MiTek

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F1A

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 11/19/2021 *BY:* CB

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
09/15/2022

Joe Frogge

Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=CoLS, DC=LOC
Date: 2021.09.15 15:44:22 -05'00'

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I48734579 thru I48734707

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 12/3/2021

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRi ARCHITECTS

9812 Manchester Road
St. Louis, Missouri 63119
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

November 10,2021

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 1 Area A Level 2

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: November 19, 2021

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753 - Shop-Fabricated Wood Trusses	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

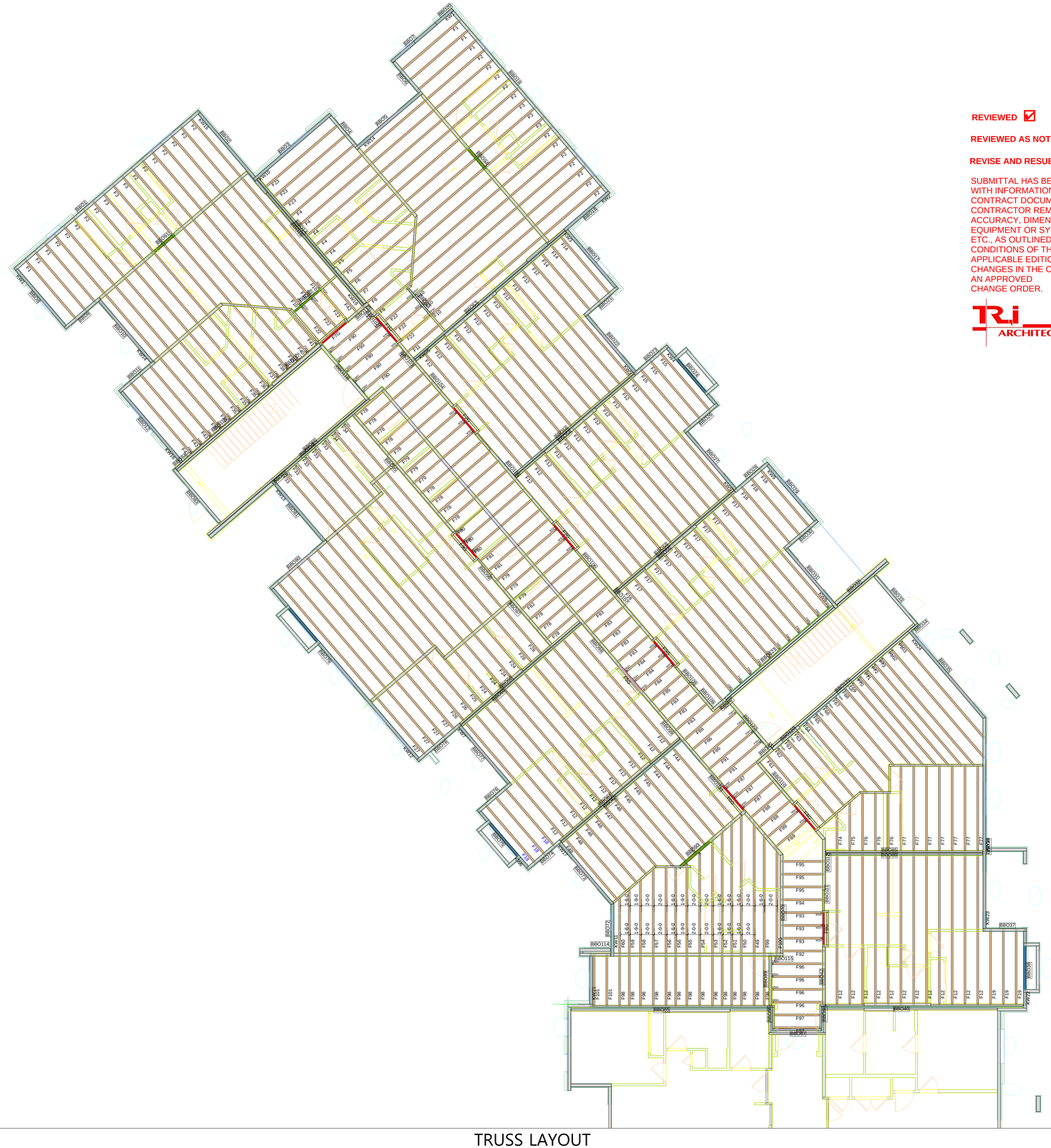
REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101



TRUSS LAYOUT
Scale: 1/8" = 1'-0

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 12/3/2021

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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TRI ARCHITECTS
9812 Manchester Road
St. Louis, Missouri 63119
314.395.9750
www.triarchitects.com

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #1 Area A
2nd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED
☐ FURNISH AS CORRECTED
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☐ RETURNED NOT REVIEWED
☒ REVIEWED
REPLY TO QUERIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE 11/19/2021 BY CB

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F1	Floor	6	1	I48734579
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:53 2021 Page 1
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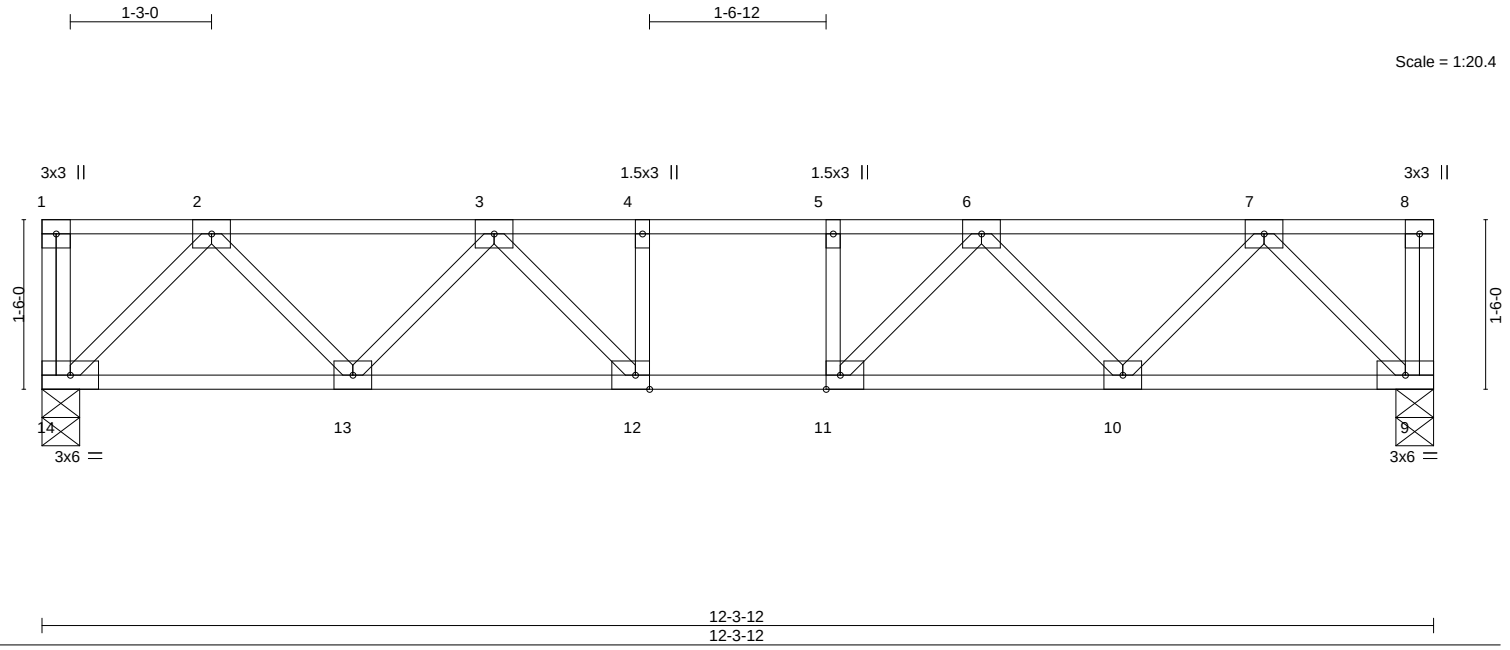

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F1G	FLOOR GIRDER	1	1	I48734580
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Y6Ac27WOCngp?VhM5i5vleOQqq0ok2UreY1XBoyKtlQ

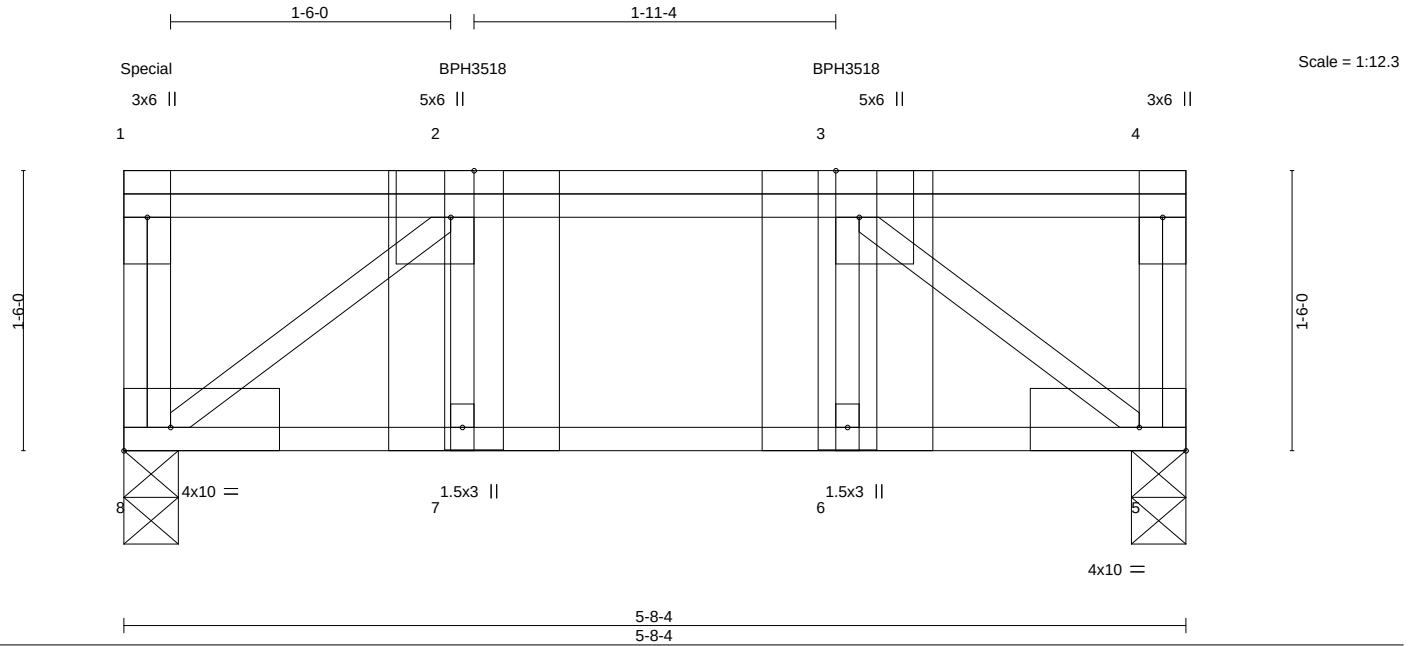

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=3228(LC 1), 5=2195(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1350/0, 4-5=-317/0, 2-3=-2407/0
BOT CHORD 7-8=0/2407, 6-7=0/2407, 5-6=0/2407
WEBS 3-5=-3049/0, 2-8=-3049/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-8 from the left end to 3-10-8 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1063 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 1=-1033(B) 3=-958(B) 2=-958(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 1=-1033(B) 3=-958(B) 2=-958(B)

November 10,2021

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734580
PRYOR-F1A	F1G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-3=-445, 3-4=-365
   Concentrated Loads (lb)
      Vert: 1=-1033(B) 3=-998(B) 2=-958(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-365, 2-4=-445
   Concentrated Loads (lb)
      Vert: 1=-1063(B) 3=-958(B) 2=-996(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-3=-445, 3-4=-365
   Concentrated Loads (lb)
      Vert: 1=-1033(B) 3=-998(B) 2=-958(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-365, 2-4=-445
   Concentrated Loads (lb)
      Vert: 1=-1063(B) 3=-958(B) 2=-996(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F2	Floor	24	1	I48734581
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:08 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1Ik_FTX0z4ogceGZfQc8IsxbNDRATcn_tCn4jFyKtlP

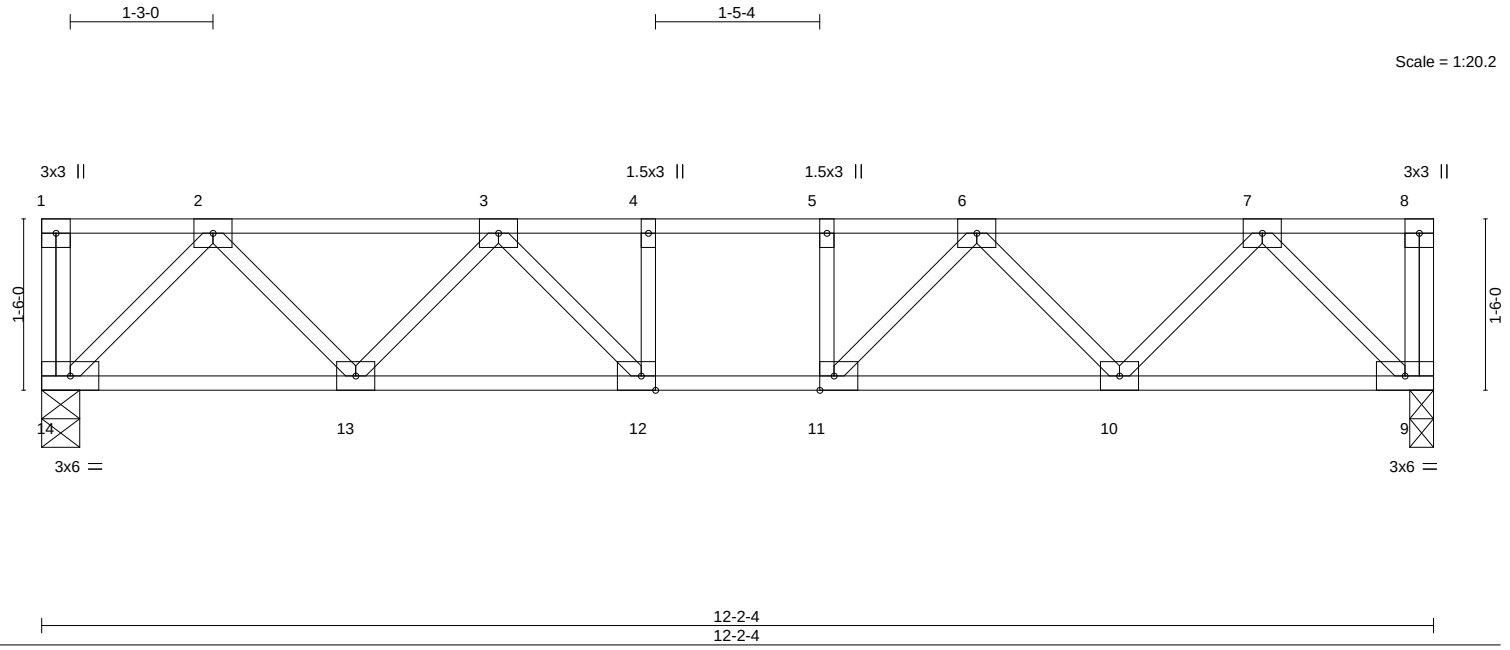

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1507, 11-12=0/1664, 10-11=0/1507, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-565/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-565/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F2G	FLOOR GIRDER	2	1	I48734582
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:22 2021 Page 1
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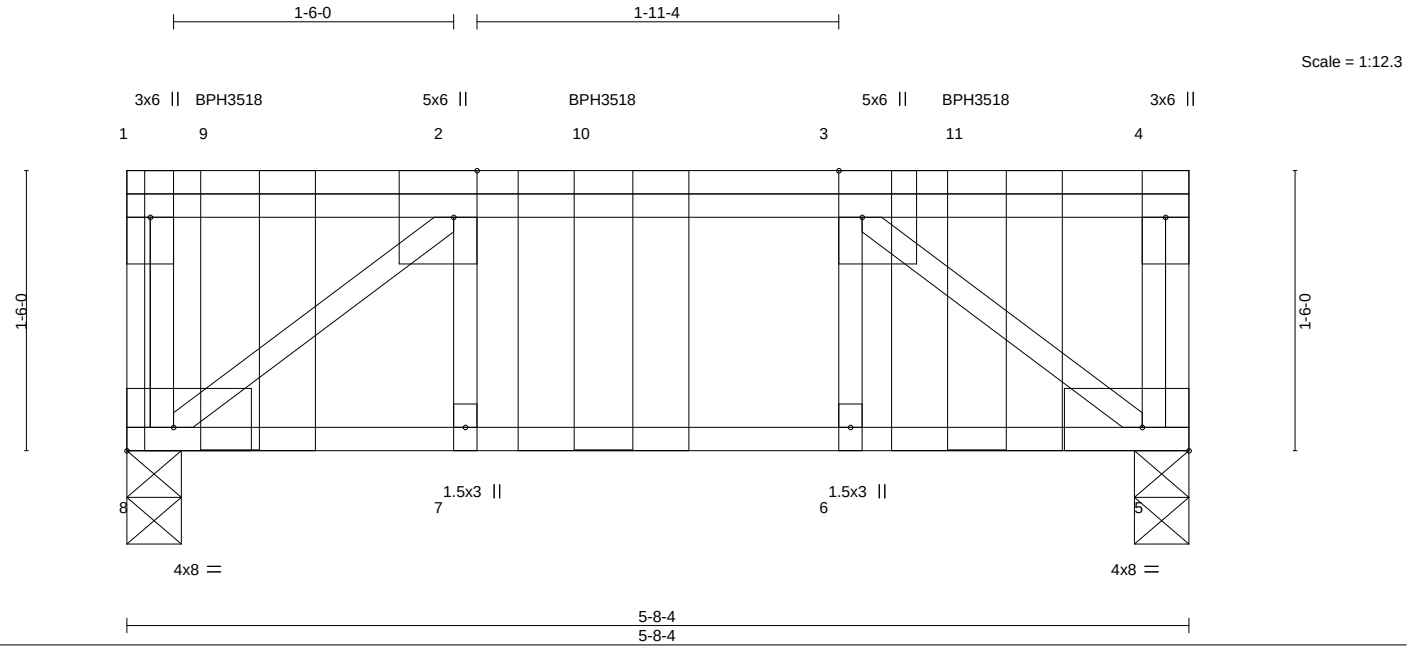

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2540(LC 1), 5=2265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-792/0, 4-5=-517/0, 2-3=-2239/0
BOT CHORD 7-8=0/2239, 6-7=0/2239, 5-6=0/2239
WEBS 3-5=-2837/0, 2-8=-2837/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-10 from the left end to 4-6-10 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-765(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-765(B)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734582
PRYOR-F1A	F2G	FLOOR GIRDER	2	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-832(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-857(B) 10=-776(B) 11=-765(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-832(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-857(B) 10=-776(B) 11=-765(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F3	Floor	6	1	I48734583
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:23 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4B8fPbiQRhhXwyvR13NgP035zGXiTOGCK1vNltyKtlA

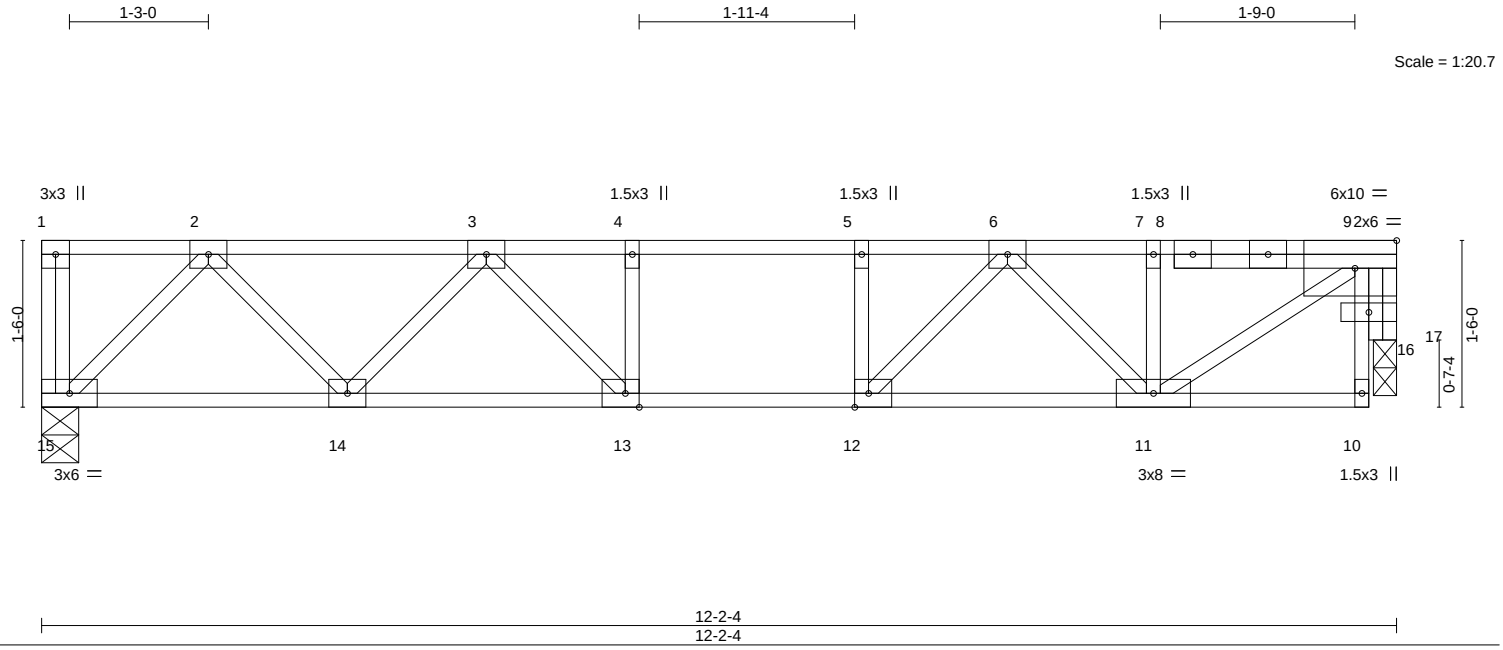

Plate Offsets (X,Y)-- [9:0-4-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 9-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=775(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1126/0, 3-4=-1646/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-967/0, 7-9=-970/0
BOT CHORD	14-15=0/719, 13-14=0/1500, 12-13=0/1646, 11-12=0/1358
WEBS	2-15=-1017/0, 2-14=0/605, 3-14=-556/0, 3-13=0/394, 6-11=-567/0, 6-12=0/537, 5-12=-302/0, 9-11=0/1071, 9-17=-774/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F3G	FLOOR GIRDER	1	1	I48734584
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:35 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kVsBwhsycNCqMoqlkbbUuYZ8I6c9Hk8z4up0AAyKtl_

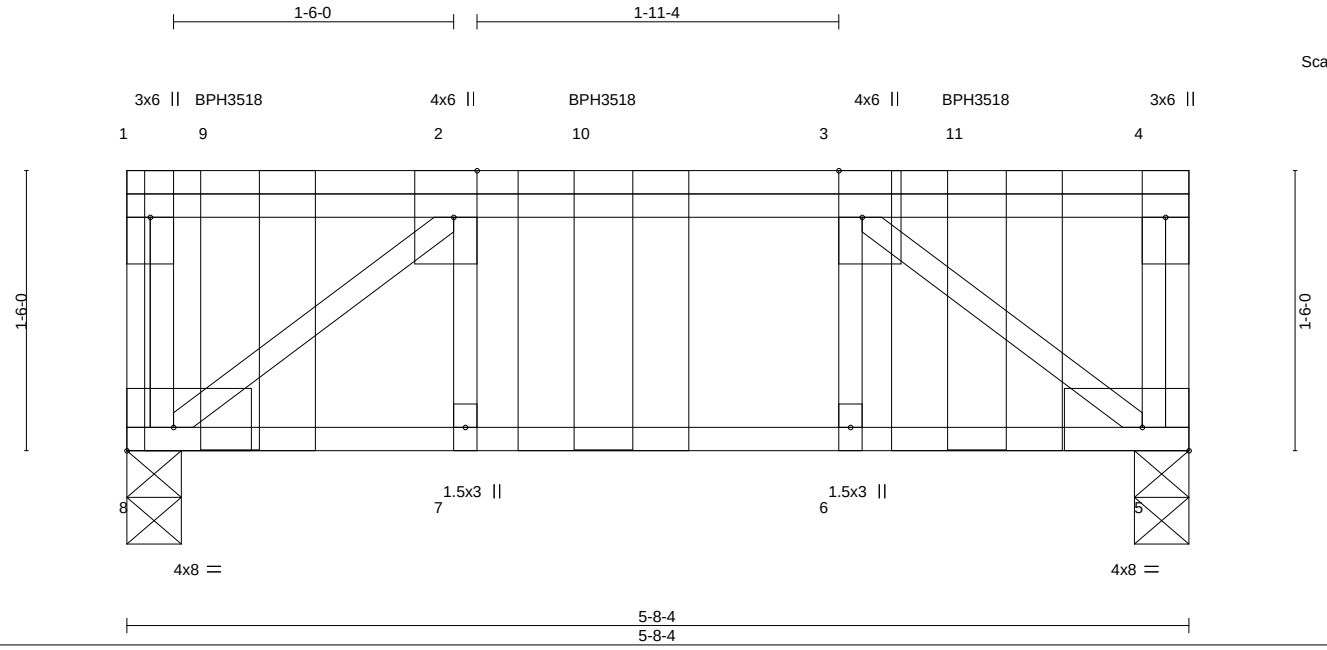

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2302(LC 1), 5=2073(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-706/0, 4-5=-477/0, 2-3=-2046/0
BOT CHORD 7-8=0/2046, 6-7=0/2046, 5-6=0/2046
WEBS 3-5=-2591/0, 2-8=-2591/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-10 from the left end to 4-6-10 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-622(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-622(B)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734584
PRYOR-F1A	F3G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-689(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-714(B) 10=-633(B) 11=-622(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-689(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-714(B) 10=-633(B) 11=-622(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F4	Floor	5	1	I48734585
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:36 2021 Page 1
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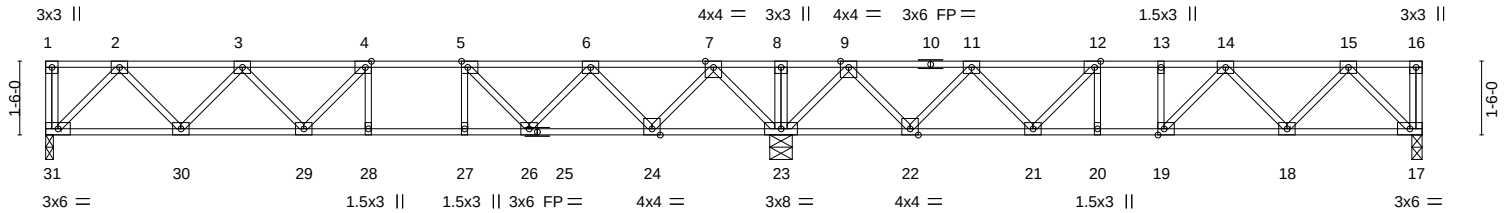

14-11-8 28-0-0
14-11-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>961	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-1-14, 17=0-2-8, 23=0-5-8
Max Grav 31=854(LC 3), 17=724(LC 4), 23=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1281/0, 3-4=-1908/0, 4-5=-1991/0, 5-6=-1546/0, 6-7=-511/318, 7-8=0/1694, 8-9=0/1694, 9-11=-386/462, 11-12=-1203/0, 12-13=-1456/0, 13-14=-1456/0, 14-15=-1028/0
BOT CHORD 30-31=0/789, 29-30=0/1753, 28-29=0/1991, 27-28=0/1991, 26-27=0/1991, 24-26=-27/1164, 23-24=-760/0, 22-23=-762/0, 21-22=-186/941, 20-21=0/1456, 19-20=0/1456, 18-19=0/1362, 17-18=0/667
WEBS 2-31=-1116/0, 2-30=0/731, 3-30=-702/0, 7-23=-1475/0, 7-24=0/1066, 6-24=-1023/0, 6-26=0/634, 5-26=-785/0, 5-27=0/284, 4-28=-256/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 15-17=-944/0, 15-18=0/536, 14-18=-497/0, 12-21=-555/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F4G	FLOOR GIRDER	1	1	I48734586
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:48 2021 Page 1
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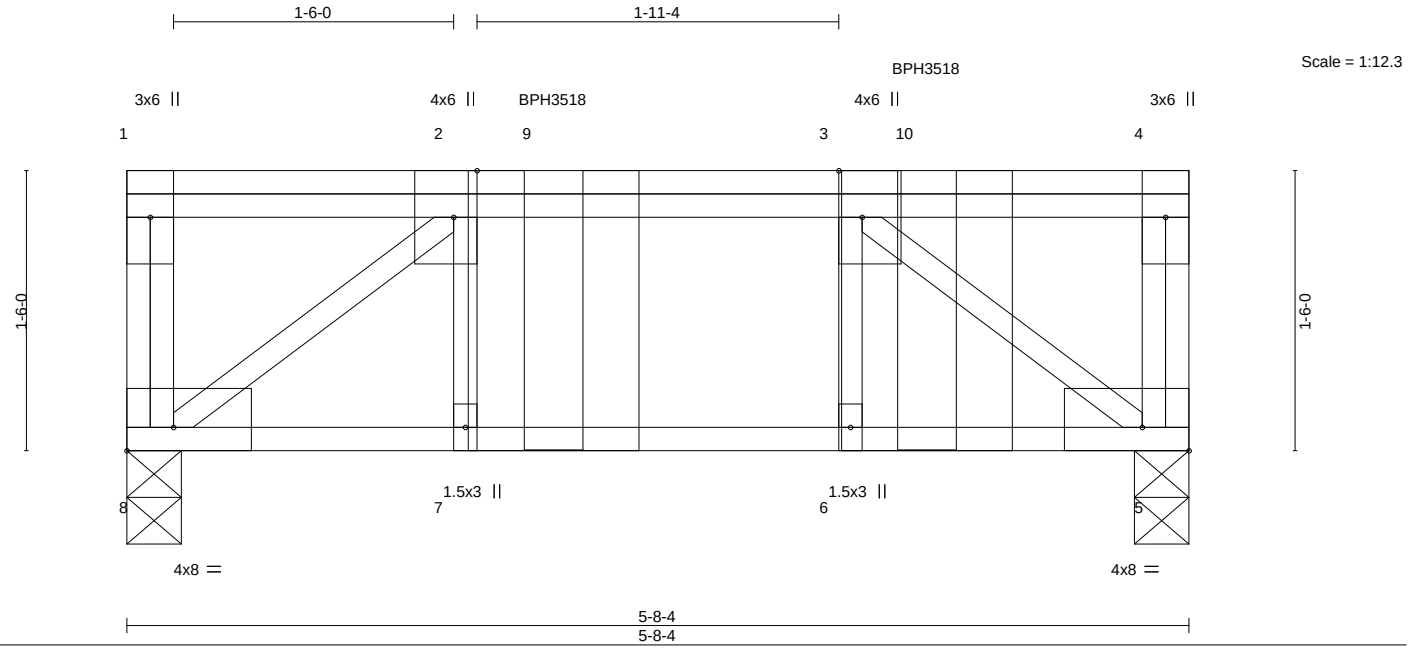

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.03	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.04	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=1806(LC 1), 5=2027(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-434/0, 2-3=-2035/0
BOT CHORD 7-8=0/2035, 6-7=0/2035, 5-6=0/2035
WEBS 3-5=-2578/0, 2-8=-2578/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-7 from the left end to 4-3-7 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(B) 10=-679(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(B) 10=-679(B)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)

November 10,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F4G	FLOOR GIRDER	1	1	I48734586 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-679(B) 10=-736(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-701(B) 10=-679(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(B) 10=-736(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-701(B) 10=-679(B)

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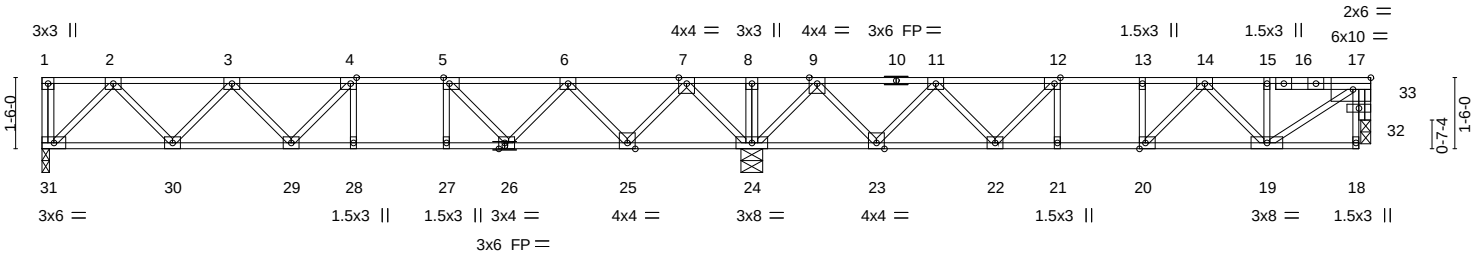
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F5	Floor	2	1	I48734587
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:51 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GaqEHA2_rIDZHF2qgytEXwDsPZ?g1?_JmOhskFyKtkk

1-3-0 1-10-0 1-8-0 1-9-0

Scale = 1:48.6



14-11-8 28-0-0
14-11-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>959	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-1-14, 24=0-5-8, 33=0-2-8
Max Grav 31=860(LC 3), 24=2124(LC 1), 33=698(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1293/0, 3-4=-1933/0, 4-5=-2027/0, 5-6=-1593/0, 6-7=-569/341, 7-8=0/1656, 8-9=0/1656, 9-11=-362/406, 11-12=-1183/0, 12-13=-1432/0, 13-14=-1432/0, 14-15=-884/0, 15-17=-888/0
BOT CHORD	30-31=0/796, 29-30=0/1771, 28-29=0/2027, 27-28=0/2027, 26-27=0/2027, 25-26=-47/1217, 24-25=-726/0, 23-24=-772/0, 22-23=-139/920, 21-22=0/1432, 20-21=0/1432, 19-20=0/1227
WEBS	2-31=-1125/0, 2-30=0/740, 3-30=-710/0, 4-28=-258/0, 7-24=-1477/0, 7-25=0/1068, 6-25=-1025/0, 6-26=0/636, 5-26=-789/0, 5-27=0/286, 17-19=0/977, 9-24=-1329/0, 9-23=0/936, 11-23=-902/0, 11-22=0/484, 12-22=-550/0, 14-19=-497/0, 14-20=-53/296, 17-33=-718/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F5G	FLOOR GIRDER	1	1	I48734588
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VJteAF9dj3LHseEYiLYLOp5QaB8ce2feqHNqYEyKtkb

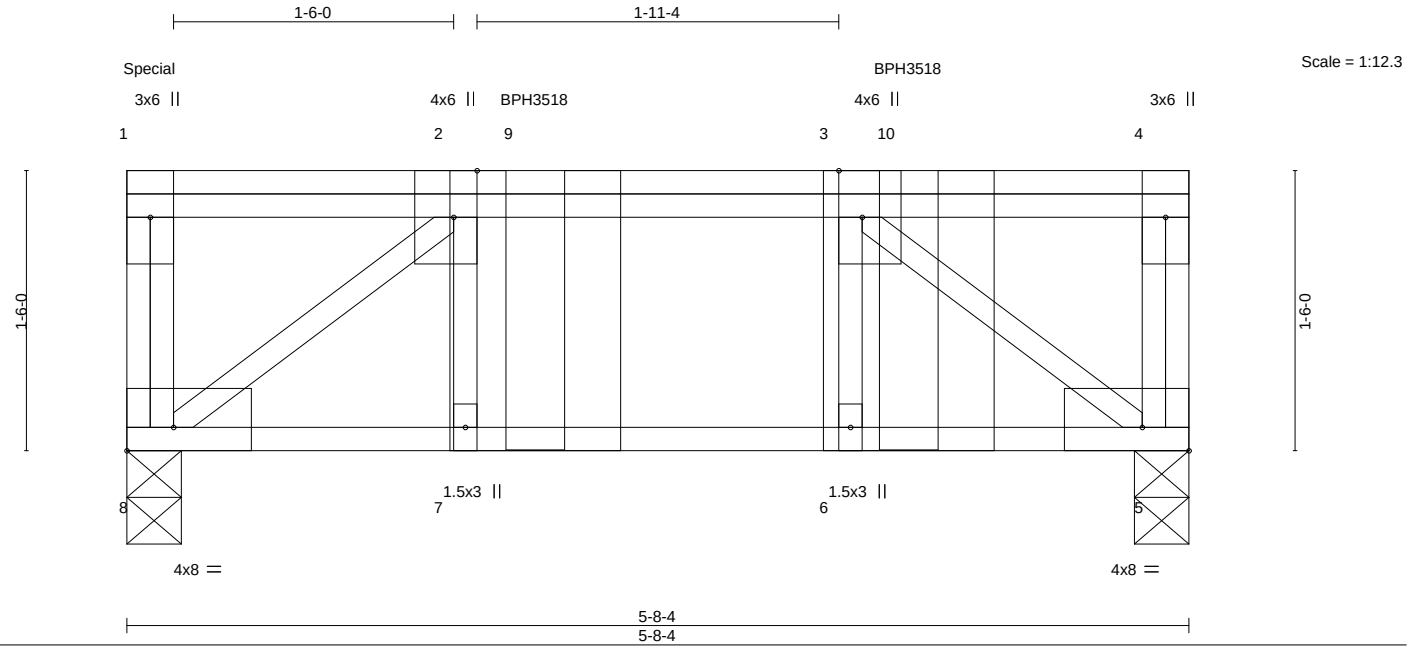

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.03	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2459(LC 1), 5=1938(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-922/0, 4-5=-393/0, 2-3=-1975/0
BOT CHORD 7-8=0/1975, 6-7=0/1975, 5-6=0/1975
WEBS 3-5=-2503/0, 2-8=-2503/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-4 from the left end to 4-2-4 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 721 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-678(F) 9=-622(F) 10=-622(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-678(F) 9=-622(F) 10=-622(F)

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734588
PRYOR-F1A	F5G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-678(F) 9=-622(F) 10=-675(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-721(F) 9=-647(F) 10=-622(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-678(F) 9=-622(F) 10=-675(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-721(F) 9=-647(F) 10=-622(F)

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MiTek
16023 Swingley Ridge Rd
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Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F6	Floor	1	1	I48734589
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Rh?OawBuFgc?5xOxqlapUEAf0?l56_DxIbsxd6yKtkZ

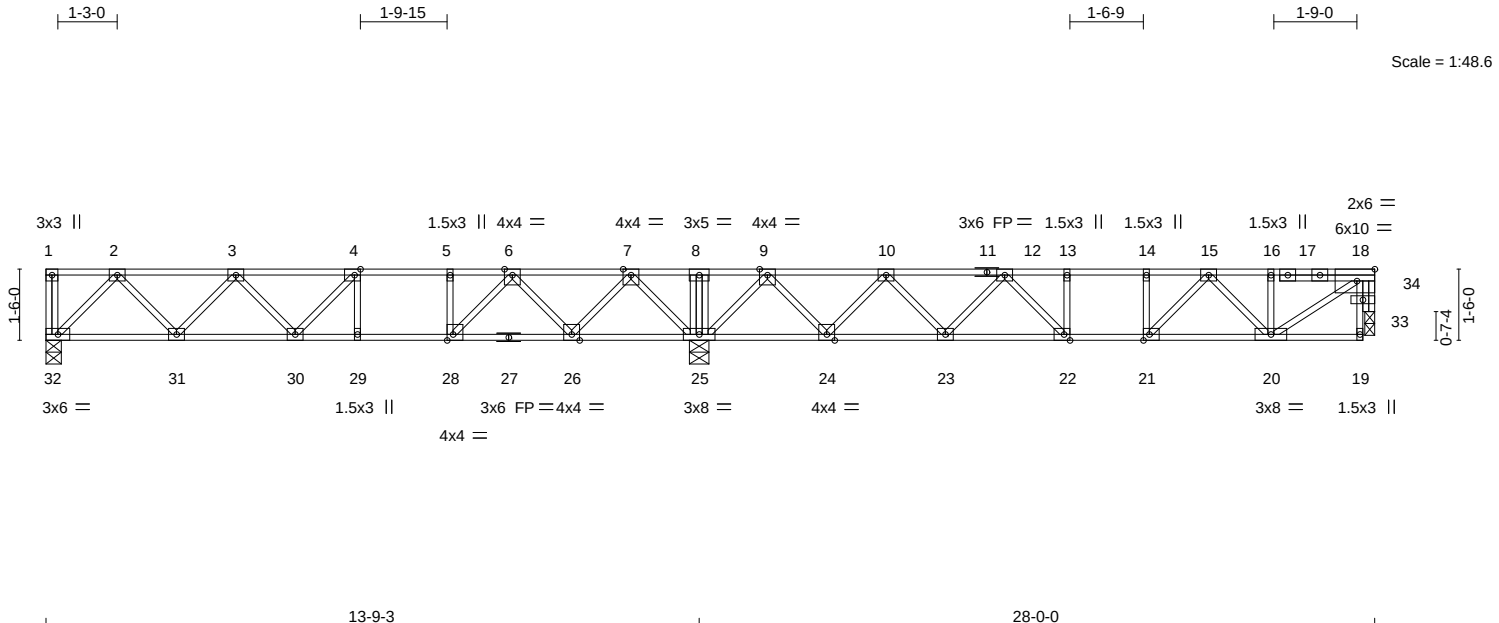

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.13	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.20	29-30	>800	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. (size) 32=0-3-14, 25=0-4-15, 34=0-2-8
Max Grav 32=802(LC 3), 25=2096(LC 1), 34=781(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1182/0, 3-4=-1712/0, 4-5=-1701/0, 5-6=-1701/0, 6-7=-665/458, 7-8=0/1583, 8-9=0/1583, 9-10=-484/132, 10-12=-1433/0, 12-13=-1761/0, 13-14=-1761/0, 14-15=-1761/0, 15-16=-1006/0, 16-18=-1009/0
BOT CHORD	31-32=0/734, 30-31=0/1613, 29-30=0/1701, 28-29=0/1701, 26-28=-146/1245, 25-26=-751/109, 24-25=-551/0, 23-24=0/1102, 22-23=0/1723, 21-22=0/1761, 20-21=0/1429
WEBS	2-32=-1039/0, 2-31=0/665, 3-31=-641/0, 4-30=0/283, 4-29=-294/0, 7-25=-1373/0, 7-26=0/904, 6-26=-965/0, 6-28=0/885, 5-28=-395/0, 18-20=0/1116, 15-20=-612/0, 15-21=0/490, 14-21=-282/0, 9-25=-1427/0, 9-24=0/999, 10-24=-976/0, 10-23=0/545, 12-23=-497/0, 12-22=-13/348, 18-34=-803/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F6G	FLOOR GIRDER	1	1	I48734590
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:11 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hQ2oT?IX7RkkgKagr8EwL82G_dtfj?BGMVXvR5yKtkQ

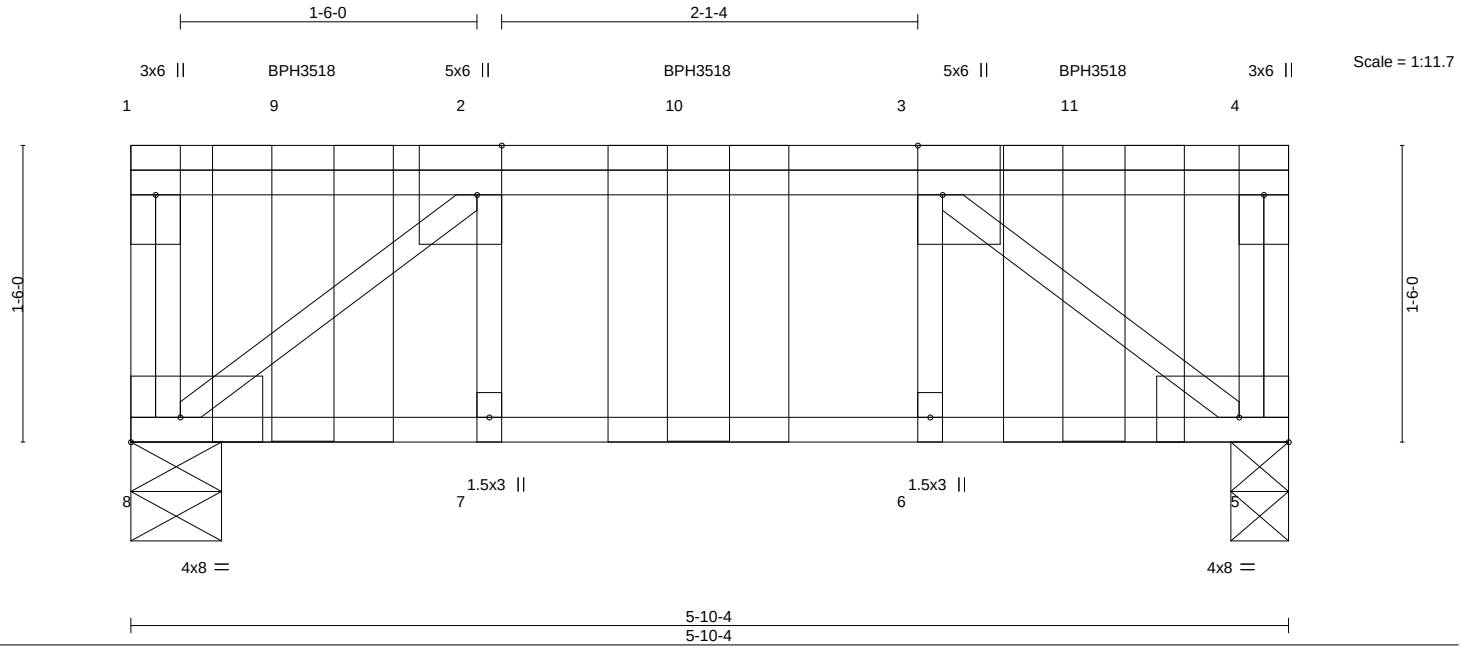

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=2306(LC 1), 5=2260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-567/0, 4-5=-521/0, 2-3=-2228/0
BOT CHORD 7-8=0/2228, 6-7=0/2228, 5-6=0/2228
WEBS 3-5=-2823/0, 2-8=-2823/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-7 from the left end to 4-10-7 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-672(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-672(F)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)

November 10,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F6G	FLOOR GIRDER	1	1	I48734590 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-740(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-747(F) 10=-664(F) 11=-672(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-740(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-747(F) 10=-664(F) 11=-672(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F7	Floor	1	1	I48734591
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:12 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9cbAhLI9ulsaIU9sPsl9uLbRx1CsSUKPb9HTzXyKtkP

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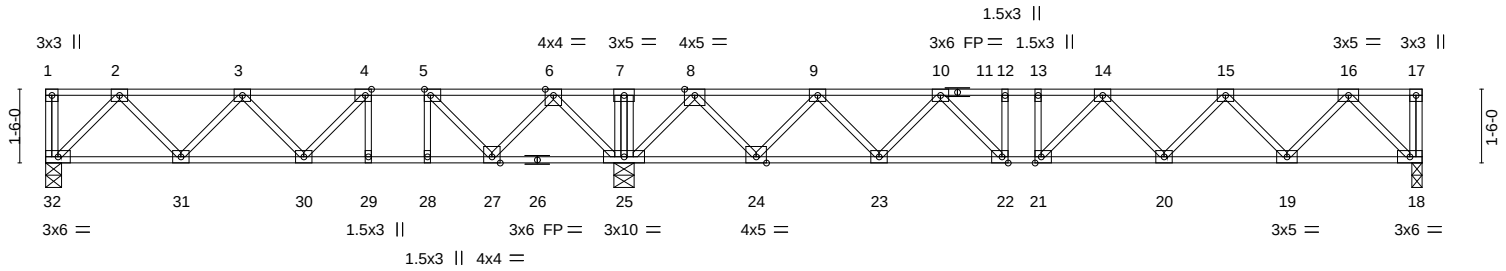

11-9-3 28-0-0
11-9-3 16-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.11	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.17	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
18-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-3-14, 18=0-2-8, 25=0-4-15
Max Grav 32=646(LC 3), 18=909(LC 4), 25=2180(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-885/0, 3-4=-1132/117, 4-5=-976/387, 5-6=-384/817, 6-7=0/1828, 7-8=0/1828, 8-9=-328/133, 9-10=-1547/0, 10-12=-2251/0, 12-13=-2251/0, 13-14=-2251/0, 14-15=-2121/0, 15-16=-1382/0
BOT CHORD 31-32=0/579, 30-31=0/1174, 29-30=-387/976, 28-29=-387/976, 27-28=-387/976, 25-27=-1161/0, 24-25=-662/0, 23-24=0/1084, 22-23=0/1995, 21-22=0/2251, 20-21=0/2315, 19-20=0/1895, 18-19=0/847
WEBS 2-32=-819/0, 2-31=-9/455, 3-31=-430/35, 3-30=-264/0, 4-30=0/522, 4-29=-412/0, 6-25=-1248/0, 6-27=0/891, 5-27=-1075/0, 5-28=0/431, 16-18=-1198/0, 16-19=0/796, 15-19=-762/0, 15-20=0/337, 14-20=-288/0, 8-25=-1614/0, 8-24=0/1182, 9-24=-1152/0, 9-23=0/714, 10-23=-694/0, 10-22=0/545, 14-21=-306/136, 12-22=-262/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F7G	FLOOR GIRDER	1	1	I48734592
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:22 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sYCynmQRXq7AV0wn_yxVIS?FH3iNo2rtuii?KyyKtkF

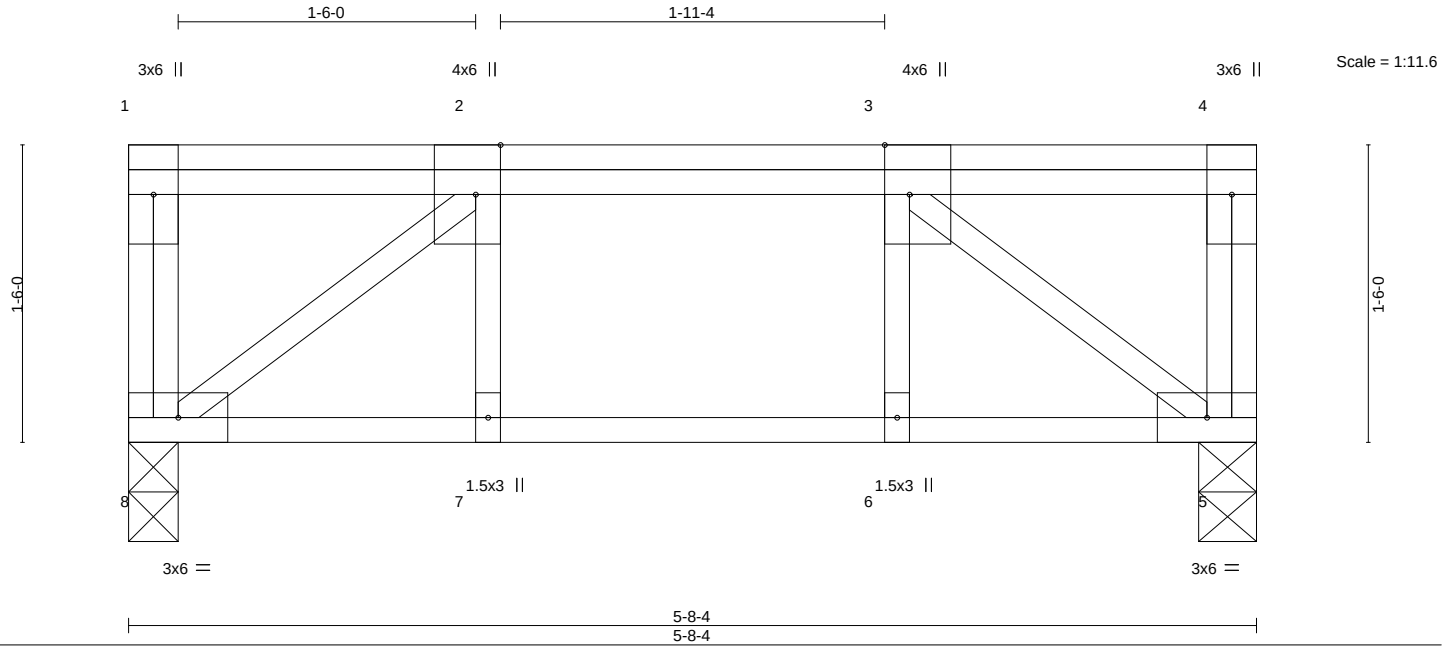

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.02	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 5=0-3-8
Max Grav 8=1237(LC 1), 5=1237(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-308/0, 4-5=-308/0, 2-3=-1197/0
BOT CHORD 7-8=0/1197, 6-7=0/1197, 5-6=0/1197
WEBS 3-5=-1517/0, 2-8=-1517/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734592
PRYOR-F1A	F7G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

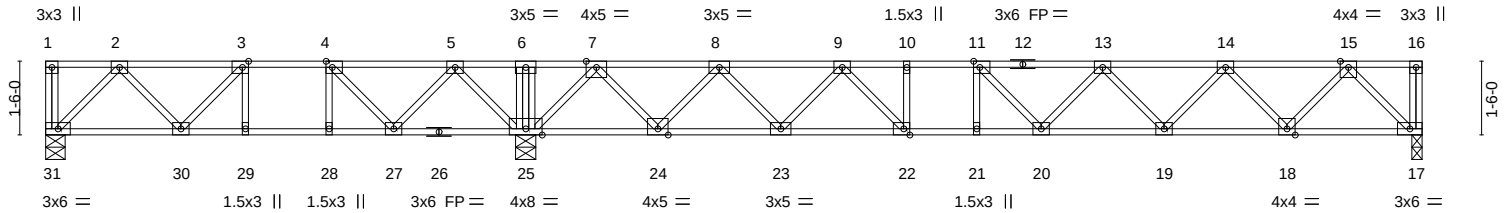
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F8	Floor	1	1	I48734593
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:23 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KkmL?6R3I7F16AUzYgSkqgYIlSwHXR017MRYsOyKtkE

1-3-0 1-6-15 1-3-9

Scale = 1:46.9



9-9-3 28-0-0
9-9-3 18-2-13

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.29	20-21	>752	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-12, 17=0-2-8, 25=0-4-15
Max Grav 31=517(LC 3), 17=1077(LC 7), 25=2149(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-629/64, 3-4=-718/285, 4-5=-301/693, 5-6=0/1697, 6-7=0/1697, 7-8=-816/0, 8-9=-2186/0, 9-10=-3145/0, 10-11=-3145/0, 11-13=-3190/0, 13-14=-2749/0, 14-15=-1703/0
BOT CHORD 30-31=0/476, 29-30=-285/718, 28-29=-285/718, 27-28=-285/718, 25-27=-1007/0, 24-25=-426/0, 23-24=0/1650, 22-23=0/2739, 21-22=0/3145, 20-21=0/3145, 19-20=0/3126, 18-19=0/2361, 17-18=0/1018
WEBS 2-31=-673/0, 3-30=-129/319, 5-25=-1071/0, 5-27=0/722, 4-27=-868/0, 4-28=0/295, 3-29=-268/0, 7-25=-1759/0, 7-24=0/1323, 8-24=-1280/0, 8-23=0/835, 9-23=-872/0, 9-22=0/784, 15-17=-1440/0, 15-18=0/1019, 14-18=-977/0, 14-19=0/578, 13-19=-560/0, 11-20=-193/314, 11-21=-321/0, 10-22=-297/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F8G	FLOOR GIRDER	1	1	I48734594
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:32 2021 Page 1
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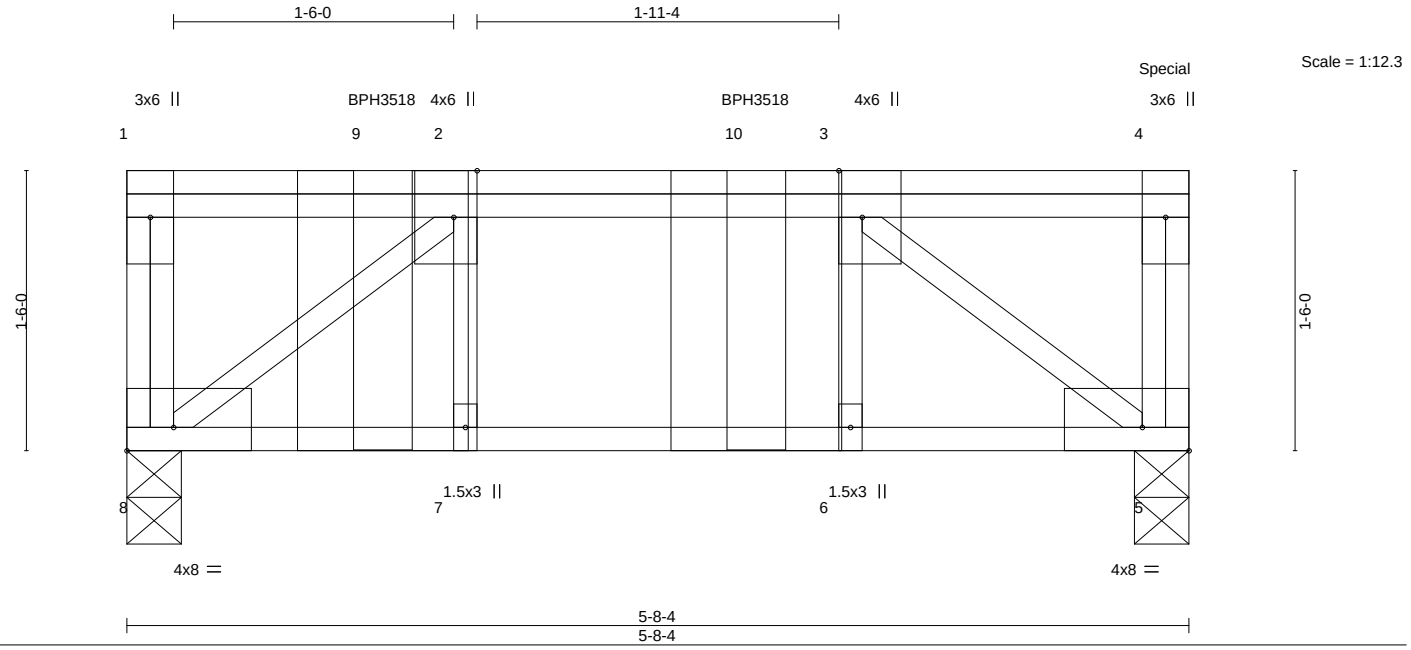

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2018(LC 1), 5=2500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-441/0, 4-5=-935/0, 2-3=-2013/0
BOT CHORD 7-8=0/2013, 6-7=0/2013, 5-6=0/2013
WEBS 3-5=-2551/0, 2-8=-2551/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-7 from the left end to 3-4-7 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 761 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-714(B) 9=-665(B) 10=-665(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-714(B) 9=-665(B) 10=-665(B)

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	I48734594
PRYOR-F1A	F8G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-761(B) 9=-665(B) 10=-685(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-714(B) 9=-723(B) 10=-665(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-761(B) 9=-665(B) 10=-685(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-714(B) 9=-723(B) 10=-665(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F9	Floor	1	1	I48734595
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VrwVItZyjWeTxsq4hU9Jn_V8Lui8cO7ffacdlGyKtk3

1-3-0 0-10-15 1-9-9

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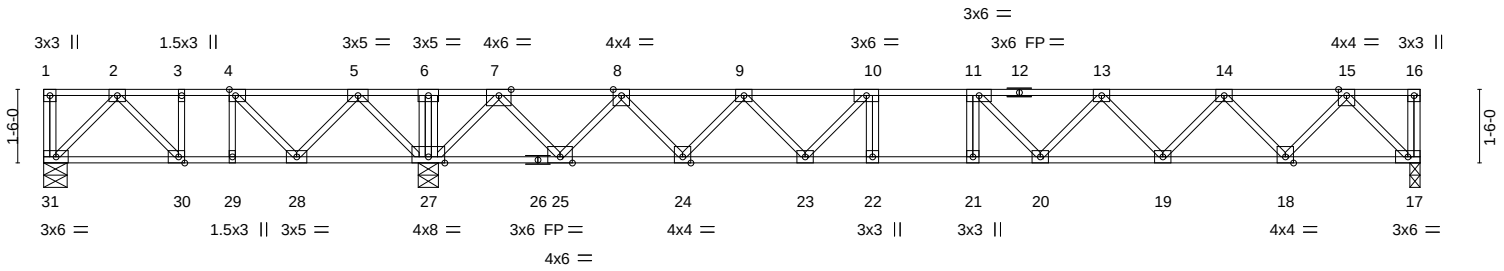

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-10-3 28-1-0
7-10-3 20-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.24	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.39	20-21	>618	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 158 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 27=0-4-15
Max Uplift 31=-203(LC 4)
Max Grav 31=307(LC 3), 17=1155(LC 7), 27=2401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-239/652, 3-4=-239/652, 4-5=0/1205, 5-6=0/2394, 6-7=0/2394, 7-8=-260/104, 8-9=-1989/0, 9-10=-3103/0, 10-11=-3653/0, 11-13=-3621/0, 13-14=-3039/0, 14-15=-1851/0
BOT CHORD 29-30=-652/239, 28-29=-652/239, 27-28=-1657/0, 25-27=-952/0, 24-25=0/1268, 23-24=0/2675, 22-23=0/3653, 21-22=0/3653, 20-21=0/3653, 19-20=0/3487, 18-19=0/2579, 17-18=0/1096
WEBS 2-31=-326/341, 2-30=-594/12, 5-27=-1189/0, 5-28=0/829, 4-28=-942/0, 4-29=0/290, 3-30=-17/265, 7-27=-1995/0, 7-25=0/1538, 8-25=-1517/0, 8-24=0/1091, 9-24=-1036/0, 9-23=0/676, 10-23=-938/0, 15-17=-1550/0, 15-18=0/1123, 14-18=-1082/0, 14-19=0/683, 13-19=-666/0, 13-20=0/311, 11-20=-326/248, 11-21=-333/54, 10-22=-22/366

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=203.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F9G	FLOOR GIRDER	1	1	I48734596
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GOPW_cgzqzeKu5Rd99IB5gqg87TSU0MqUqY20oyKtjx

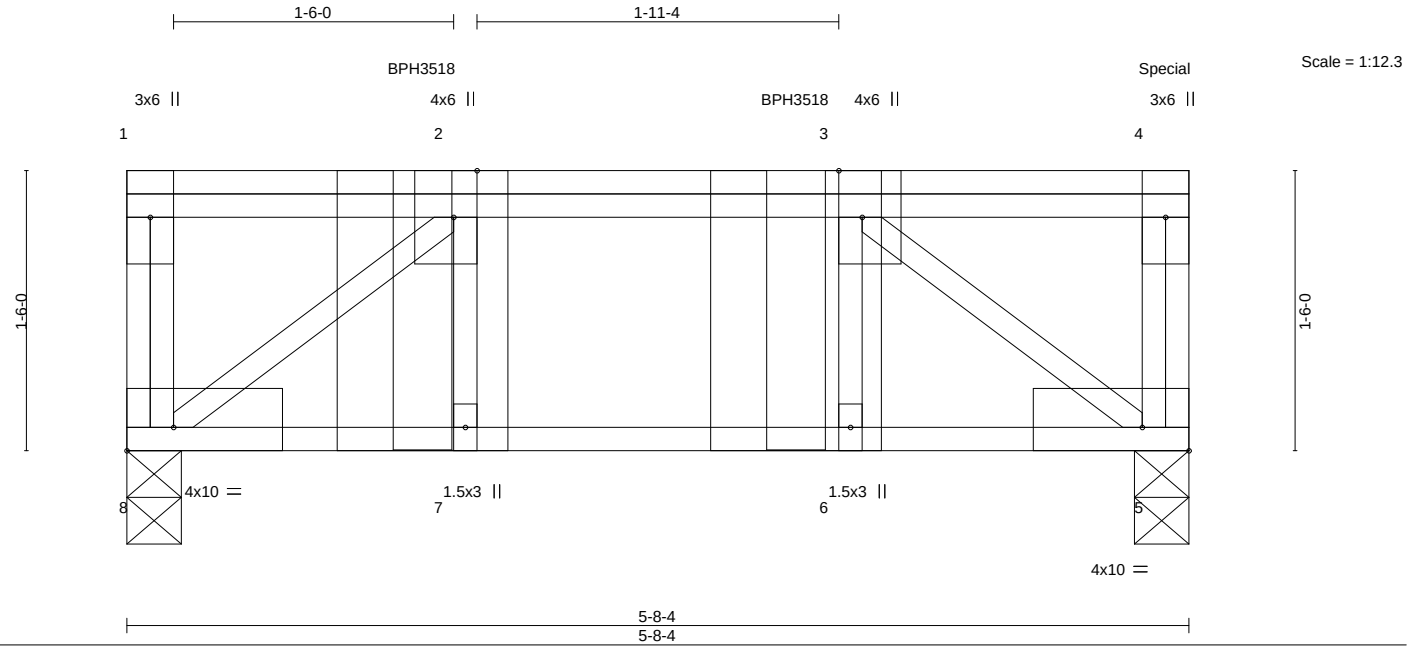

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=1970(LC 1), 5=2763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-315/0, 4-5=-1106/0, 2-3=-2122/0
BOT CHORD 7-8=0/2122, 6-7=0/2122, 5-6=0/2122
WEBS 3-5=-2689/0, 2-8=-2689/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-0 from the left end to 3-7-0 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 833 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-794(F) 3=-733(F) 2=-733(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-794(F) 3=-733(F) 2=-733(F)

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F9G	FLOOR GIRDER	1	1	I48734596 Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-833(F) 3=-761(F) 2=-733(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-794(F) 3=-733(F) 2=-782(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-833(F) 3=-761(F) 2=-733(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-794(F) 3=-733(F) 2=-782(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F10	Floor	6	1	I48734597
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:54 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-RcuhJgMEGn1fxVBsrTMsjvM5aaY1BAOxf0OLE3yKtld

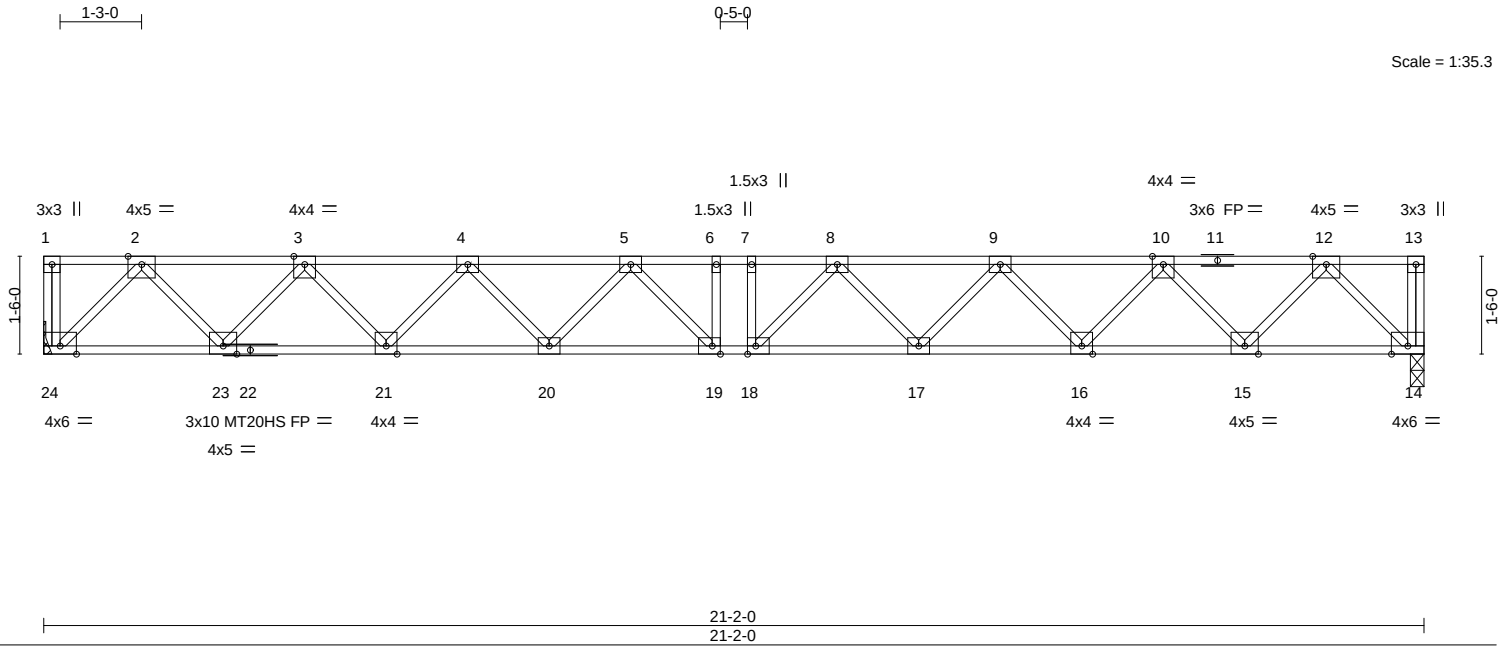

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	19	>727	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.56	19	>447	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 24=Mechanical, 14=0-2-8
Max Grav 24=1360(LC 1), 14=1360(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2241/0, 3-4=-3797/0, 4-5=-4755/0, 5-6=-5156/0, 6-7=-5156/0, 7-8=-5156/0, 8-9=-4755/0, 9-10=-3797/0, 10-12=-2241/0
BOT CHORD 23-24=0/1298, 21-23=0/3158, 20-21=0/4415, 19-20=0/5071, 18-19=0/5156, 17-18=0/5071, 16-17=0/4415, 15-16=0/3158, 14-15=0/1298
WEBS 2-24=-1836/0, 2-23=0/1402, 3-23=-1363/0, 3-21=0/950, 4-21=-919/0, 4-20=0/505, 5-20=-478/0, 12-14=-1836/0, 12-15=0/1402, 10-15=-1363/0, 10-16=0/950, 9-16=-919/0, 9-17=0/505, 8-17=-478/0, 8-18=-204/412, 5-19=-204/412

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F11	Floor	1	1	I48734598
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:59 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-nahaMOQN4Jgx1G3qd1y1Qy3xrbHbsPcgpI56vGyKtlY

1-3-0 1-1-8 0-8-8

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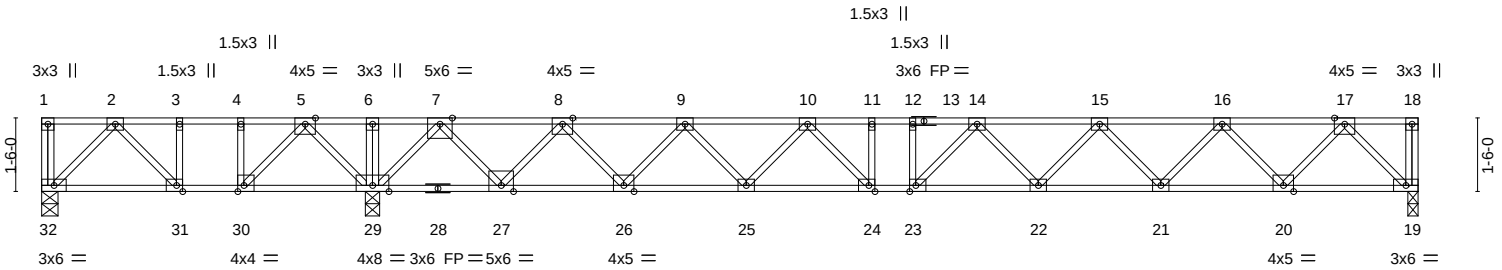

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-9-0 6-9-0 28-1-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	22-23	>977	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.42	22-23	>603	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-4 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-363(LC 4)
Max Grav 32=213(LC 3), 19=1216(LC 7), 29=2517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1070, 3-4=0/1070, 4-5=0/1070, 5-6=0/2631, 6-7=0/2631, 8-9=-1976/0, 9-10=-3254/0, 10-11=-4051/0, 11-12=-4051/0, 12-14=-4051/0, 14-15=-3969/0, 15-16=-3263/0, 16-17=-1969/0
BOT CHORD 31-32=-390/138, 30-31=-1070/0, 29-30=-1896/0, 27-29=-1171/0, 26-27=0/1174, 25-26=0/2756, 24-25=0/3740, 23-24=0/4051, 22-23=0/4147, 21-22=0/3753, 20-21=0/2755, 19-20=0/1155
WEBS 2-32=-195/552, 2-31=-984/0, 3-31=0/548, 5-29=-1208/0, 5-30=0/1356, 4-30=-764/0, 7-29=-2065/0, 7-27=0/1673, 8-27=-1624/0, 8-26=0/1207, 9-26=-1173/0, 9-25=0/753, 10-25=-738/0, 10-24=0/679, 17-19=-1634/0, 17-20=0/1209, 16-20=-1169/0, 16-21=0/754, 15-21=-728/0, 15-22=0/346, 14-22=-319/0, 14-23=-402/232, 11-24=-342/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 32=363.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F12	FLOOR	48	1	I48734599
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:01 2021 Page 1
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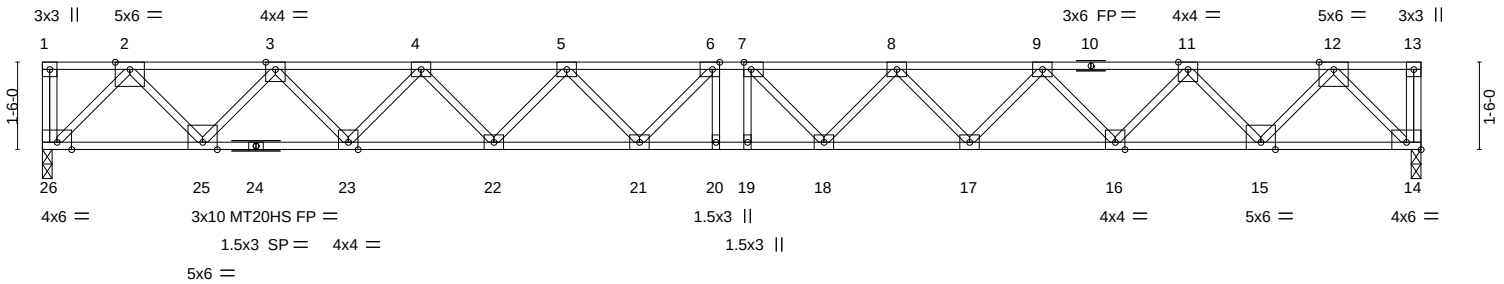

23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>615	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.74	20	>378	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-4399/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5659/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 23-25=0/3616, 22-23=0/5162, 21-22=0/6131, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2064/0, 2-25=0/1622, 3-25=-1583/0, 3-23=0/1164, 4-23=-1135/0, 4-22=0/738, 5-22=-702/0, 5-21=-33/457, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F14	FLOOR	3	1	I48734600
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-C9Nj?PSFNE2WujoPJ9Vk2bhaUpOF3uP6VGKmWbyKtlV

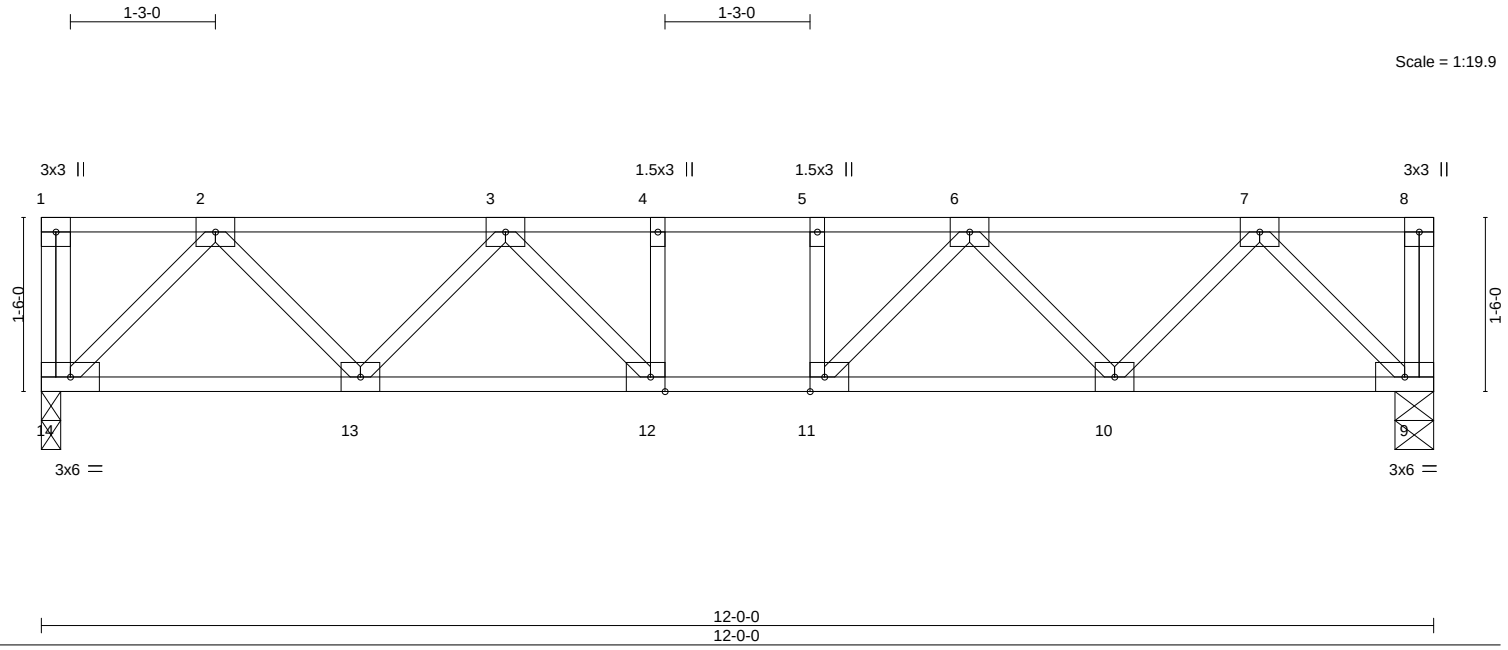

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=764(LC 1), 9=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1104/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1104/0
BOT CHORD 13-14=0/708, 12-13=0/1473, 11-12=0/1615, 10-11=0/1473, 9-10=0/708
WEBS 2-14=-1001/0, 2-13=0/589, 3-13=-548/0, 3-12=0/360, 7-9=-1001/0, 7-10=0/589, 6-10=-548/0, 6-11=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F15	Floor	3	1	I48734601
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-C9Nj?PSFNE2WujoPJ9Vk2bhZ1pOr3uJ6VGKmWbyKtlV

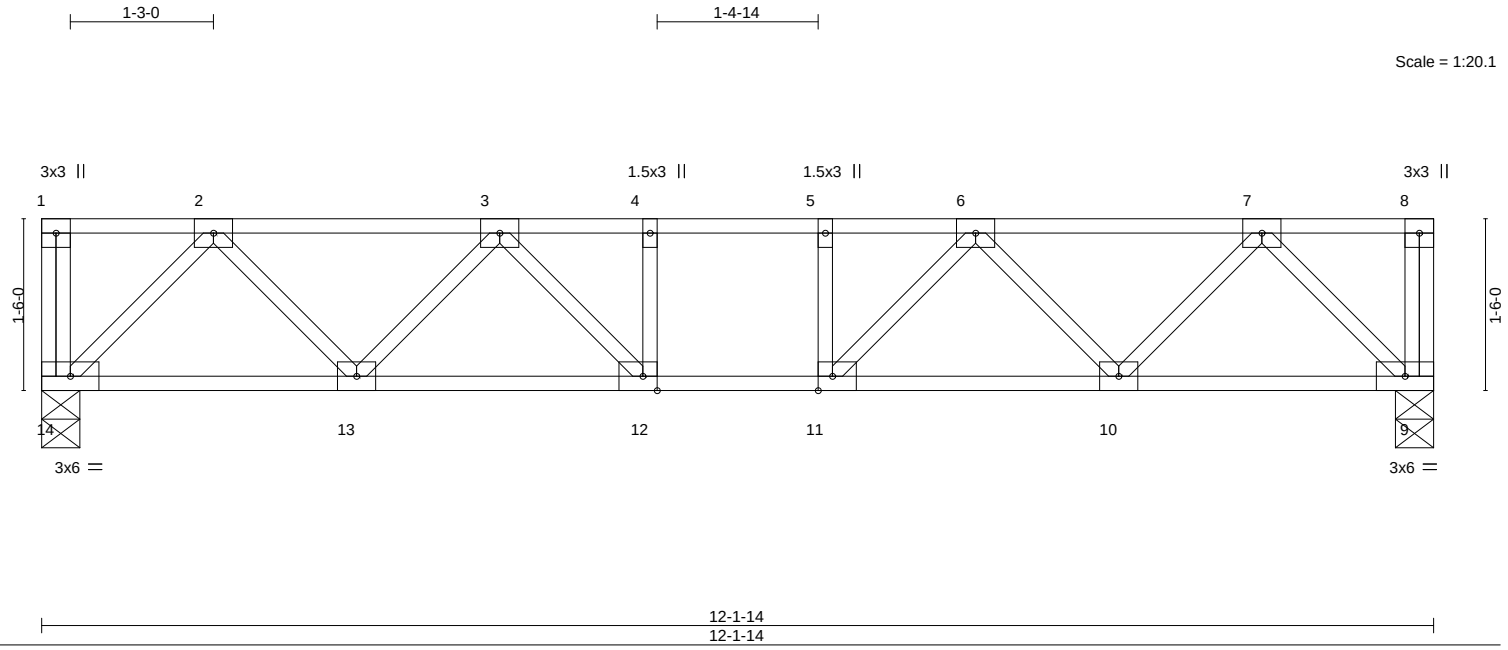

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=774(LC 1), 9=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1123/0, 3-4=-1655/0, 4-5=-1655/0, 5-6=-1655/0, 6-7=-1123/0
BOT CHORD 13-14=0/718, 12-13=0/1501, 11-12=0/1655, 10-11=0/1501, 9-10=0/718
WEBS 2-14=-1015/0, 2-13=0/602, 3-13=-562/0, 3-12=0/383, 7-9=-1015/0, 7-10=0/602, 6-10=-562/0, 6-11=0/383

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F16	FLOOR	1	1	I48734602
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:04 2021 Page 1
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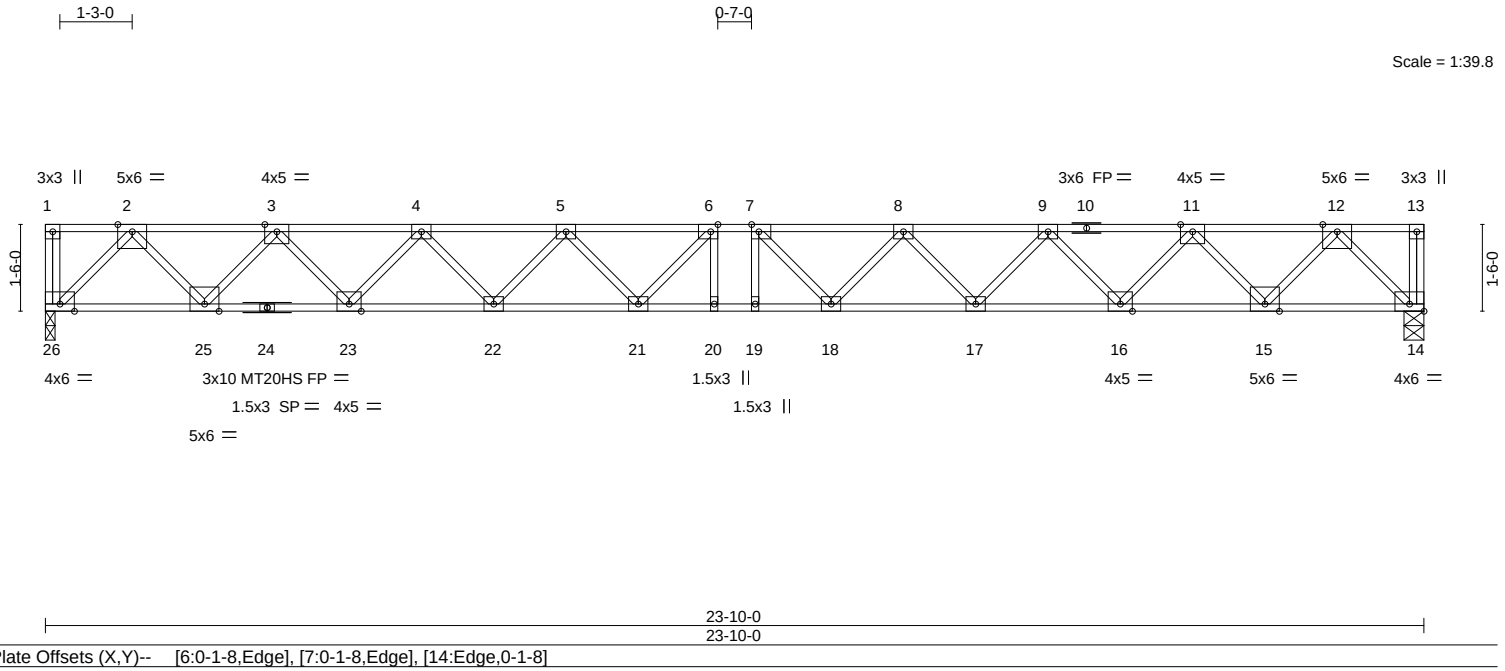

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.47	20	>602	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.76	20	>370	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-2-0, 14=0-4-2
Max Grav 26=1533(LC 1), 14=1533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2572/0, 3-4=-4439/0, 4-5=-5718/0, 5-6=-6396/0, 6-7=-6583/0, 7-8=-6396/0, 8-9=-5719/0, 9-11=-4440/0, 11-12=-2571/0
BOT CHORD 25-26=0/1471, 23-25=0/3646, 22-23=0/5212, 21-22=0/6201, 20-21=0/6583, 19-20=0/6583, 18-19=0/6583, 17-18=0/6201, 16-17=0/5213, 15-16=0/3646, 14-15=0/1471
WEBS 2-26=-2080/0, 2-25=0/1637, 3-25=-1597/0, 3-23=0/1179, 4-23=-1149/0, 4-22=0/753, 5-22=-717/0, 5-21=-20/472, 6-21=-542/135, 12-14=-2080/0, 12-15=0/1636, 11-15=-1598/0, 11-16=0/1180, 9-16=-1149/0, 9-17=0/752, 8-17=-717/0, 8-18=-20/472, 7-18=-542/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F17	FLOOR	11	1	I48734603
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:05 2021 Page 1
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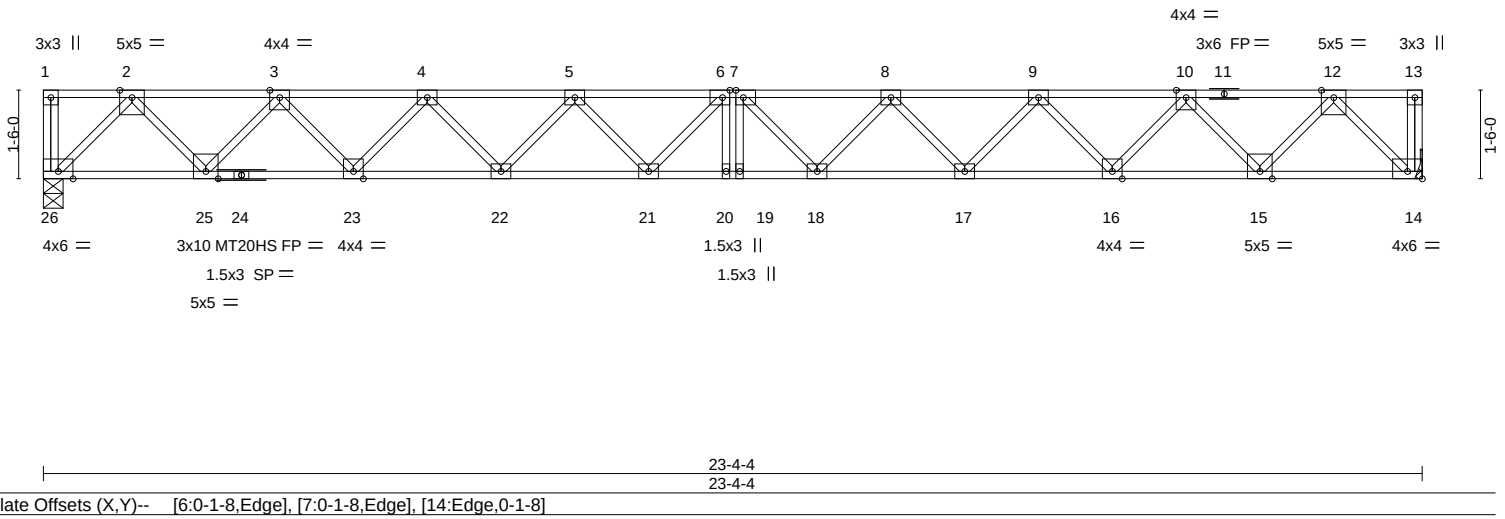

23-4-4
23-4-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.43	20	>642	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.70	20	>395	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-4-0, 14=Mechanical
Max Grav 26=1502(LC 1), 14=1502(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2512/0, 3-4=-4324/0, 4-5=-5545/0, 5-6=-6170/0, 6-7=-6332/0, 7-8=-6170/0, 8-9=-5545/0, 9-10=-4325/0, 10-12=-2512/0
BOT CHORD 25-26=0/1439, 23-25=0/3559, 22-23=0/5069, 21-22=0/5998, 20-21=0/6332, 19-20=0/6332, 18-19=0/6332, 17-18=0/5998, 16-17=0/5068, 15-16=0/3559, 14-15=0/1439
WEBS 2-26=-2036/0, 2-25=0/1595, 3-25=-1555/0, 3-23=0/1137, 4-23=-1107/0, 4-22=0/709, 5-22=-673/0, 5-21=-58/434, 6-21=-454/123, 6-20=-258/269, 12-14=-2036/0, 12-15=0/1595, 10-15=-1557/0, 10-16=0/1137, 9-16=-1106/0, 9-17=0/709, 8-17=-674/0, 8-18=-58/435, 7-18=-454/124, 7-19=-258/269

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F18	Floor	6	1	I48734604
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:06 2021 Page 1
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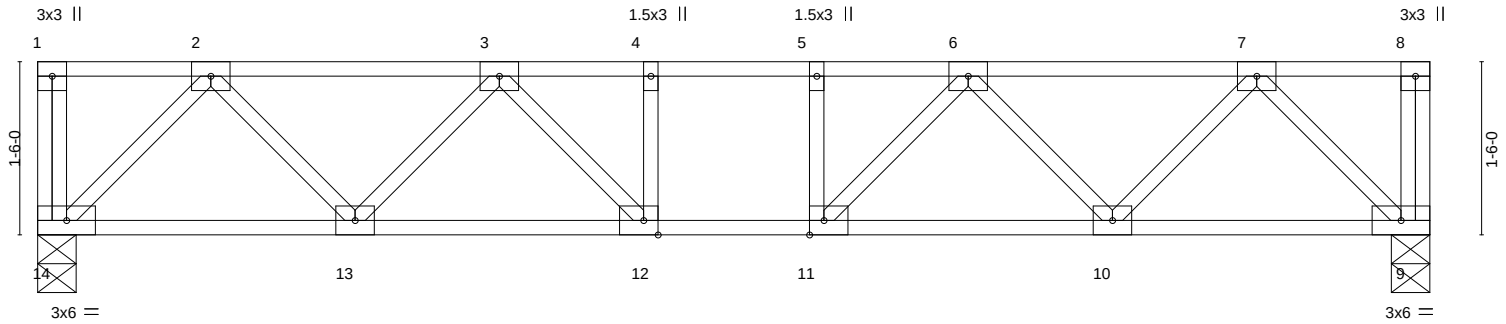

12-0-12
12-0-12

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/370, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/370

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F19	Floor	3	1	I48734605
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Y6Ac27WOCngp?VhM5i5vleORFq5ik9jreY1XBoyKtlQ

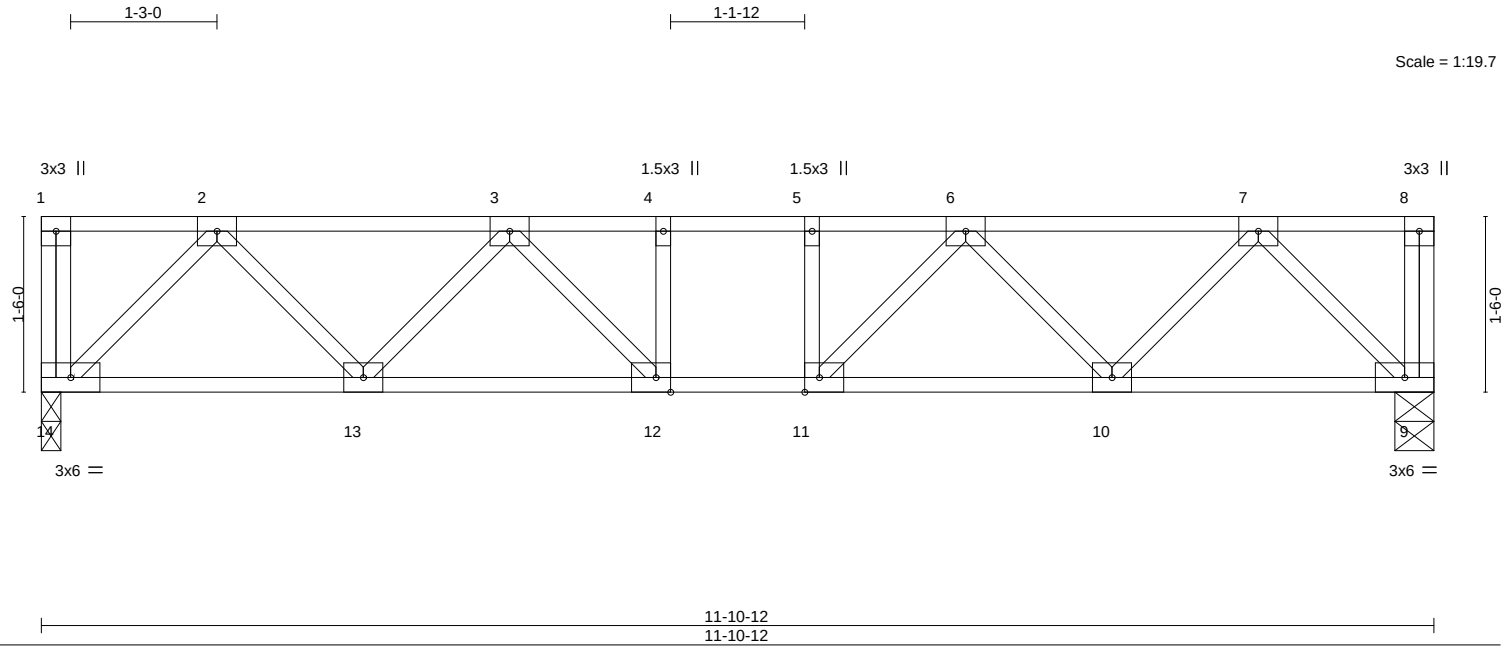

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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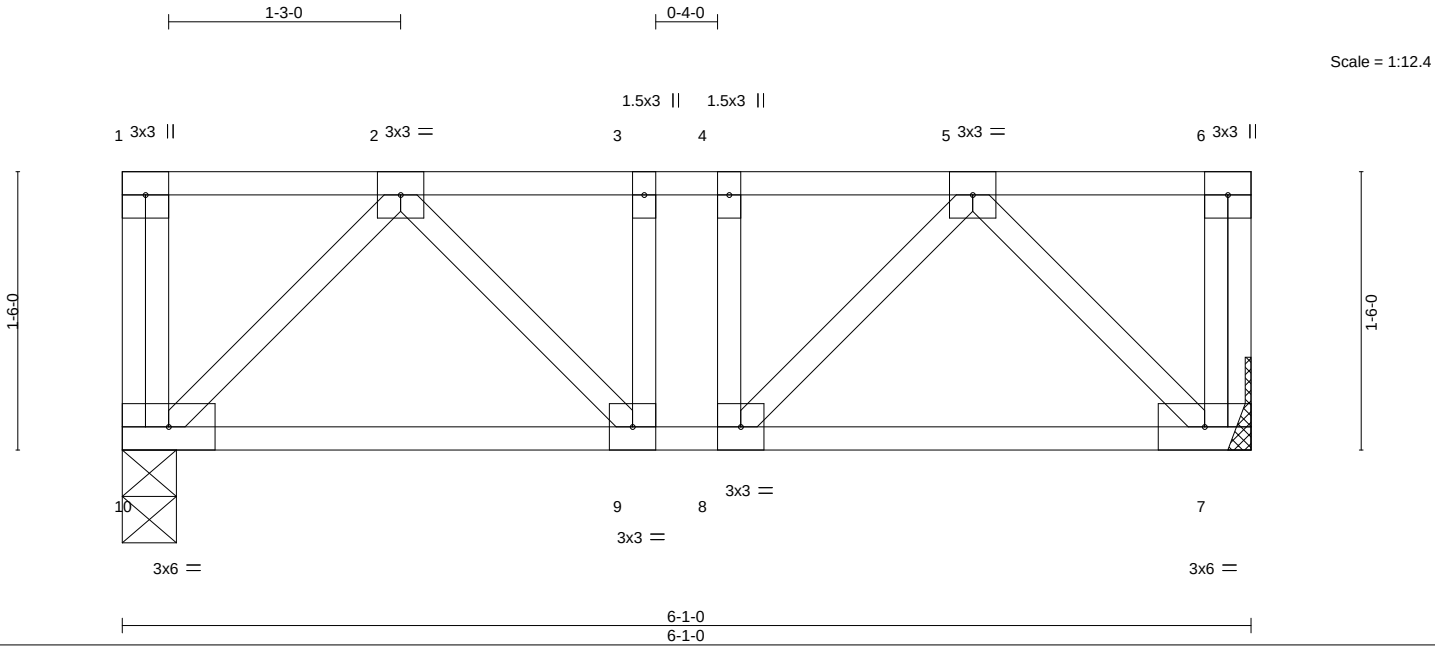
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F22	Floor	6	1	I48734606
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VVIMToYekOwXEoqlD77Nq3UpTdsDC5w86sWdGhyKtlO



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 7=Mechanical
Max Grav 10=379(LC 1), 7=379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-409/0, 3-4=-409/0, 4-5=-409/0
BOT CHORD 9-10=0/302, 8-9=0/409, 7-8=0/302
WEBS 2-10=-428/0, 5-7=-428/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F23	Floor	3	1	I48734607
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zhskg8YGVi2NsyPxnrecNH0vn1?4wTHHLVGBo7yKtlN

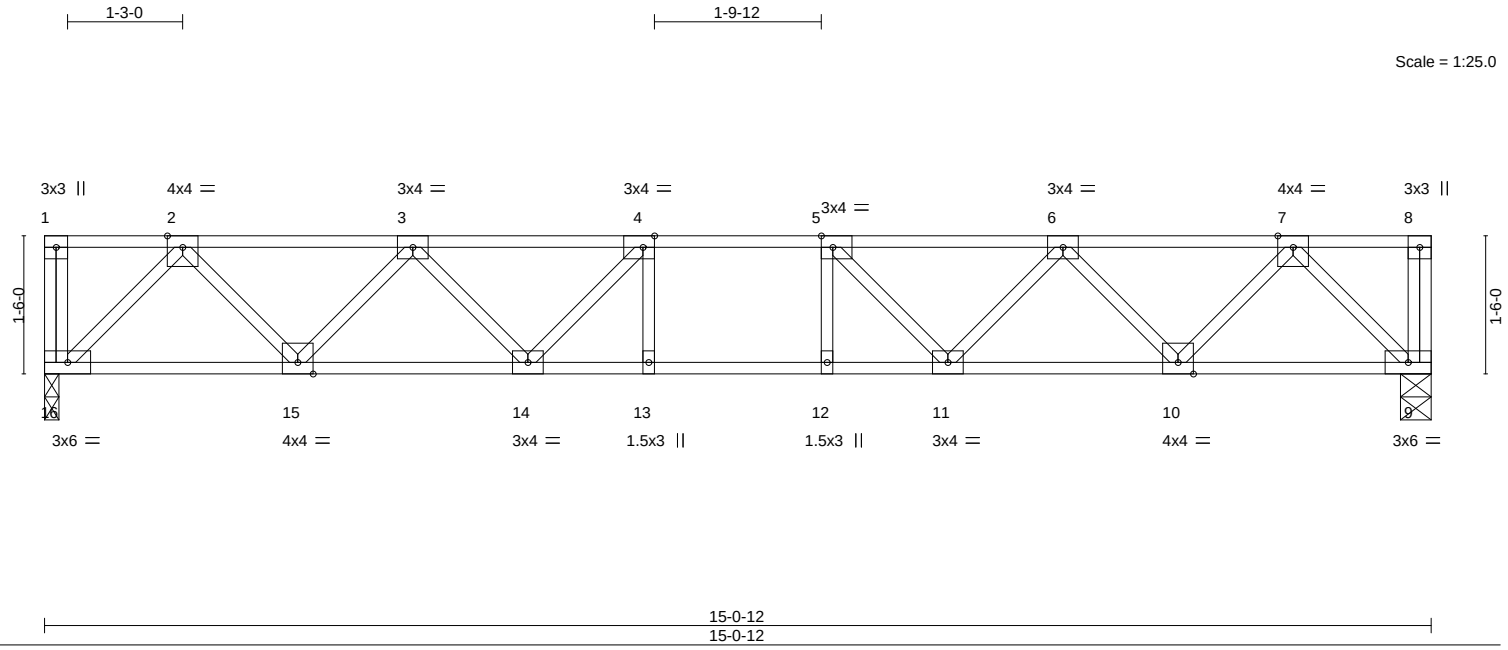

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.18	13-14	>993	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-1-14, 9=0-4-0
Max Grav 16=963(LC 1), 9=963(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1488/0, 3-4=-2315/0, 4-5=-2578/0, 5-6=-2315/0, 6-7=-1488/0
BOT CHORD 15-16=0/901, 14-15=0/2048, 13-14=0/2578, 12-13=0/2578, 11-12=0/2578, 10-11=0/2048, 9-10=0/901
WEBS 2-16=-1274/0, 2-15=0/872, 3-15=-833/0, 3-14=0/448, 4-14=-533/0, 7-9=-1274/0, 7-10=0/872, 6-10=-833/0, 6-11=0/448, 5-11=-533/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F24	Floor	4	1	I48734608
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:13 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NGXtIAb9ndRyjQ8WSzCJ?veIgE1w7n?j1TUrPSyKtlK

1-3-0 1-3-4 0-3-7

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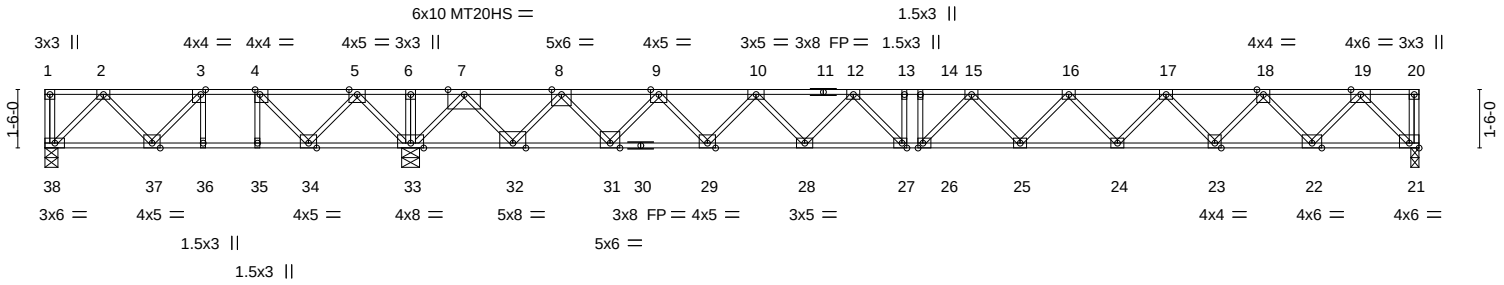

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-12 35-3-11
9-4-12 25-10-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [21:Edge,0-1-8], [26:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.44	25-26	>697	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.71	25-26	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 11-20: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except* 1-38,20-21,6-33,3-36,4-35,13-27,14-26: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-451(LC 4)
Max Grav 38=315(LC 3), 21=1434(LC 7), 33=3232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-239/1003, 3-4=-56/1902, 4-5=0/2977, 5-6=0/4752, 6-7=0/4752, 7-8=0/1476, 8-9=-1344/0, 9-10=-3319/0, 10-12=-4695/0, 12-13=-5572/0, 13-14=-5572/0, 14-15=-5572/0, 15-16=-5679/0, 16-17=-5168/0, 17-18=-4072/0, 18-19=-2383/0
BOT CHORD 37-38=-412/289, 36-37=-1902/56, 35-36=-1902/56, 34-35=-1902/56, 33-34=-3763/0, 32-33=-2930/0, 31-32=-410/351, 29-31=0/2465, 28-29=0/4150, 27-28=0/5229, 26-27=0/5572, 25-26=0/5760, 24-25=0/5562, 23-24=0/4755, 22-23=0/3368, 21-22=0/1372
WEBS 2-38=-408/583, 2-37=-879/0, 3-37=0/1301, 3-36=-723/0, 5-33=-1607/0, 5-34=0/1404, 4-34=-1810/0, 4-35=0/750, 7-33=-2578/0, 7-32=0/2161, 8-32=-2147/0, 8-31=0/1723, 9-31=-1686/0, 9-29=0/1290, 10-29=-1253/0, 10-28=0/830, 12-28=-814/0, 19-21=-1940/0, 19-22=0/1502, 18-22=-1465/0, 18-23=0/1047, 17-23=-1014/0, 17-24=0/614, 16-24=-587/0, 16-25=-61/303, 15-25=-273/129, 15-26=-553/169, 12-27=0/738, 13-27=-310/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=451.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F25	Floor	1	1	I48734609
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:14 2021 Page 1
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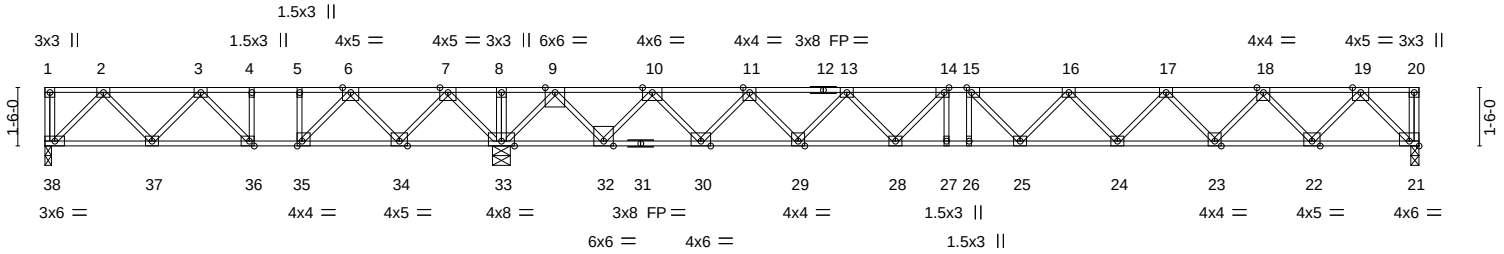

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-12 35-3-11
11-8-12 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.33	25-26	>841	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.53	25-26	>529	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-162(LC 4)
Max Grav 38=533(LC 3), 21=1301(LC 4), 33=3006(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/415, 3-4=-644/1296, 4-5=-644/1296, 5-6=-644/1296, 6-7=0/2551, 7-8=0/4070, 8-9=0/4070, 9-10=0/1095, 10-11=-1434/0, 11-13=-3101/0, 13-14=-4169/0, 14-15=-4611/0, 15-16=-4691/0, 16-17=-4433/0, 17-18=-3576/0, 18-19=-2129/0
BOT CHORD 37-38=-187/477, 36-37=-716/824, 35-36=-1296/644, 34-35=-1986/202, 33-34=-3089/0, 32-33=-2392/0, 30-32=-315/442, 29-30=0/2402, 28-29=0/3771, 27-28=0/4611, 26-27=0/4611, 25-26=0/4611, 24-25=0/4711, 23-24=0/4136, 22-23=0/2994, 21-22=0/1239
WEBS 2-38=-674/264, 2-37=-339/295, 3-37=-221/448, 3-36=-933/0, 4-36=0/466, 7-33=-1639/0, 7-34=0/1184, 6-34=-1233/0, 6-35=0/1277, 5-35=-679/0, 9-33=-2373/0, 9-32=0/1938, 10-32=-1915/0, 10-30=0/1497, 11-30=-1463/0, 11-29=0/1061, 13-29=-1019/0, 13-28=0/693, 14-28=-805/0, 14-27=-84/402, 19-21=-1752/0, 19-22=0/1323, 18-22=-1285/0, 18-23=0/866, 17-23=-833/0, 17-24=0/441, 16-24=-413/0, 16-25=-262/200, 15-25=-206/418, 15-26=-387/99

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=162.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F26	Floor	2	1	I48734610
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:16 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-orD?xCd14YpXatt575l1cYGpIS5PK3mAjRjV0nyKtlH

1-3-0 1-1-4 0-6-12

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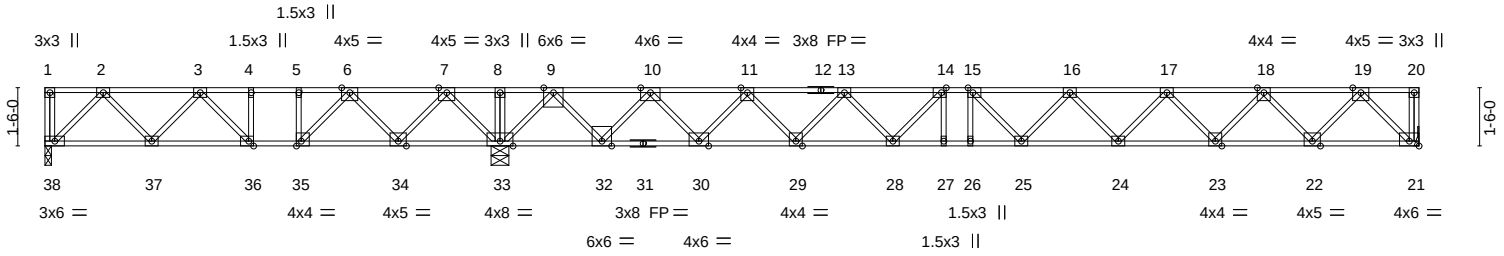


FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-12 35-5-0
11-8-12 23-8-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.34	25-26	>826	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.55	25-26	>518	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=Mechanical, 33=0-5-8
Max Uplift 38=-166(LC 4)
Max Grav 38=531(LC 3), 21=1307(LC 4), 33=3018(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-673/422, 3-4=-639/1313, 4-5=-639/1313, 5-6=-639/1313, 6-7=0/2578, 7-8=0/4102, 8-9=0/4102, 9-10=0/1106, 10-11=-1430/0, 11-13=-3112/0, 13-14=-4193/0, 14-15=-4651/0, 15-16=-4735/0, 16-17=-4467/0, 17-18=-3599/0, 18-19=-2141/0
BOT CHORD 37-38=-191/476, 36-37=-727/820, 35-36=-1313/639, 34-35=-2008/195, 33-34=-3119/0, 32-33=-2416/0, 30-32=-316/431, 29-30=0/2406, 28-29=0/3788, 27-28=0/4651, 26-27=0/4651, 25-26=0/4651, 24-25=0/4752, 23-24=0/4164, 22-23=0/3011, 21-22=0/1245
WEBS 2-38=-672/270, 2-37=-344/293, 3-37=-219/454, 3-36=-941/0, 4-36=0/470, 7-33=-1644/0, 7-34=0/1189, 6-34=-1238/0, 6-35=0/1285, 5-35=-683/0, 9-33=-2384/0, 9-32=0/1949, 10-32=-1926/0, 10-30=0/1508, 11-30=-1474/0, 11-29=0/1071, 13-29=-1028/0, 13-28=0/703, 14-28=-836/0, 19-21=-1761/0, 19-22=0/1331, 18-22=-1294/0, 18-23=0/874, 17-23=-841/0, 17-24=0/450, 16-24=-423/0, 16-25=-255/206, 15-25=-212/431, 15-26=-392/90, 14-27=-74/408

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=166.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

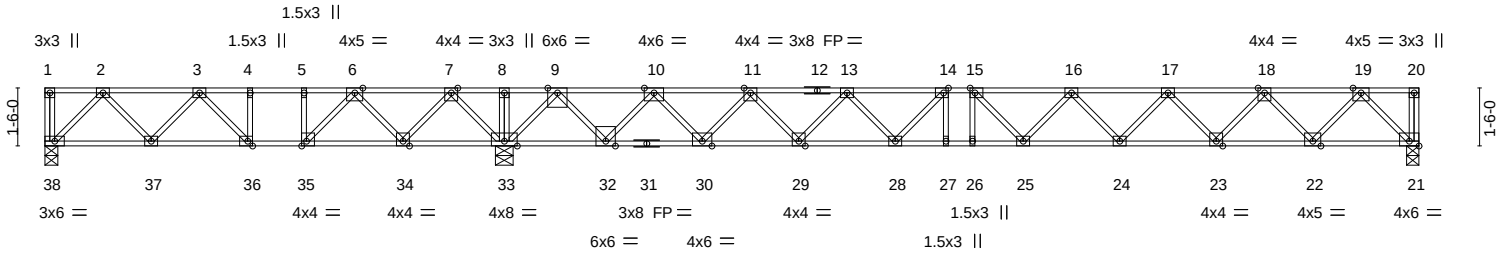
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F27	Floor	4	1	I48734611
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:19 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CQu8ZDfvNTB6RLbgoDJkEAuKOf58XQacPPx9c6yKtlE

1-3-0 1-3-4 0-6-12

Scale = 1:59.7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-10-12 35-7-0
11-10-12 23-8-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>814	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.55	25-26	>511	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-7 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-3-13, 33=0-5-8
Max Uplift 38=-141(LC 4)
Max Grav 38=551(LC 3), 21=1314(LC 4), 33=3001(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-711/372, 3-4=-705/1235, 4-5=-705/1235, 5-6=-705/1235, 6-7=0/2489, 7-8=0/3988, 8-9=0/3988, 9-10=0/1031, 10-11=-1526/0, 11-13=-3195/0, 13-14=-4264/0, 14-15=-4713/0, 15-16=-4789/0, 16-17=-4507/0, 17-18=-3626/0, 18-19=-2154/0
BOT CHORD 37-38=-166/495, 36-37=-657/874, 35-36=-1235/705, 34-35=-1932/246, 33-34=-3012/0, 32-33=-2308/0, 30-32=-249/534, 29-30=0/2496, 28-29=0/3866, 27-28=0/4713, 26-27=0/4713, 25-26=0/4713, 24-25=0/4798, 23-24=0/4198, 22-23=0/3031, 21-22=0/1252
WEBS 2-38=-700/234, 2-37=-307/321, 3-37=-243/423, 3-36=-919/0, 4-36=0/457, 7-33=-1630/0, 7-34=0/1170, 6-34=-1227/0, 6-35=0/1301, 5-35=-695/0, 9-33=-2376/0, 9-32=0/1940, 10-32=-1917/0, 10-30=0/1499, 11-30=-1465/0, 11-29=0/1063, 13-29=-1019/0, 13-28=0/697, 14-28=-827/0, 19-21=-1771/0, 19-22=0/1341, 18-22=-1304/0, 18-23=0/884, 17-23=-851/0, 17-24=0/460, 16-24=-433/0, 15-25=-221/423, 15-26=-388/95, 14-27=-78/404

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=141.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

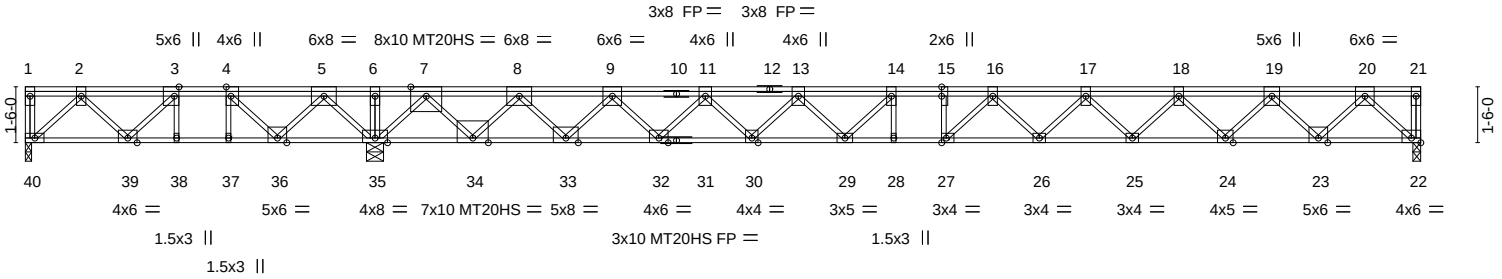
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F28	FLOOR	2	1	I48734612
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:21 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-8p0u_vhAv4Rqgel3weLCJb_klToz?OkvsjQGh_yKtlC

1-3-0 1-3-4 1-2-11

Scale = 1:61.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-12 / 9-4-12 — 37-5-15 / 28-1-3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,0-0-0], [22:Edge,0-1-8], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.45	27	>746	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.73	26-27	>462	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 251 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
31-40: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,3-38,4-37,14-28,15-27,6-35: 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-15 oc bracing.

REACTIONS. (size) 40=0-2-0, 35=0-5-8, 22=0-2-8
Max Uplift 40=-611(LC 4)
Max Grav 40=249(LC 3), 35=3571(LC 1), 22=1539(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-79/1455, 3-4=0/2544, 4-5=0/3816, 5-6=0/5987, 6-7=0/5987, 7-8=0/2267, 8-9=-914/0, 9-11=-3309/0, 11-13=-5092/0, 13-14=-6282/0, 14-15=-6774/0, 15-16=-6774/0, 16-17=-6730/0, 17-18=-5999/0, 18-19=-4656/0, 19-20=-2693/0

BOT CHORD 39-40=-546/251, 38-39=-2544/0, 37-38=-2544/0, 36-37=-2544/0, 35-36=-4933/0, 34-35=-3950/0, 33-34=-820/0, 32-33=0/2247, 30-32=0/4348, 29-30=0/5810, 28-29=0/6774, 27-28=0/6774, 26-27=0/6916, 25-26=0/6509, 24-25=0/5468, 23-24=0/3821, 22-23=0/1537

WEBS 2-40=-347/754, 2-39=-1319/0, 3-39=0/1540, 3-38=-289/0, 5-35=-1735/0, 5-36=0/1870, 4-36=-2061/0, 4-37=0/315, 20-22=-2125/0, 20-23=0/1676, 19-23=-1637/0, 19-24=0/1210, 18-24=-1177/0, 18-25=0/770, 17-25=-740/0, 17-26=0/412, 16-26=-386/0, 16-27=-635/384, 7-35=-2815/0, 7-34=0/2441, 8-34=-2419/0, 8-33=0/1987, 9-33=-1950/0, 9-32=0/1551, 11-32=-1518/0, 11-30=0/1089, 13-30=-1052/0, 13-29=0/872, 14-29=-930/0, 15-27=-222/384, 6-35=-382/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 40=611.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F33	FLOOR	5	1	I48734613
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZNi1cxj2C?pOX6UdbnuvxDcLngvBCrpLZhfwIJyKtl9

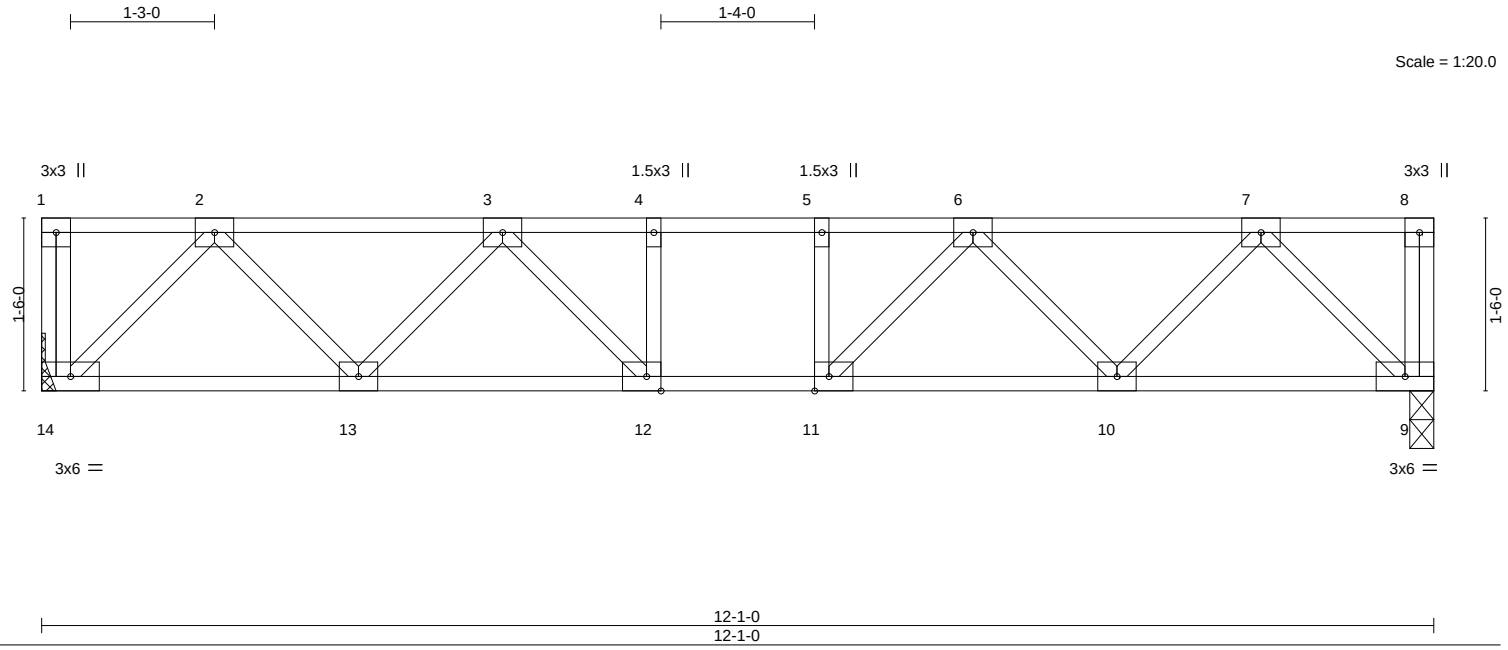

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-2-8
Max Grav 14=769(LC 1), 9=769(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1114/0, 3-4=-1636/0, 4-5=-1636/0, 5-6=-1636/0, 6-7=-1114/0
BOT CHORD 13-14=0/713, 12-13=0/1488, 11-12=0/1636, 10-11=0/1488, 9-10=0/713
WEBS 2-14=-1009/0, 2-13=0/596, 3-13=-556/0, 3-12=0/373, 7-9=-1009/0, 7-10=0/596, 6-10=-556/0, 6-11=0/373

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F34	FLOOR	2	1	I48734614
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:25 2021 Page 1
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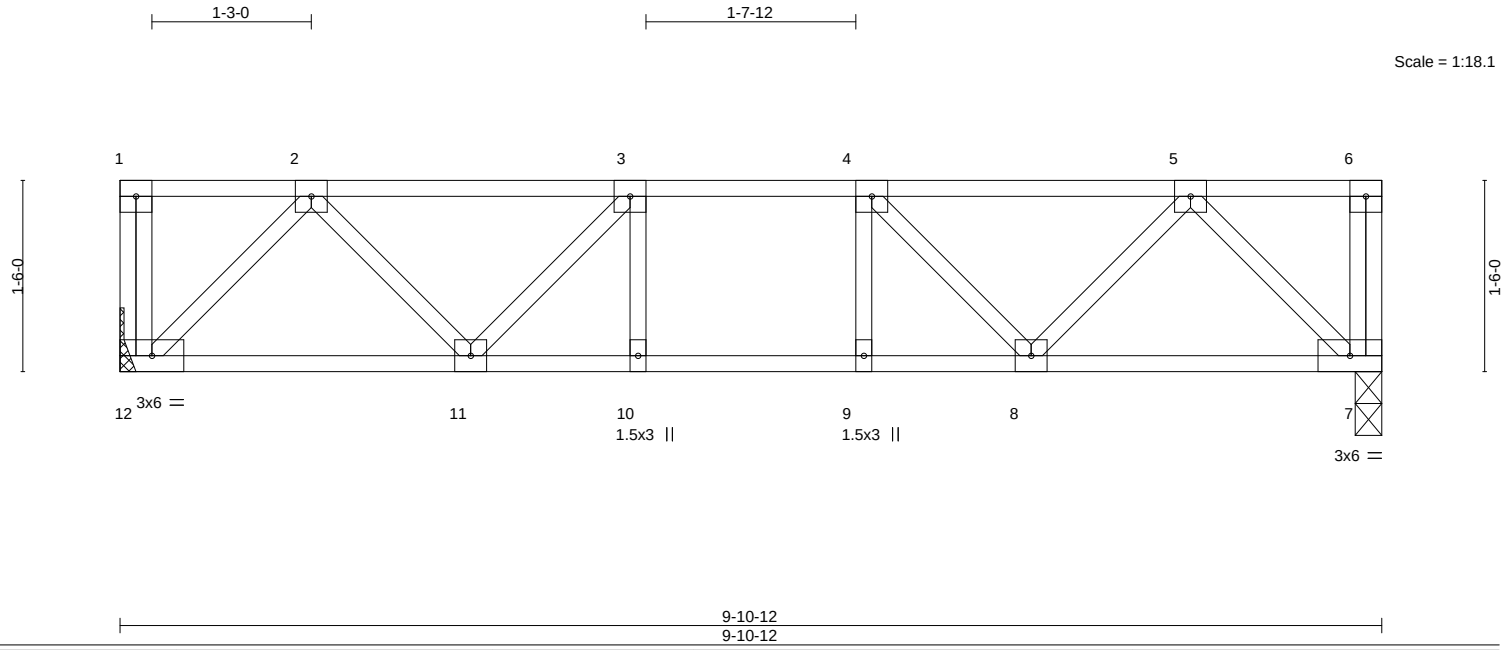

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-2-8
Max Grav 12=627(LC 1), 7=627(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-840/0, 3-4=-1096/0, 4-5=-840/0
BOT CHORD	11-12=0/573, 10-11=0/1096, 9-10=0/1096, 8-9=0/1096, 7-8=0/573
WEBS	2-12=-811/0, 2-11=0/397, 3-11=-399/0, 5-7=-811/0, 5-8=0/397, 4-8=-399/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

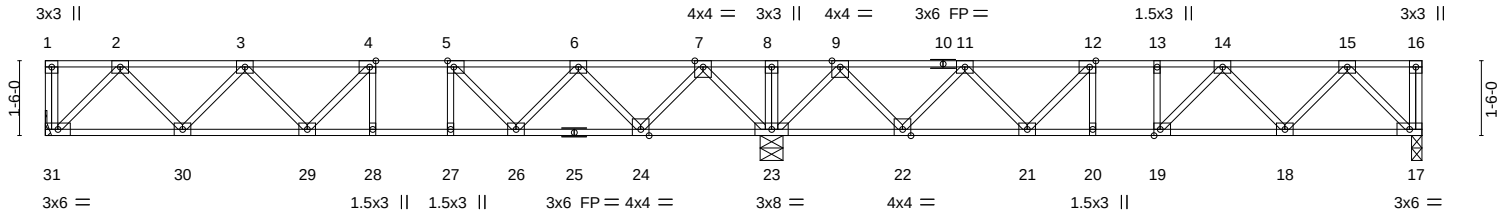
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F35	Floor	5	1	I48734615
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:26 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Vmqn1cIljc36nPe0jCxN0ehbdUVvgixe0?81MCyKtl7

1-3-0 1-5-4 1-2-0

Scale = 1:46.2



14-6-12 27-7-4
14-6-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.09	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.14	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=823(LC 3), 17=717(LC 4), 23=2124(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1222/0, 3-4=-1792/0, 4-5=-1854/0, 5-6=-1444/0, 6-7=-449/386, 7-8=0/1691, 8-9=0/1691, 9-11=-333/481, 11-12=-1164/10, 12-13=-1427/0, 13-14=-1427/0, 14-15=-1015/0
BOT CHORD 30-31=0/758, 29-30=0/1665, 28-29=0/1854, 27-28=0/1854, 26-27=0/1854, 24-26=-94/1085, 23-24=-767/0, 22-23=-800/0, 21-22=-203/895, 20-21=0/1427, 19-20=0/1427, 18-19=0/1342, 17-18=0/660
WEBS 2-31=-1072/0, 2-30=0/689, 3-30=-658/0, 7-23=-1451/0, 7-24=0/1048, 6-24=-1006/0, 6-26=0/604, 5-26=-743/0, 5-27=0/285, 4-28=-261/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/493, 12-21=-562/0, 15-17=-934/0, 15-18=0/527, 14-18=-486/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

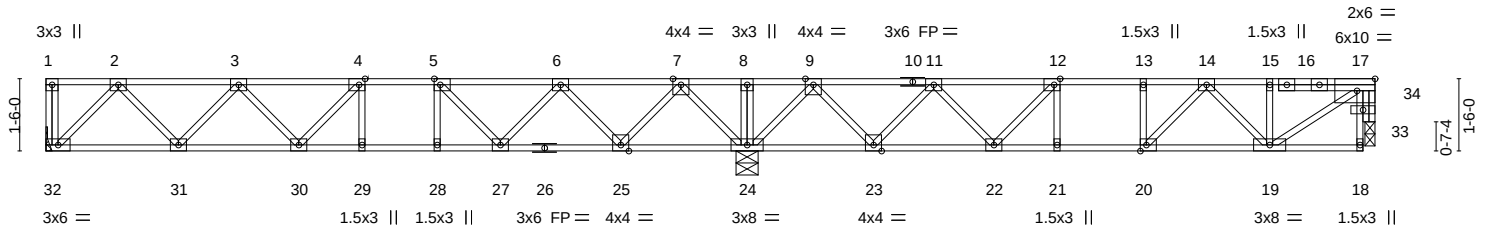
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F36	Floor	1	1	I48734616
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:28 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-R9xYSImZFEJq0jnPqczr53mx4HBL8bQxTJd8R4yKtl5

1-3-0 1-5-4 1-8-0 1-9-0

Scale: 1/4"=1'



14-6-12 27-7-4
14-6-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.09	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.14	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=830(LC 3), 24=2114(LC 1), 34=691(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1236/0, 3-4=-1820/0, 4-5=-1894/0, 5-6=-1495/0, 6-7=-513/404, 7-8=0/1700, 8-9=0/1700, 9-11=-313/419, 11-12=-1146/0, 12-13=-1406/0, 13-14=-1406/0, 14-15=-875/0, 15-17=-878/0
BOT CHORD	31-32=0/766, 30-31=0/1685, 29-30=0/1894, 28-29=0/1894, 27-28=0/1894, 25-27=-110/1143, 24-25=-731/0, 23-24=-825/0, 22-23=-150/876, 21-22=0/1406, 20-21=0/1406, 19-20=0/1212
WEBS	2-32=-1083/0, 2-31=0/699, 3-31=-668/0, 4-29=-262/0, 7-24=-1452/0, 7-25=0/1049, 6-25=-1007/0, 6-27=0/606, 5-27=-744/0, 5-28=0/285, 9-24=-1328/0, 9-23=0/936, 11-23=-902/0, 11-22=0/483, 12-22=-554/0, 17-19=0/966, 14-19=-488/0, 14-20=-57/281, 17-34=-711/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

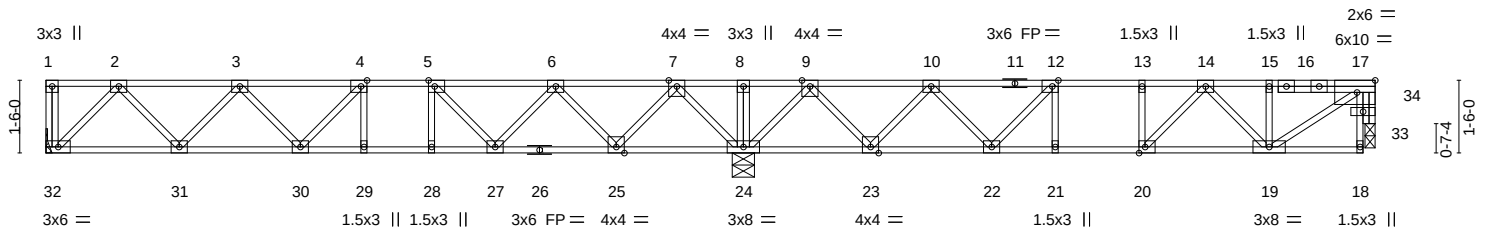
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F37	Floor	1	1	I48734617
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NX3lt_opnraYF1xny1?JBUrGT5qncV_Exd6FVzyKtl3

1-3-0 1-3-4 1-8-0 1-9-0

Scale: 1/4"=1'



14-4-12 27-5-4
14-4-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.08	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=816(LC 3), 24=2111(LC 1), 34=689(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1210/0, 3-4=-1767/0, 4-5=-1831/0, 5-6=-1446/0, 6-7=-477/423, 7-8=0/1729, 8-9=0/1729, 9-10=-299/436, 10-12=-1136/0, 12-13=-1398/0, 13-14=-1398/0, 14-15=-872/0, 15-17=-876/0
BOT CHORD 31-32=0/752, 30-31=0/1646, 29-30=0/1831, 28-29=0/1831, 27-28=0/1831, 25-27=-130/1102, 24-25=-743/0, 23-24=-851/0, 22-23=-166/864, 21-22=0/1398, 20-21=0/1398, 19-20=0/1207
WEBS 2-32=-1063/0, 2-31=0/681, 3-31=-648/0, 7-24=-1443/0, 7-25=0/1041, 6-25=-1000/0, 6-27=0/597, 5-27=-719/0, 5-28=0/271, 17-19=0/963, 14-19=-485/0, 14-20=-62/277, 9-24=-1333/0, 9-23=0/940, 10-23=-905/0, 10-22=0/488, 12-22=-559/0, 17-34=-709/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F38	Floor	1	1	I48734618
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:32 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KwB3Igp3JSqGVK5A3S2nGvxbyvYJ4PiWOxbLasyKtl1

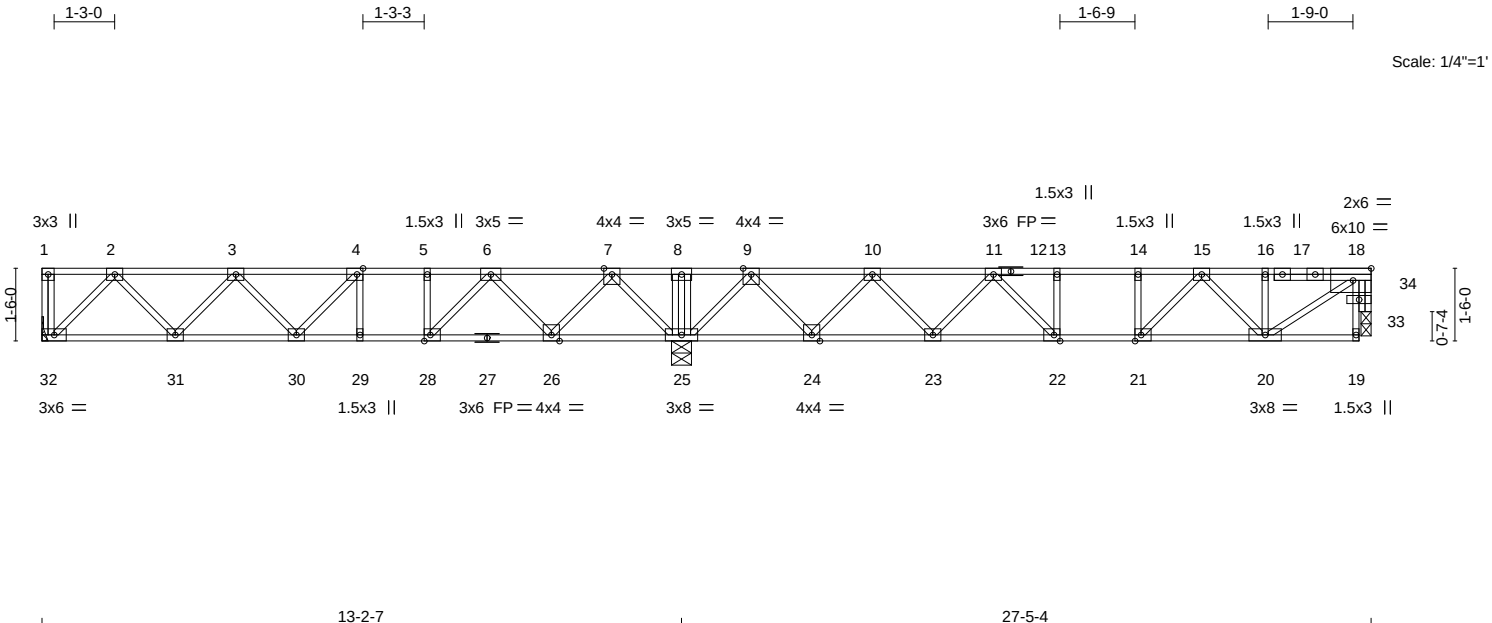

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.08	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-28,25-26,24-25.

REACTIONS. (size) 32=Mechanical, 25=0-4-15, 34=0-2-8
Max Grav 32=748(LC 3), 25=2109(LC 1), 34=760(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1079/0, 3-4=-1512/0, 4-5=-1465/0, 5-6=-1465/0, 6-7=-502/604, 7-8=0/1669, 8-9=0/1669, 9-10=-309/237, 10-11=-1293/0, 11-13=-1676/0, 13-14=-1676/0, 14-15=-1676/0, 15-16=-975/0, 16-18=-979/0
BOT CHORD	31-32=0/681, 30-31=0/1459, 29-30=0/1465, 28-29=0/1465, 26-28=-290/1060, 25-26=-909/0, 24-25=-692/0, 23-24=0/945, 22-23=0/1605, 21-22=0/1676, 20-21=0/1377
WEBS	2-32=-964/0, 2-31=0/591, 3-31=-565/0, 4-30=0/346, 4-29=-305/0, 7-25=-1363/0, 7-26=0/902, 6-26=-945/0, 6-28=0/823, 5-28=-337/0, 18-20=0/1081, 15-20=-582/0, 15-21=0/442, 14-21=-259/0, 9-25=-1440/0, 9-24=0/1012, 10-24=-987/0, 10-23=0/556, 11-23=-510/0, 11-22=0/379, 18-34=-781/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F39	Floor	1	1	I48734619
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GJIpiMrKr44_keFYBt4FLK0xPiF1YHipsE4SekyKtl?

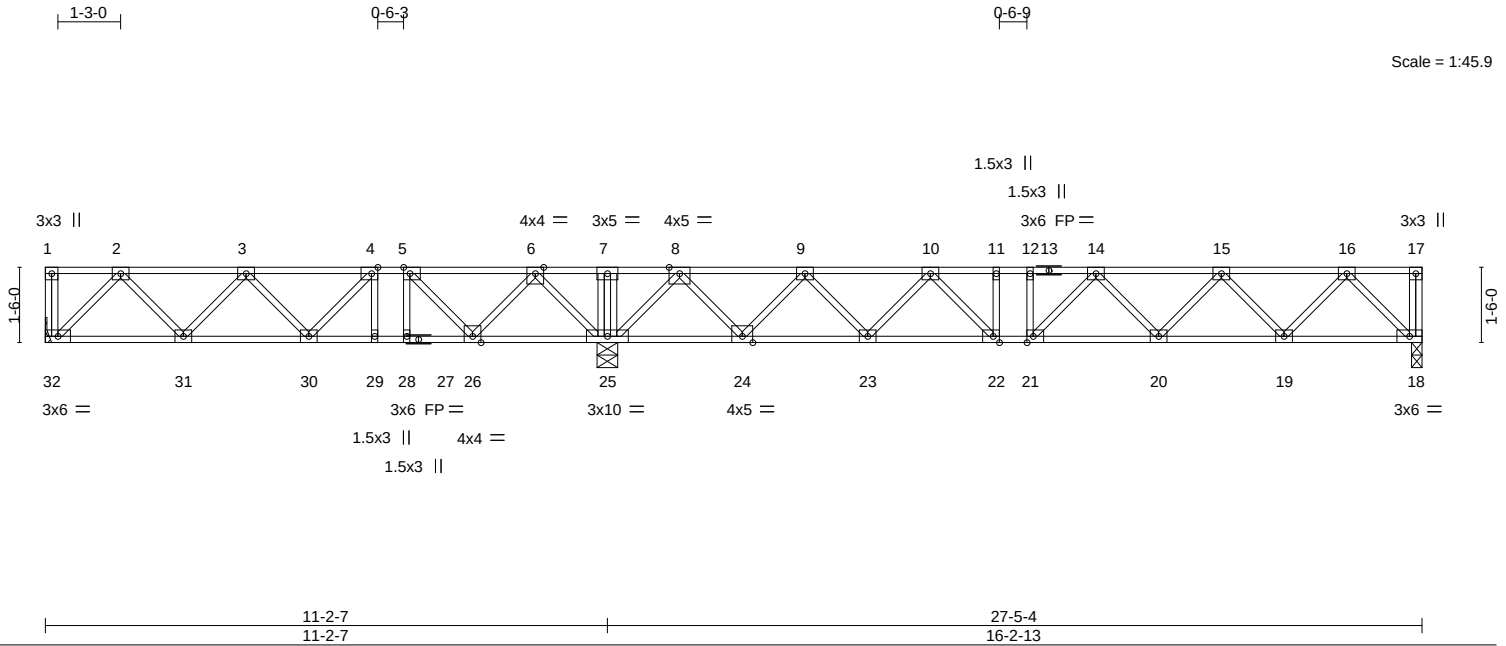

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.10	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.16	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 18=0-2-8, 25=0-4-15
Max Grav 32=583(LC 3), 18=893(LC 4), 25=2207(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-766/27, 3-4=-901/289, 4-5=-736/559, 5-6=-202/963, 6-7=0/2069, 7-8=0/2069, 8-9=-177/283, 9-10=-1423/0, 10-11=-2161/0, 11-12=-2161/0, 12-14=-2161/0, 14-15=-2064/0, 15-16=-1353/0
BOT CHORD 31-32=0/519, 30-31=-99/991, 29-30=-559/736, 28-29=-559/736, 26-28=-559/736, 25-26=-1317/0, 24-25=-882/0, 23-24=0/947, 22-23=0/1886, 21-22=0/2161, 20-21=0/2243, 19-20=0/1851, 18-19=0/832
WEBS 2-32=-734/0, 2-31=-74/367, 3-31=-335/107, 3-30=-364/0, 4-30=0/535, 4-29=-392/0, 6-25=-1273/0, 6-26=0/887, 5-26=-987/0, 5-28=0/406, 16-18=-1176/0, 16-19=0/775, 15-19=-741/0, 15-20=0/316, 14-20=-266/0, 8-25=-1642/0, 8-24=0/1210, 9-24=-1179/0, 9-23=0/741, 10-23=-723/0, 10-22=0/574, 14-21=-335/104, 11-22=-276/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F40	Floor	1	1	I48734620
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gu_yLNtC8?SYb6z7s?dyzzeRiwDQldGGYCI6E3yKtky

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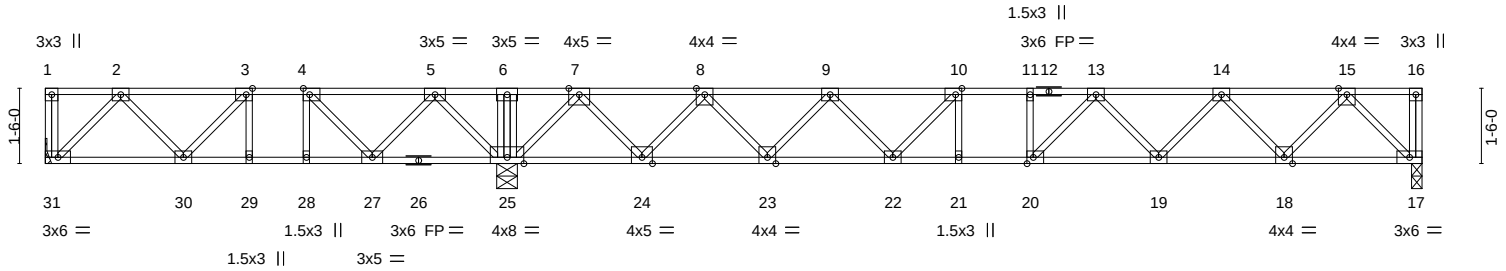

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-2-7 27-5-4
9-2-7 18-2-13

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.15	20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.25	20	>869	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 25=0-4-15
Max Uplift 31=-85(LC 4)
Max Grav 31=440(LC 3), 17=1024(LC 7), 25=2269(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-481/298, 3-4=-498/641, 4-5=-82/1142, 5-6=0/2238, 6-7=0/2238, 8-9=-1703/0, 9-10=-2591/0, 10-11=-2906/0, 11-13=-2906/0, 13-14=-2547/0, 14-15=-1602/0
BOT CHORD 30-31=-86/398, 29-30=-641/498, 28-29=-641/498, 27-28=-641/498, 25-27=-1542/0, 24-25=-922/0, 23-24=0/1096, 22-23=0/2284, 21-22=0/2906, 20-21=0/2906, 19-20=0/2846, 18-19=0/2218, 17-18=0/962
WEBS 2-31=-563/122, 2-30=-315/123, 3-30=-24/496, 5-25=-1180/0, 5-27=0/818, 4-27=-964/0, 4-28=0/377, 3-29=-358/0, 7-25=-1821/0, 7-24=0/1370, 8-24=-1345/0, 8-23=0/927, 9-23=-887/0, 9-22=0/526, 10-22=-614/0, 15-17=-1360/0, 15-18=0/951, 14-18=-916/0, 14-19=0/489, 13-19=-446/0, 13-20=-193/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F41	Floor	1	1	I48734621
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:39 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-cG6im3vSgciGqP7WzQgQ2Ojp1jxVDWiY?WnDJyyKtkw

1-3-0 1-6-3 0-9-9

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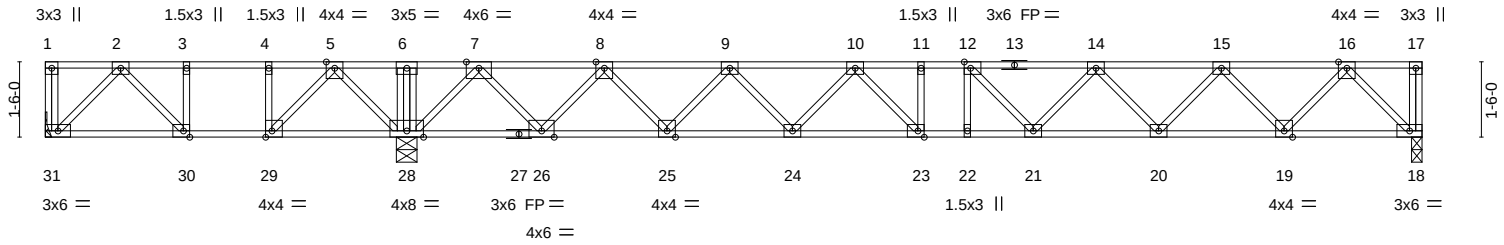

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-2-7 27-5-4
7-2-7 20-2-13

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.22	22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.35	22	>685	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 18-27: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 18=0-2-8, 28=0-4-15
Max Uplift 31=-175(LC 4)
Max Grav 31=310(LC 3), 18=1188(LC 7), 28=2258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-195/671, 3-4=-195/671, 4-5=-195/671, 5-6=0/1927, 6-7=0/1927, 7-8=-679/0, 8-9=-2341/0, 9-10=-3400/0, 10-11=-3943/0, 11-12=-3943/0, 12-14=-3802/0, 14-15=-3160/0, 15-16=-1914/0
BOT CHORD	29-30=-671/195, 28-29=-1303/0, 26-28=-520/0, 25-26=0/1651, 24-25=0/3011, 23-24=0/3775, 22-23=0/3943, 21-22=0/3943, 20-21=0/3626, 19-20=0/2675, 18-19=0/1128
WEBS	2-31=-328/289, 2-30=-675/0, 3-30=0/379, 5-28=-1021/0, 5-29=0/1100, 4-29=-632/0, 7-28=-1946/0, 7-26=0/1512, 8-26=-1465/0, 8-25=0/1047, 9-25=-1014/0, 9-24=0/597, 10-24=-578/0, 10-23=-95/526, 16-18=-1595/0, 16-19=0/1169, 15-19=-1130/0, 15-20=0/722, 14-20=-693/0, 14-21=0/385, 12-21=-404/108

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=175.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F42	Floor	1	1	I48734622
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:41 2021 Page 1
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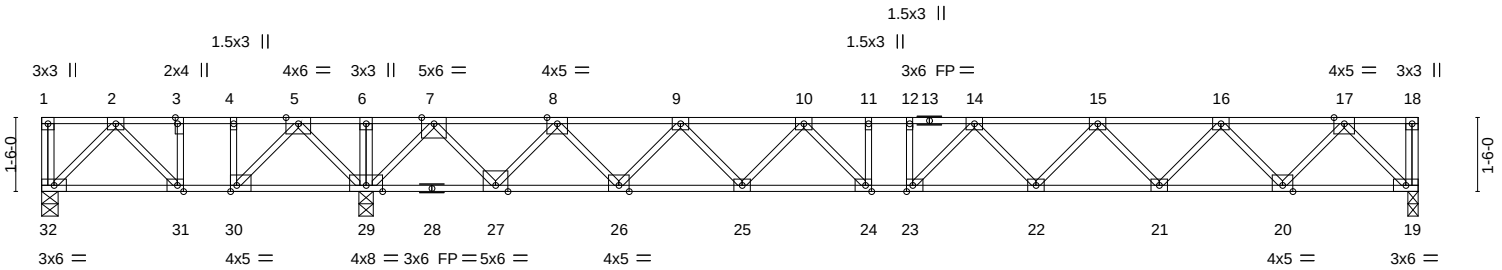

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-6-15 27-10-15
6-6-15 21-4-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.25	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.41	22-23	>621	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-3 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-429(LC 4)
Max Grav 32=178(LC 3), 19=1201(LC 7), 29=2582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1189, 3-4=0/1189, 4-5=0/1189, 5-6=0/2837, 6-7=0/2837, 7-8=-16/336, 8-9=-1801/0, 9-10=-3105/0, 10-11=-3935/0, 11-12=-3935/0, 12-14=-3935/0, 14-15=-3886/0, 15-16=-3207/0, 16-17=-1940/0
BOT CHORD 31-32=-455/103, 30-31=-1189/0, 29-30=-2059/0, 27-29=-1364/0, 26-27=0/985, 25-26=0/2594, 24-25=0/3606, 23-24=0/3935, 22-23=0/4050, 21-22=0/3683, 20-21=0/2713, 19-20=0/1140
WEBS 2-32=-146/643, 2-31=-1063/0, 3-31=0/590, 5-29=-1279/0, 5-30=0/1408, 4-30=-789/0, 7-29=-2084/0, 7-27=0/1690, 8-27=-1642/0, 8-26=0/1225, 9-26=-1191/0, 9-25=0/770, 10-25=-756/0, 10-24=0/694, 11-24=-352/0, 17-19=-1613/0, 17-20=0/1189, 16-20=-1149/0, 16-21=0/734, 15-21=-708/0, 15-22=0/332, 14-22=-303/0, 14-23=-421/213

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 32=429.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F43	FLOOR	3	1	I48734623
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:41 2021 Page 1
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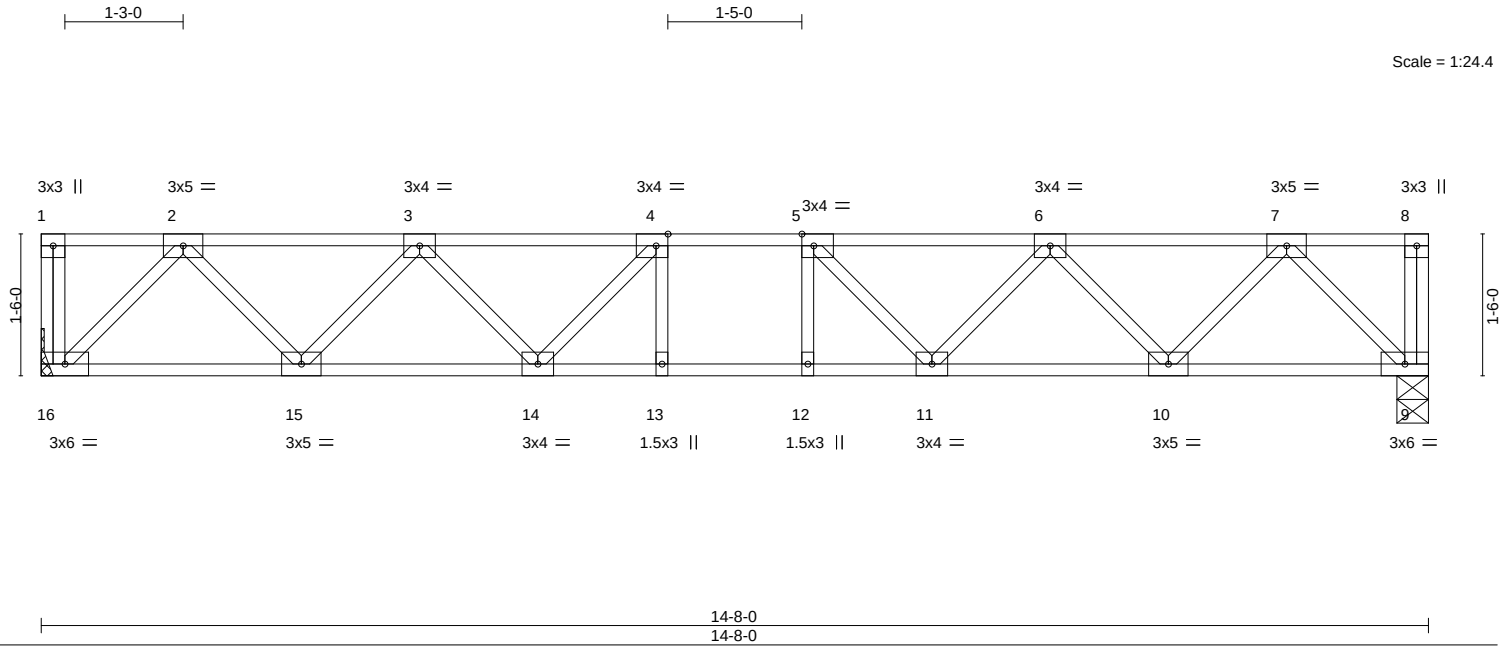

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-4-0
Max Grav 16=937(LC 1), 9=937(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1439/0, 3-4=-2218/0, 4-5=-2453/0, 5-6=-2218/0, 6-7=-1439/0
BOT CHORD 15-16=0/875, 14-15=0/1977, 13-14=0/2453, 12-13=0/2453, 11-12=0/2453, 10-11=0/1977, 9-10=0/875
WEBS 2-16=-1238/0, 2-15=0/838, 3-15=-799/0, 3-14=0/408, 4-14=-477/0, 7-9=-1238/0, 7-10=0/838, 6-10=-799/0, 6-11=0/408, 5-11=-477/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F44	FLOOR	3	1	I48734624
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:42 2021 Page 1
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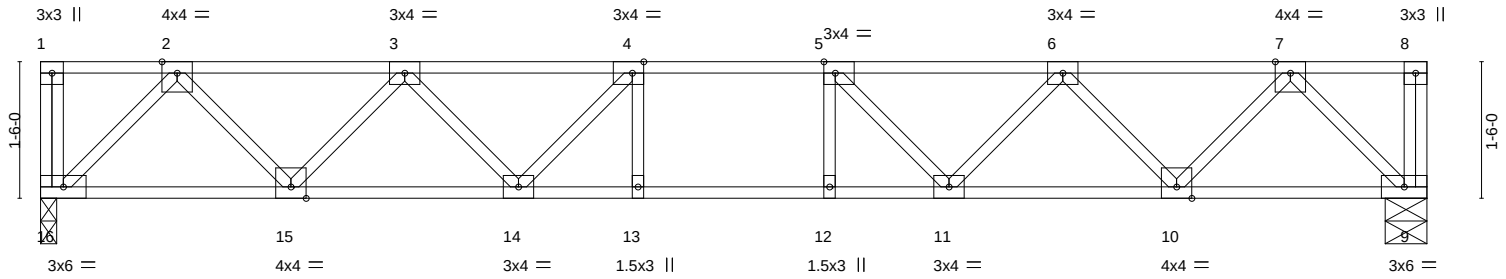

15-2-12
15-2-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.18	13-14	>989	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-5-8
Max Grav 16=974(LC 1), 9=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1508/0, 3-4=-2356/0, 4-5=-2632/0, 5-6=-2356/0, 6-7=-1508/0
BOT CHORD 15-16=0/912, 14-15=0/2077, 13-14=0/2632, 12-13=0/2632, 11-12=0/2632, 10-11=0/2077, 9-10=0/912
WEBS 2-16=-1290/0, 2-15=0/886, 3-15=-846/0, 3-14=0/462, 4-14=-559/0, 7-9=-1290/0, 7-10=0/886, 6-10=-846/0, 6-11=0/462, 5-11=-559/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F45	Floor	3	1	I48734625
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:44 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zEvbpmzbU8KZxA0Tm_FblRRitkfcusnI9oV__9yKtkr

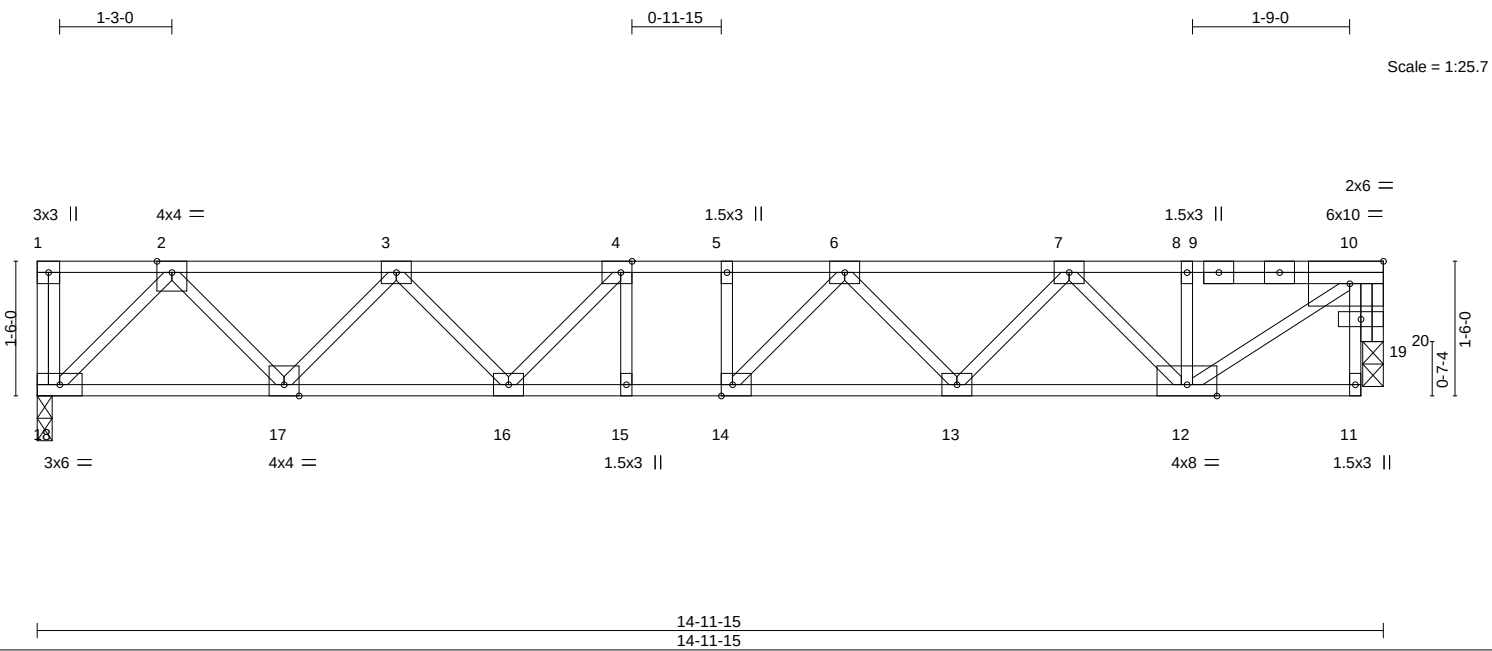

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-4-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.10	14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.16	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 10-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 20=0-2-12
Max Grav 18=956(LC 1), 20=937(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1474/0, 3-4=-2289/0, 4-5=-2544/0, 5-6=-2544/0, 6-7=-2160/0, 7-8=-1216/0, 8-10=-1220/0
BOT CHORD	17-18=0/894, 16-17=0/2027, 15-16=0/2544, 14-15=0/2544, 13-14=0/2475, 12-13=0/1820
WEBS	2-18=-1264/0, 2-17=0/862, 3-17=-823/0, 3-16=0/430, 4-16=-476/0, 10-12=0/1363, 7-12=-875/0, 7-13=0/505, 6-13=-468/0, 6-14=-128/335, 10-20=-958/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18, 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

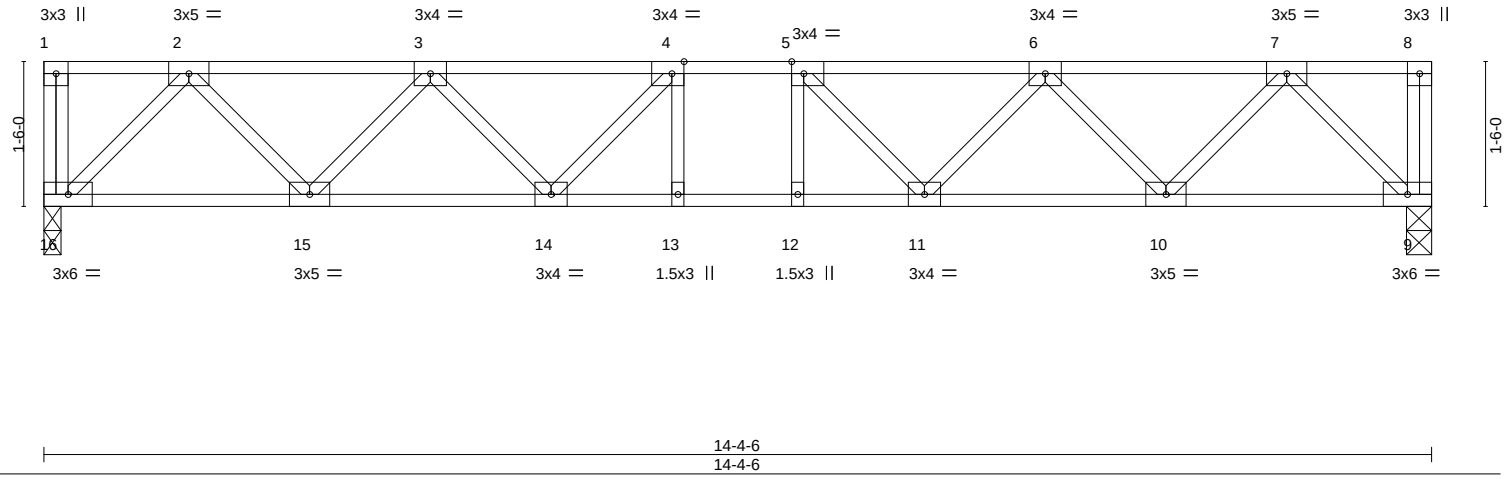
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F46	Floor	1	1	I48734626
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:45 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-RQTz06zDFSTQYKbgKhmqIfztM8_KdIPROSEXWbyKtkq

1-3-0 1-1-6

Scale: 1/2"=1'



14-4-6
14-4-6

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-3-2
Max Grav 16=917(LC 1), 9=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1402/0, 3-4=-2145/0, 4-5=-2360/0, 5-6=-2145/0, 6-7=-1402/0
BOT CHORD 15-16=0/855, 14-15=0/1922, 13-14=0/2360, 12-13=0/2360, 11-12=0/2360, 10-11=0/1922, 9-10=0/855
WEBS 2-16=-1210/0, 2-15=0/812, 3-15=-773/0, 3-14=0/379, 4-14=-435/0, 7-9=-1210/0, 7-10=0/812, 6-10=-773/0, 6-11=0/379, 5-11=-435/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F47	Floor	1	1	I48734627
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:46 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vc1LES_r0mbHAU9suOI3qsW2fYNiMnvac6_522yKtkp

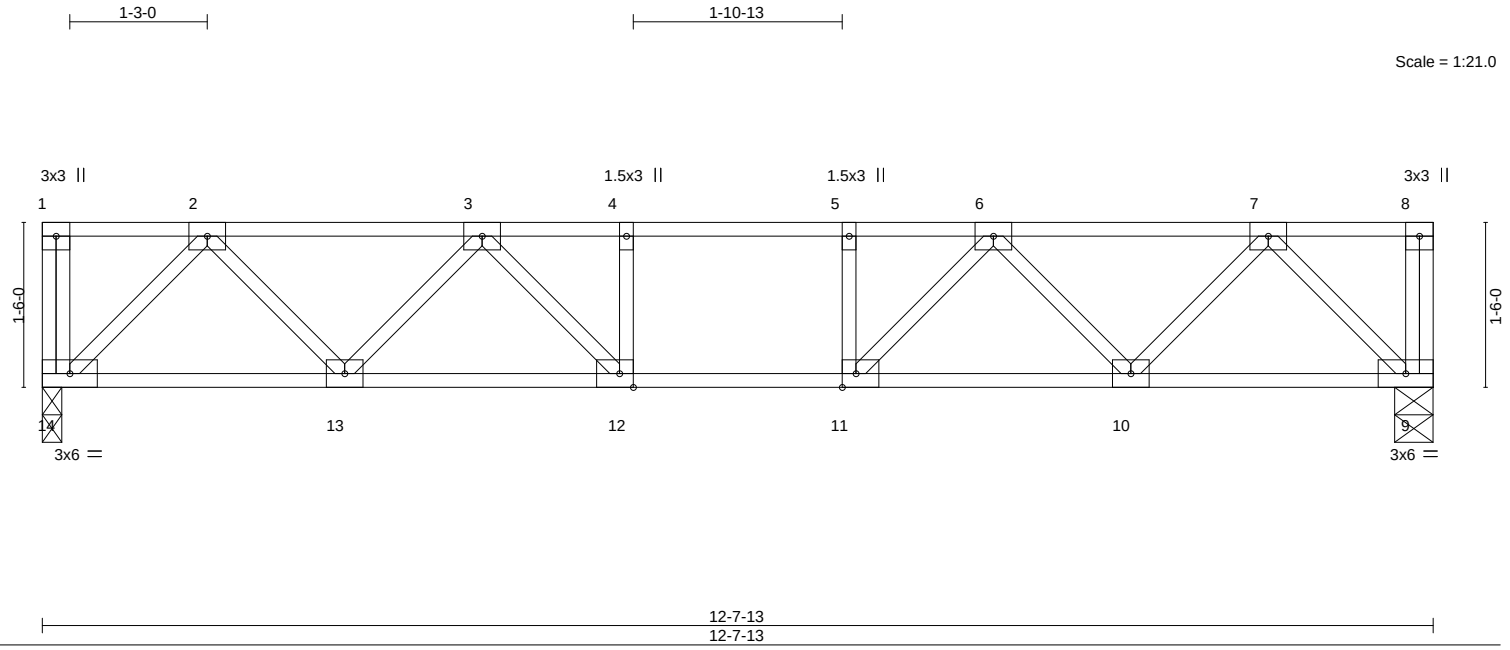

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-4-3
Max Grav 14=806(LC 1), 9=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1183/0, 3-4=-1787/0, 4-5=-1787/0, 5-6=-1787/0, 6-7=-1183/0
BOT CHORD 13-14=0/751, 12-13=0/1589, 11-12=0/1787, 10-11=0/1589, 9-10=0/751
WEBS 2-14=-1061/0, 2-13=0/643, 3-13=-604/0, 3-12=0/459, 7-9=-1061/0, 7-10=0/643, 6-10=-604/0, 6-11=0/459, 5-11=-259/0, 4-12=-259/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F48	FLOOR	4	1	I48734628
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NpbkRo?Tn3j8oek2R6pIN42Dkyj85EBkrmjebUyKtko

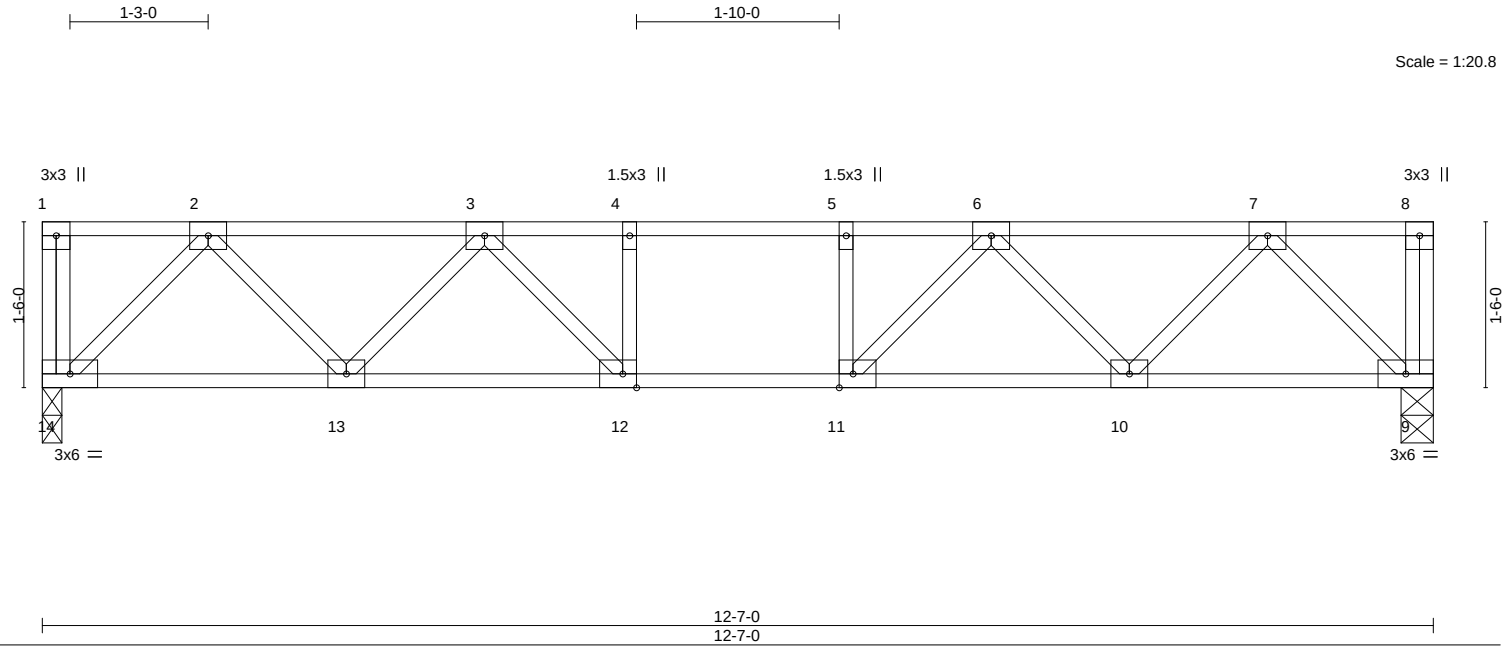

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-3-8
Max Grav 14=802(LC 1), 9=802(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1175/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1175/0
BOT CHORD 13-14=0/746, 12-13=0/1577, 11-12=0/1769, 10-11=0/1577, 9-10=0/746
WEBS 2-14=-1055/0, 2-13=0/638, 3-13=-598/0, 3-12=0/449, 4-12=-252/0, 7-9=-1055/0, 7-10=0/638, 6-10=-598/0, 6-11=0/449, 5-11=-252/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F49	Floor	1	1	I48734629
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:48 2021 Page 1
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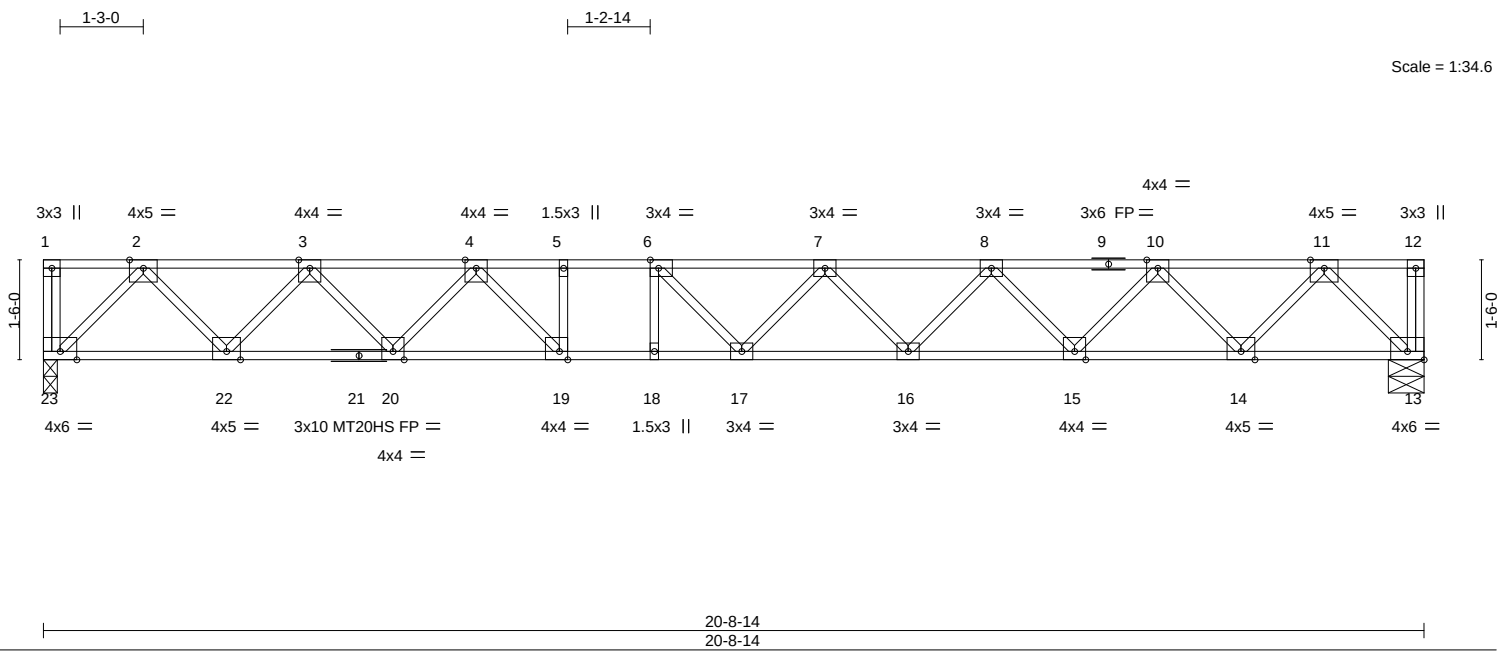

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.31	17-18	>784	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.51	17-18	>484	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-9: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 20-22.

REACTIONS. (size) 23=0-2-8, 13=0-6-7
Max Grav 23=1332(LC 1), 13=1332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2194/0, 3-4=-3669/0, 4-5=-4778/0, 5-6=-4778/0, 6-7=-4918/0, 7-8=-4607/0, 8-10=-3692/0, 10-11=-2188/0
BOT CHORD 22-23=0/1270, 20-22=0/3081, 19-20=0/4285, 18-19=0/4778, 17-18=0/4778, 16-17=0/4926, 15-16=0/4277, 14-15=0/3082, 13-14=0/1270
WEBS 2-23=-1796/0, 2-22=0/1374, 3-22=-1318/0, 3-20=0/875, 4-20=-915/0, 4-19=0/908, 5-19=-355/0, 11-13=-1796/0, 11-14=0/1365, 10-14=-1328/0, 10-15=0/907, 8-15=-871/0, 8-16=0/490, 7-16=-474/0, 6-17=-218/444, 6-18=-361/12

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

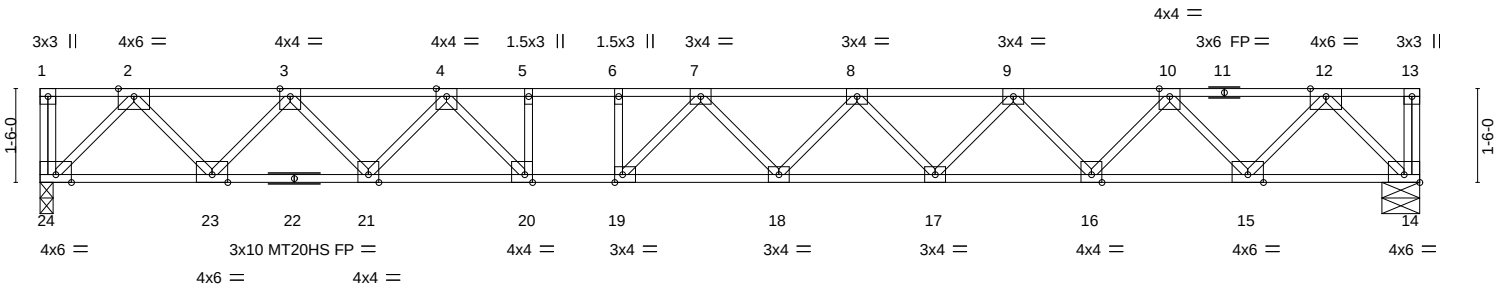
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F50	Floor	1	1	I48734630
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:52 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kmOcUV3cccLQuPd0EfPT47m1PzK9mO4T?2RPGhyKtkj

1-3-0 1-3-12

Scale = 1:36.8



22-0-12
22-0-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.37	18-19	>716	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.60	18-19	>440	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-2-8, 14=0-7-4
Max Grav 24=1418(LC 1), 14=1418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2359/0, 3-4=-3985/0, 4-5=-5301/0, 5-6=-5301/0, 6-7=-5301/0, 7-8=-5581/0, 8-9=-5075/0, 9-10=-4016/0, 10-12=-2352/0
BOT CHORD 23-24=0/1355, 21-23=0/3324, 20-21=0/4675, 19-20=0/5301, 18-19=0/5622, 17-18=0/5462, 16-17=0/4680, 15-16=0/3326, 14-15=0/1355
WEBS 2-24=-1916/0, 2-23=0/1492, 3-23=-1435/0, 3-21=0/982, 4-21=-1027/0, 4-20=0/1094, 5-20=-538/0, 12-14=-1917/0, 12-15=0/1482, 10-15=-1447/0, 10-16=0/1026, 9-16=-987/0, 9-17=0/587, 8-17=-576/0, 8-18=0/274, 7-19=-694/118, 6-19=-82/286

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F51	Floor	1	1	I48734631
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:53 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Czy?ir4ENvTHWZCCoMwicLI8RMhlVsAcDiAyo8yKtki

1-3-0 1-3-6

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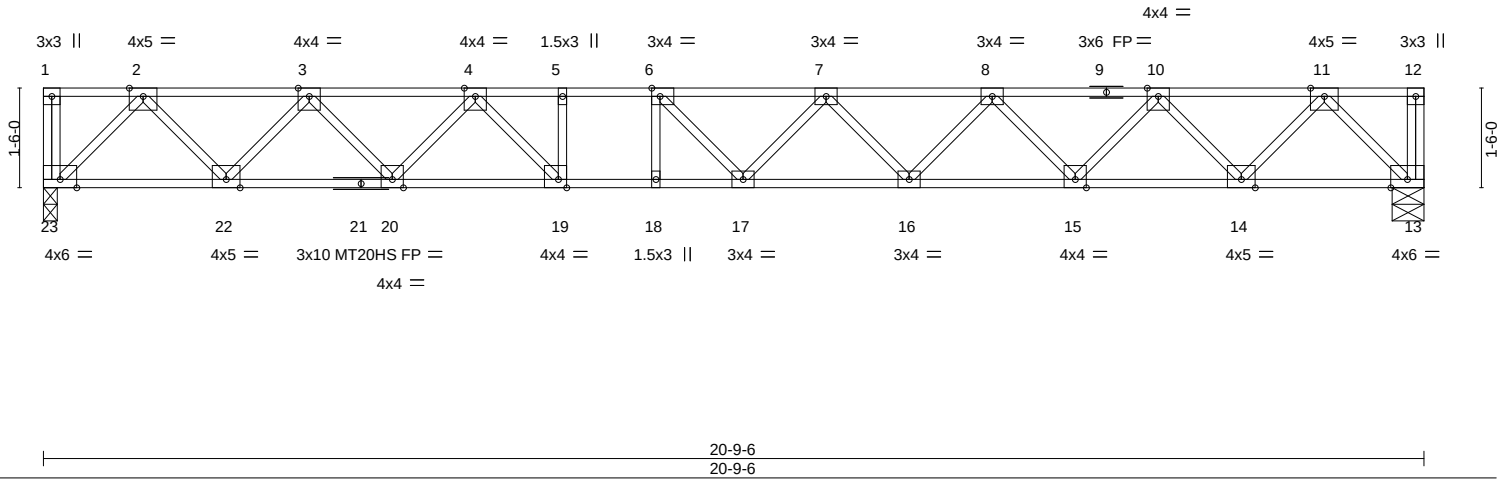

20-9-6
20-9-6

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.32	17-18	>775	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.52	17-18	>478	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-9: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 20-22.

REACTIONS. (size) 23=0-2-8, 13=0-5-12
Max Grav 23=1334(LC 1), 13=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2200/0, 3-4=-3678/0, 4-5=-4797/0, 5-6=-4797/0, 6-7=-4937/0, 7-8=-4622/0, 8-10=-3702/0, 10-11=-2193/0
BOT CHORD 22-23=0/1273, 20-22=0/3088, 19-20=0/4297, 18-19=0/4797, 17-18=0/4797, 16-17=0/4943, 15-16=0/4289, 14-15=0/3089, 13-14=0/1272
WEBS 2-23=-1800/0, 2-22=0/1377, 3-22=-1321/0, 3-20=0/878, 4-20=-920/0, 4-19=0/918, 5-19=-362/0, 11-13=-1800/0, 11-14=0/1368, 10-14=-1332/0, 10-15=0/911, 8-15=-874/0, 8-16=0/494, 7-16=-478/0, 6-17=-221/447, 6-18=-363/12

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

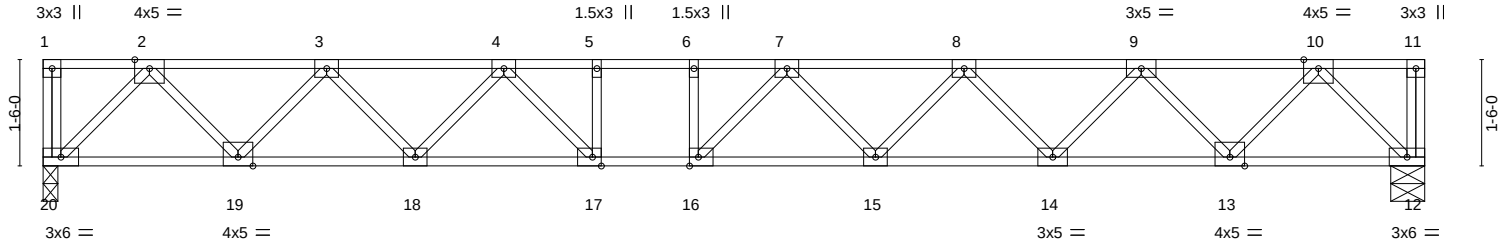
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F52	Floor	1	1	I48734632
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:53 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Czy?ir4ENvTHWZCCoMwicLIACMmoVt0cDiAyo8yKtki

1-3-0 1-2-15

Scale = 1:32.5



19-5-15
19-5-15

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	15-16	>900	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.42	15-16	>552	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 106 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-8, 12=0-5-12
Max Grav 20=1251(LC 1), 12=1251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2038/0, 3-4=-3375/0, 4-5=-4279/0, 5-6=-4279/0, 6-7=-4279/0, 7-8=-4166/0, 8-9=-3389/0, 9-10=-2035/0
BOT CHORD 19-20=0/1189, 18-19=0/2854, 17-18=0/3904, 16-17=0/4279, 15-16=0/4363, 14-15=0/3914, 13-14=0/2852, 12-13=0/1190
WEBS 2-20=-1682/0, 2-19=0/1262, 3-19=-1214/0, 3-18=0/774, 4-18=-785/0, 4-17=0/754, 5-17=-342/0, 10-12=-1683/0, 10-13=0/1256, 9-13=-1215/0, 9-14=0/799, 8-14=-780/0, 8-15=0/374, 7-15=-351/0, 7-16=-373/280

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

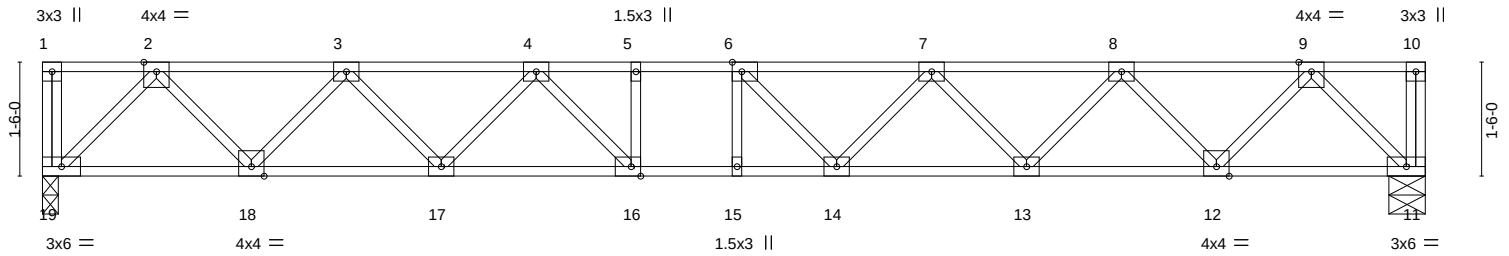
Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F53	Floor	1	1	I48734633
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:54 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-g9WNvB4s7Db88jnOM4Rx9YrMGm0jEL7mSMwWKayKtkh

1-3-0 1-2-8

Scale = 1:30.3



18-2-8
18-2-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.21	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.34	14-15	>638	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 99 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-16,14-15.

REACTIONS. (size) 19=0-2-8, 11=0-5-12
Max Grav 19=1167(LC 1), 11=1167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1878/0, 3-4=-3069/0, 4-5=-3780/0, 5-6=-3780/0, 6-7=-3686/0, 7-8=-3083/0, 8-9=-1874/0
BOT CHORD 18-19=0/1106, 17-18=0/2620, 16-17=0/3516, 15-16=0/3780, 14-15=0/3780, 13-14=0/3534, 12-13=0/2615, 11-12=0/1107
WEBS 2-19=-1564/0, 2-18=0/1148, 3-18=-1103/0, 3-17=0/667, 4-17=-664/0, 4-16=0/610, 9-11=-1566/0, 9-12=0/1141, 8-12=-1101/0, 8-13=0/696, 7-13=-671/0, 7-14=0/362, 6-14=-389/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F54	Floor	1	1	I48734634
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:55 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-8L4l6X5VuXj?ltLbvnyAimOakAQazpvvh0f3t0yKtkg

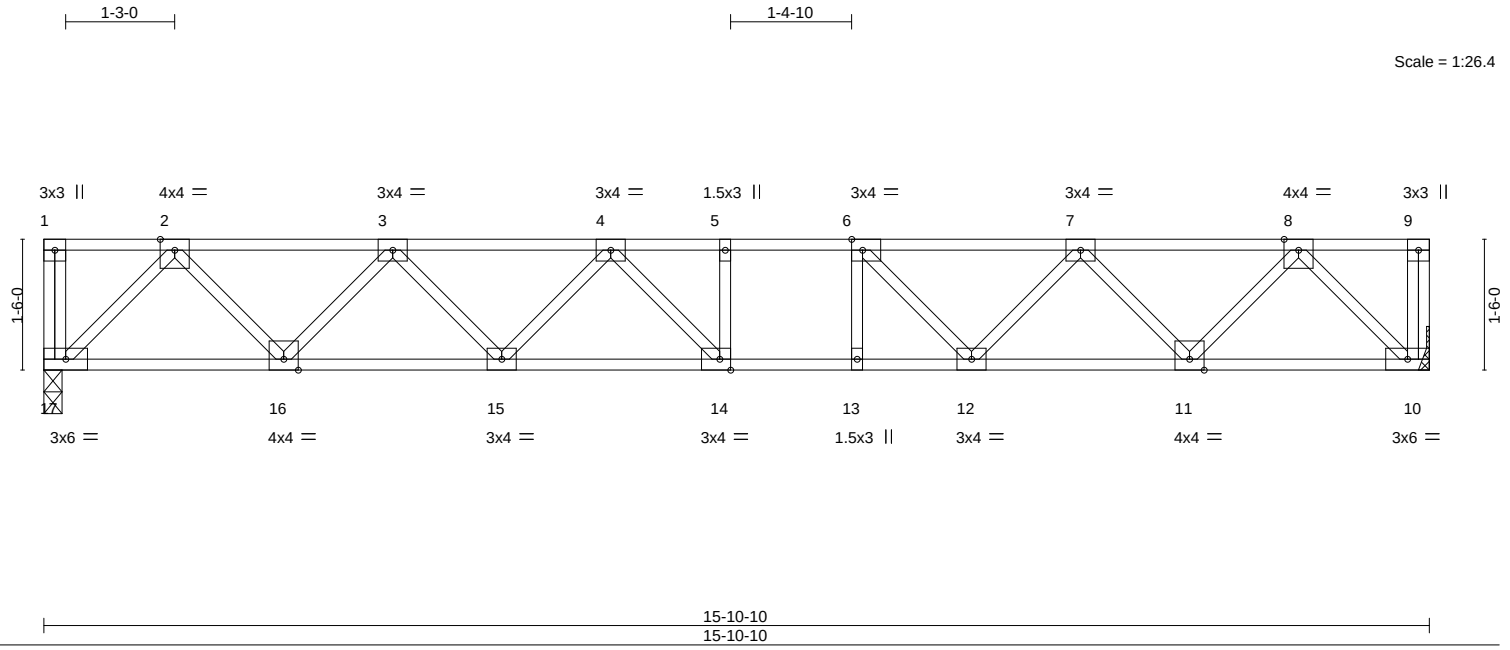

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.13	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.21	14-15	>895	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-2-8, 10=Mechanical
Max Grav 17=1016(LC 1), 10=1016(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1588/0, 3-4=-2522/0, 4-5=-2858/0, 5-6=-2858/0, 6-7=-2516/0, 7-8=-1589/0
BOT CHORD 16-17=0/955, 15-16=0/2198, 14-15=0/2813, 13-14=0/2858, 12-13=0/2858, 11-12=0/2194, 10-11=0/956
WEBS 2-17=-1350/0, 2-16=0/941, 3-16=-907/0, 3-15=0/481, 4-15=-432/0, 4-14=-165/346, 8-10=-1352/0, 8-11=0/941, 7-11=-899/0, 7-12=0/515, 6-12=-612/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F55	Floor	1	1	I48734635
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:56 2021 Page 1
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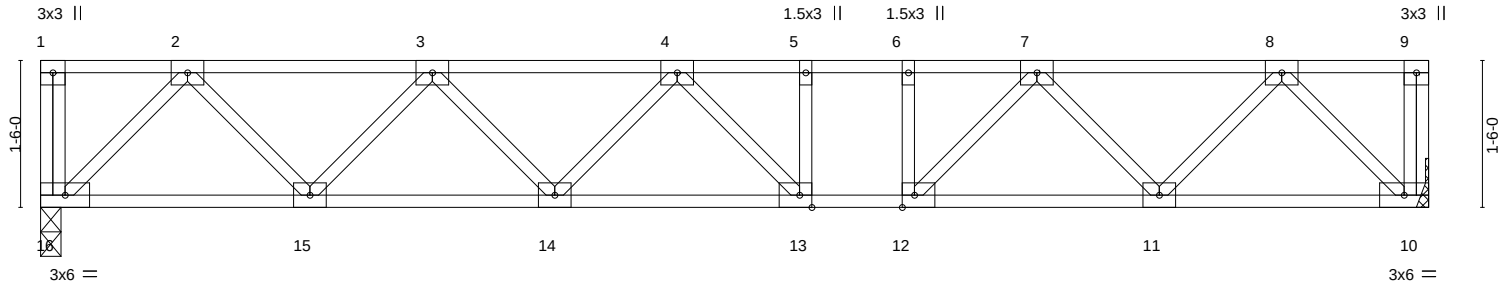

14-2-1
14-2-1

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.16	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=Mechanical
Max Grav 16=905(LC 1), 10=905(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1375/0, 3-4=-2112/0, 4-5=-2204/0, 5-6=-2204/0, 6-7=-2204/0, 7-8=-1365/0
BOT CHORD 15-16=0/844, 14-15=0/1885, 13-14=0/2297, 12-13=0/2204, 11-12=0/1872, 10-11=0/847
WEBS 2-16=-1193/0, 2-15=0/790, 3-15=-759/0, 3-14=0/337, 4-14=-275/0, 4-13=-282/151, 8-10=-1199/0, 8-11=0/769, 7-11=-755/0, 7-12=0/593, 6-12=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F56	Floor	2	1	I48734636
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:57 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5kBVXD7lQ8zj?AVz1C_enBTzQ_59RlkC8J8AxvyKtke

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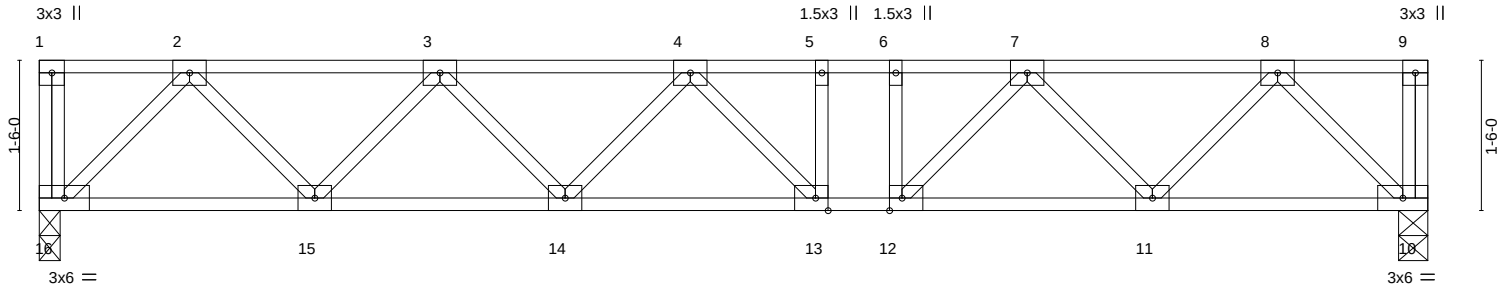

13-10-6
13-10-6

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.08	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=0-3-8
Max Grav 16=885(LC 1), 10=885(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1337/0, 3-4=-2035/0, 4-5=-2108/0, 5-6=-2108/0, 6-7=-2108/0, 7-8=-1329/0
BOT CHORD 15-16=0/824, 14-15=0/1828, 13-14=0/2205, 12-13=0/2108, 11-12=0/1816, 10-11=0/828
WEBS 2-16=-1165/0, 2-15=0/763, 3-15=-730/0, 3-14=0/307, 4-14=-253/0, 4-13=-279/125, 8-10=-1170/0, 8-11=0/745, 7-11=-724/0, 7-12=0/527, 6-12=-256/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F57	Floor	1	1	I48734637
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:57 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5kBVXD7lQ8zj?AVz1C_enBTzQ_6VRlxC8J8AxvyKtke

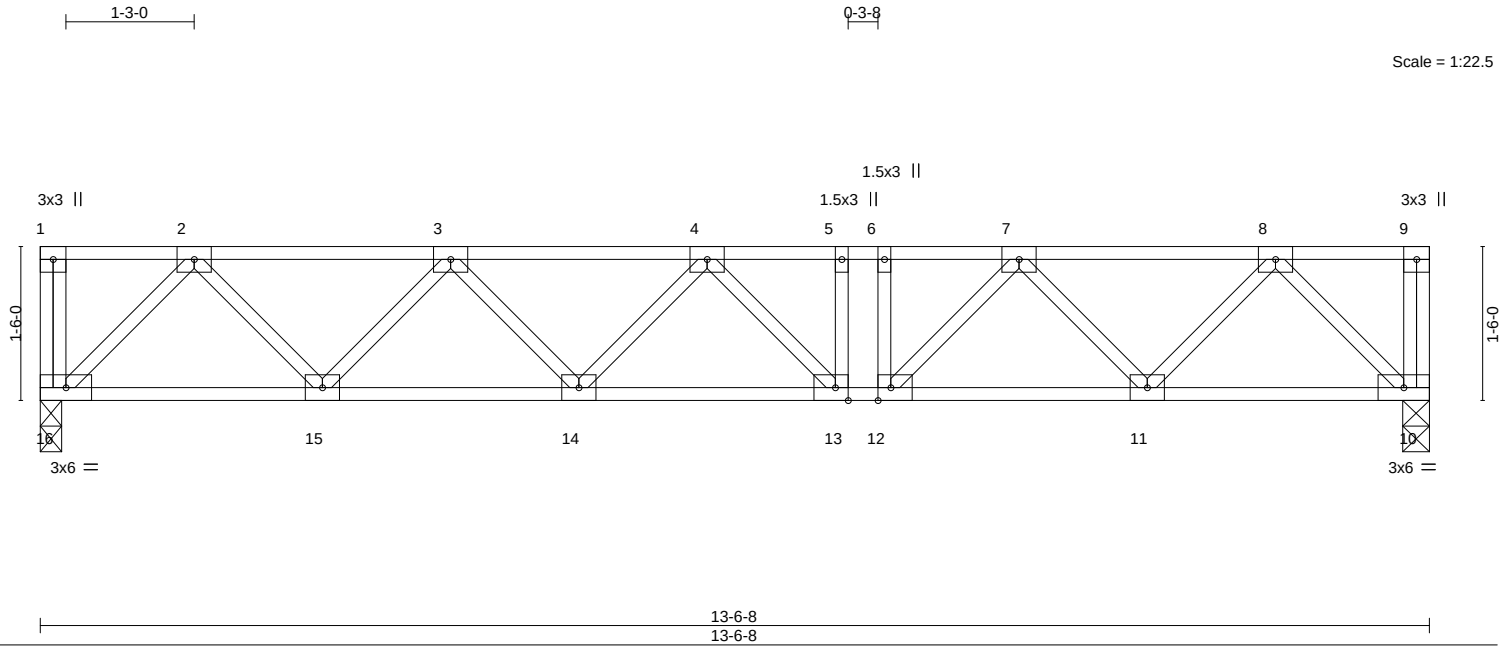

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=0-3-2
Max Grav 16=864(LC 1), 10=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1298/0, 3-4=-1954/0, 4-5=-2009/0, 5-6=-2009/0, 6-7=-2009/0, 7-8=-1291/0
BOT CHORD 15-16=0/803, 14-15=0/1769, 13-14=0/2109, 12-13=0/2009, 11-12=0/1757, 10-11=0/807
WEBS 2-16=-1135/0, 2-15=0/736, 3-15=-701/0, 3-14=0/275, 4-13=-273/98, 8-10=-1141/0, 8-11=0/721, 7-11=-691/0, 7-12=0/459

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F58	Floor	1	1	I48734638
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:58 2021 Page 1
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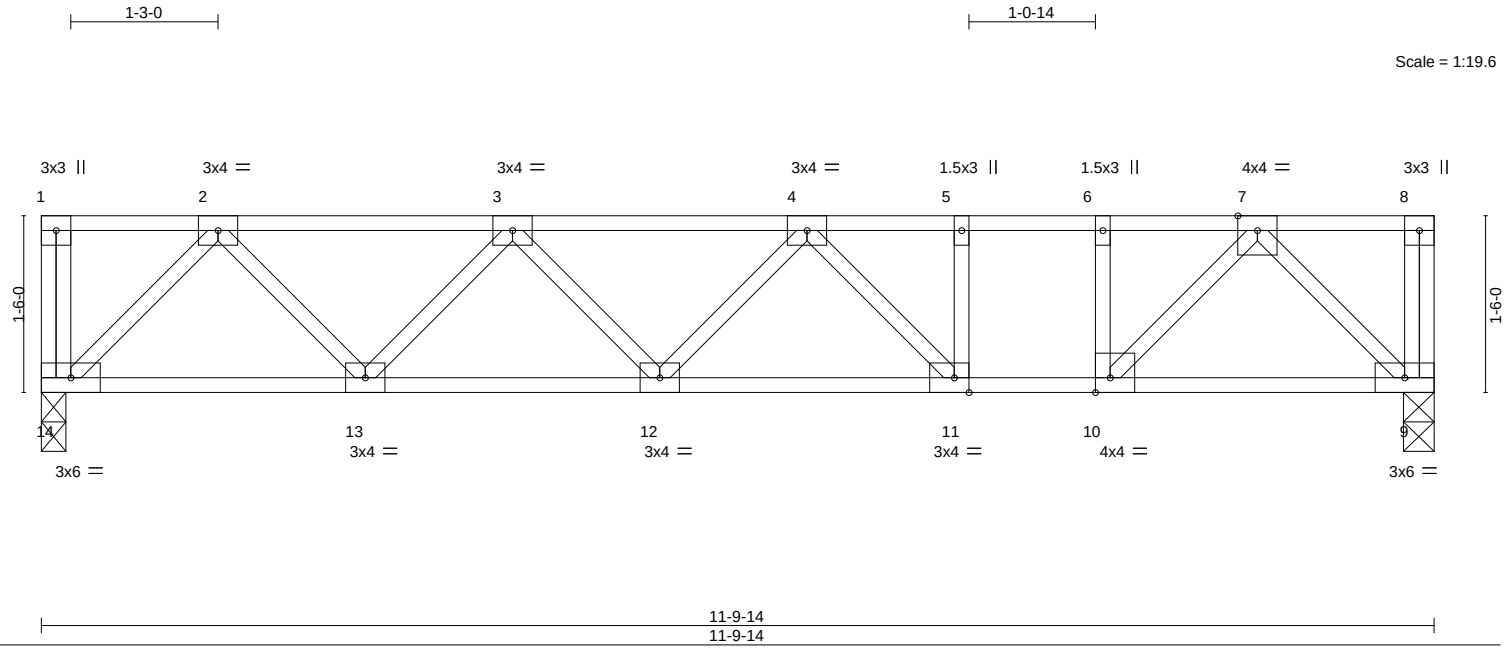

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.16	11-12	>858	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 11-12.

REACTIONS. (size) 14=0-2-8, 9=0-3-2
Max Grav 14=752(LC 1), 9=752(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1081/0, 3-4=-1555/0, 4-5=-1276/0, 5-6=-1276/0, 6-7=-1276/0
BOT CHORD 13-14=0/691, 12-13=0/1457, 11-12=0/1589, 10-11=0/1276, 9-10=0/678
WEBS 2-14=-977/0, 2-13=0/580, 3-13=-558/0, 4-11=-505/0, 7-9=-959/0, 7-10=0/866, 6-10=-460/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F59	Floor	1	1	I48734639
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:57:59 2021 Page 1
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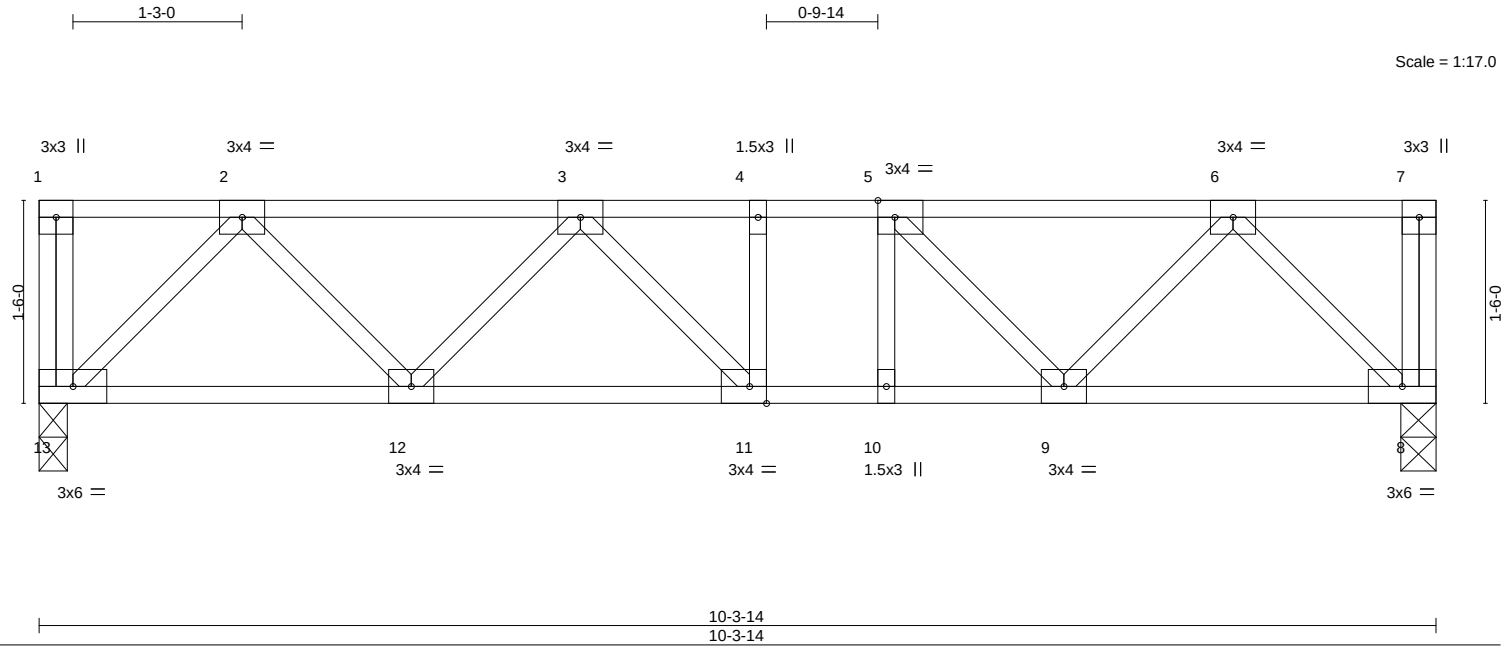

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.03	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-8, 8=0-3-2
Max Grav 13=655(LC 1), 8=655(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-898/0, 3-4=-1185/0, 4-5=-1185/0, 5-6=-895/0
BOT CHORD 12-13=0/598, 11-12=0/1169, 10-11=0/1185, 9-10=0/1185, 8-9=0/599
WEBS 2-13=-846/0, 2-12=0/445, 3-12=-402/0, 6-8=-847/0, 6-9=0/441, 5-9=-420/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F60	Floor	1	1	I48734640
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:02 2021 Page 1
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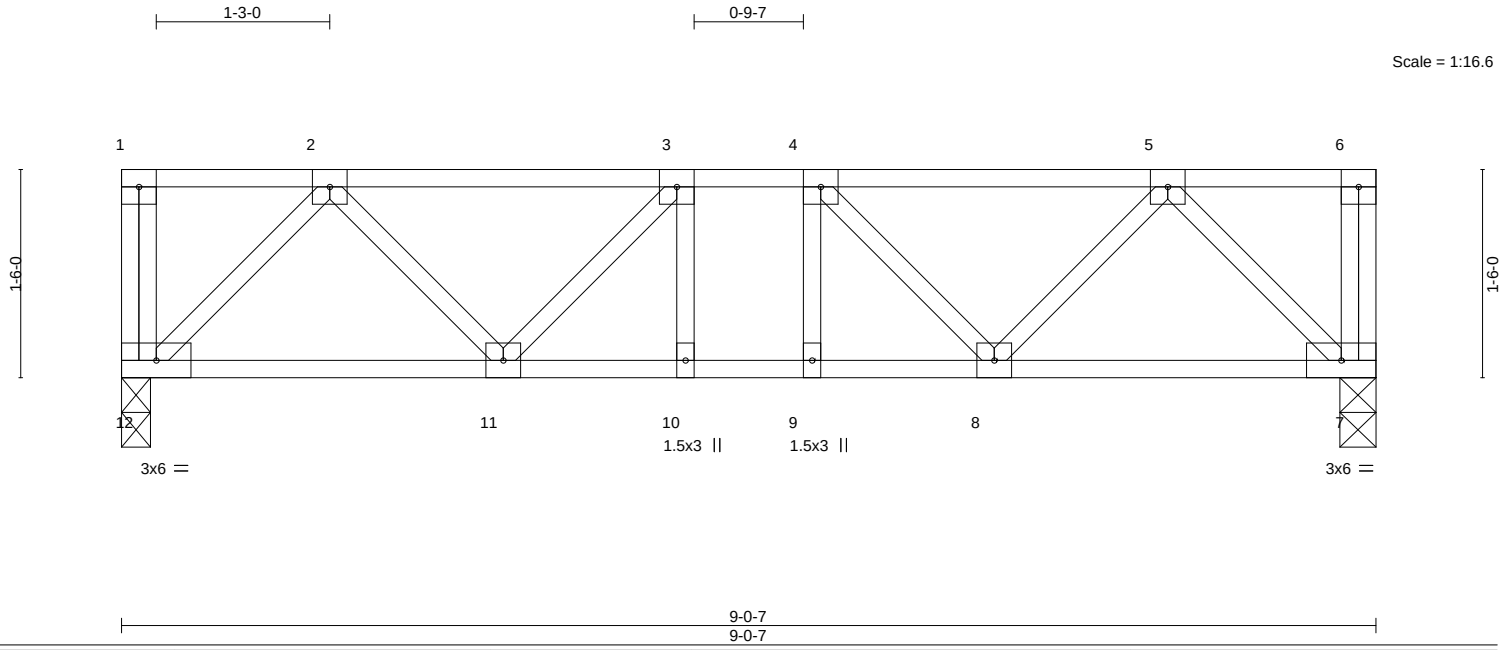

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.02	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.03	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-8, 7=0-3-2
Max Grav 12=571(LC 1), 7=571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-734/0, 3-4=-934/0, 4-5=-734/0
BOT CHORD	11-12=0/518, 10-11=0/934, 9-10=0/934, 8-9=0/934, 7-8=0/518
WEBS	2-12=-733/0, 2-11=0/320, 3-11=-300/0, 5-7=-733/0, 5-8=0/320, 4-8=-300/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F61	FLOOR	1	1	I48734641
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:03 2021 Page 1
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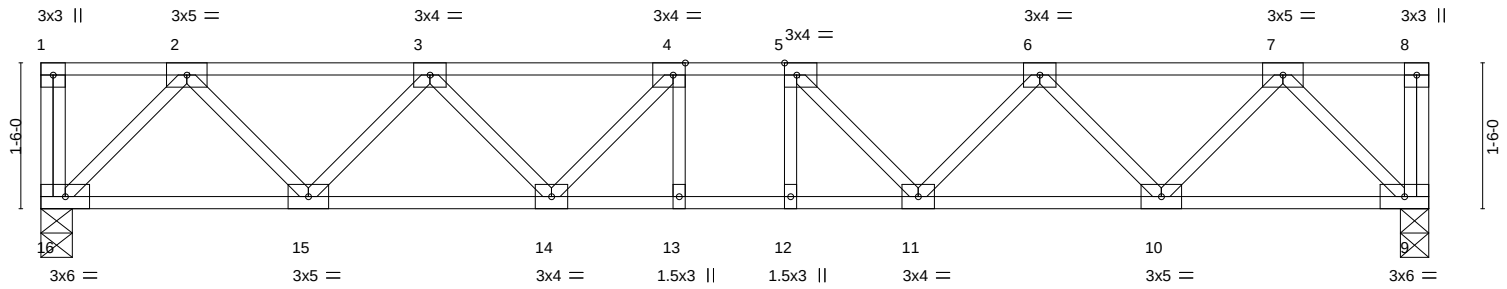

14-3-4
14-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-14, 9=0-3-8
Max Grav 16=911(LC 1), 9=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1390/0, 3-4=-2122/0, 4-5=-2332/0, 5-6=-2122/0, 6-7=-1390/0
BOT CHORD 15-16=0/849, 14-15=0/1905, 13-14=0/2332, 12-13=0/2332, 11-12=0/2332, 10-11=0/1905, 9-10=0/849
WEBS 2-16=-1201/0, 2-15=0/804, 3-15=-765/0, 3-14=0/371, 4-14=-422/0, 7-9=-1201/0, 7-10=0/804, 6-10=-765/0, 6-11=0/371, 5-11=-422/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F62	Floor	1	1	I48734642
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:04 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-O469?cC8nIsjKFXJxAcHZfG88oV4avTElvL2h?yKtkX

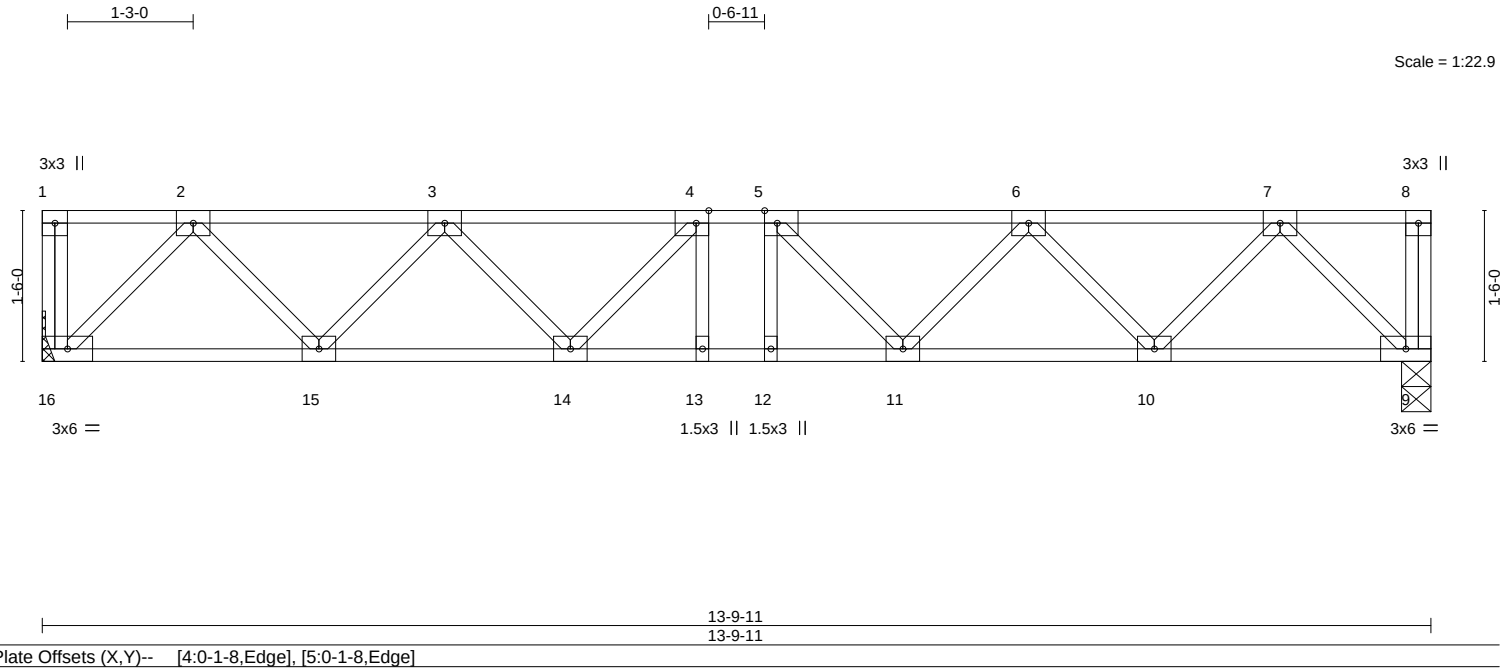

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=881(LC 1), 9=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1332/0, 3-4=-2011/0, 4-5=-2192/0, 5-6=-2011/0, 6-7=-1332/0
BOT CHORD 15-16=0/819, 14-15=0/1819, 13-14=0/2192, 12-13=0/2192, 11-12=0/2192, 10-11=0/1819, 9-10=0/819
WEBS 2-16=-1159/0, 2-15=0/763, 3-15=-723/0, 3-14=0/330, 4-14=-360/0, 7-9=-1159/0, 7-10=0/763, 6-10=-723/0, 6-11=0/330, 5-11=-360/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F63	Floor	2	1	I48734643
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:05 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sGgXDyDmYb_ayP6WVu7W5toJuCrJJMjN_Z4bDRyKtkW

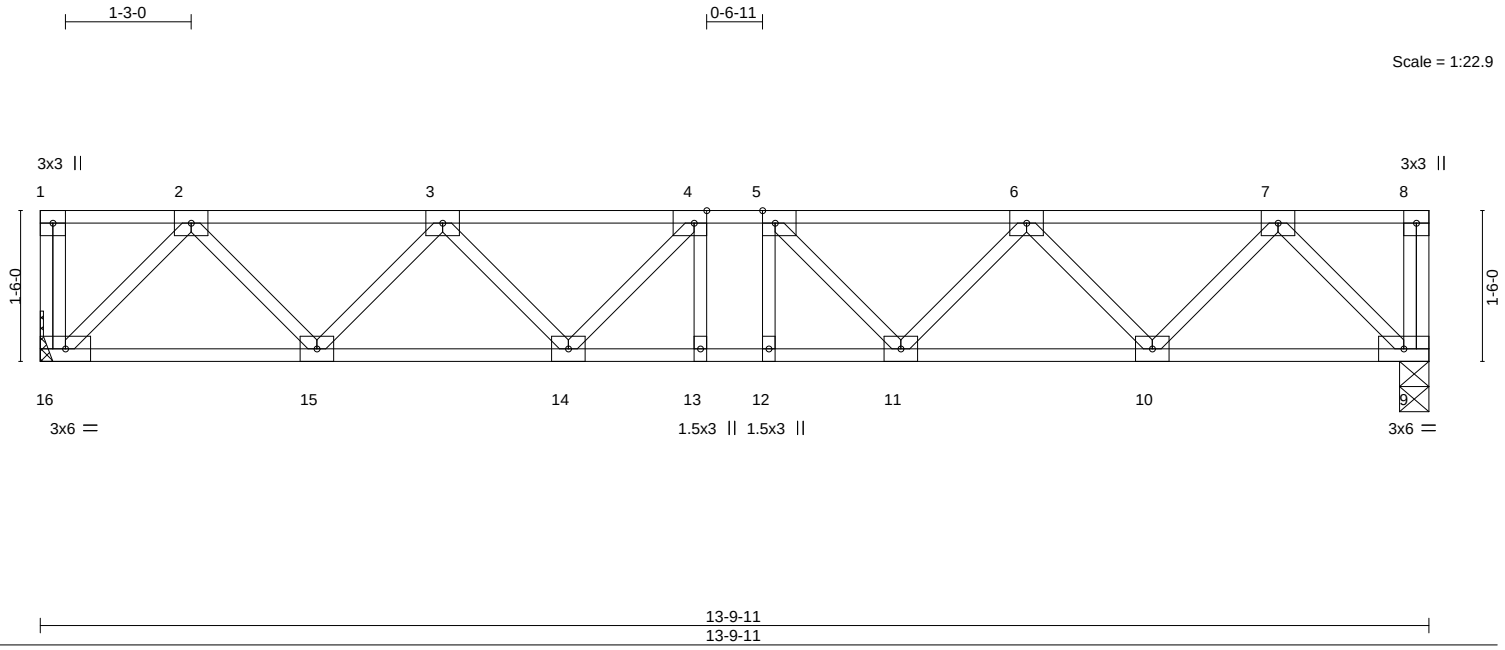

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=881(LC 1), 9=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1332/0, 3-4=-2011/0, 4-5=-2192/0, 5-6=-2011/0, 6-7=-1332/0
BOT CHORD 15-16=0/819, 14-15=0/1819, 13-14=0/2192, 12-13=0/2192, 11-12=0/2192, 10-11=0/1819, 9-10=0/819
WEBS 2-16=-1159/0, 2-15=0/763, 3-15=-723/0, 3-14=0/330, 4-14=-360/0, 7-9=-1159/0, 7-10=0/763, 6-10=-723/0, 6-11=0/330, 5-11=-360/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F64	Floor	1	1	I48734644
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:06 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KTEvQIEOJv6RaZhi2bfle4LTwc8U2oUXDDq9mtyKtkV

1-3-0 1-3-8

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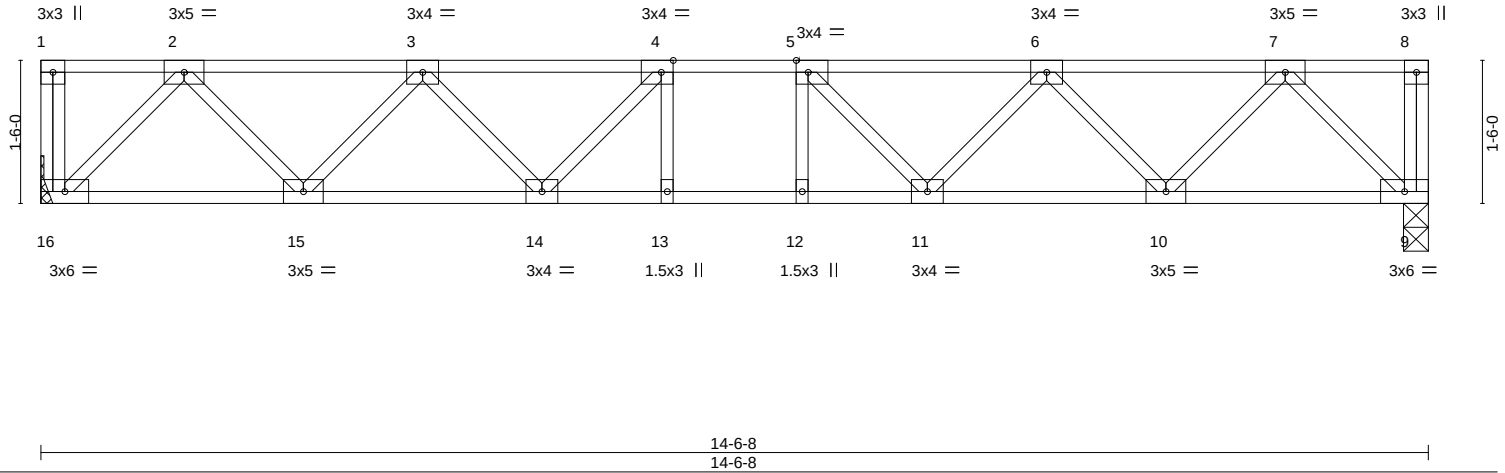

14-6-8
14-6-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-2
Max Grav 16=929(LC 1), 9=929(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1423/0, 3-4=-2187/0, 4-5=-2414/0, 5-6=-2187/0, 6-7=-1423/0
BOT CHORD 15-16=0/867, 14-15=0/1954, 13-14=0/2414, 12-13=0/2414, 11-12=0/2414, 10-11=0/1954, 9-10=0/867
WEBS 2-16=-1226/0, 2-15=0/827, 3-15=-788/0, 3-14=0/396, 4-14=-459/0, 7-9=-1226/0, 7-10=0/827, 6-10=-788/0, 6-11=0/396, 5-11=-459/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F65	Floor	1	1	I48734645
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ofoHeeE04DEIBjGucJA_Blucj0UOnEegRtZiIKyKtkU

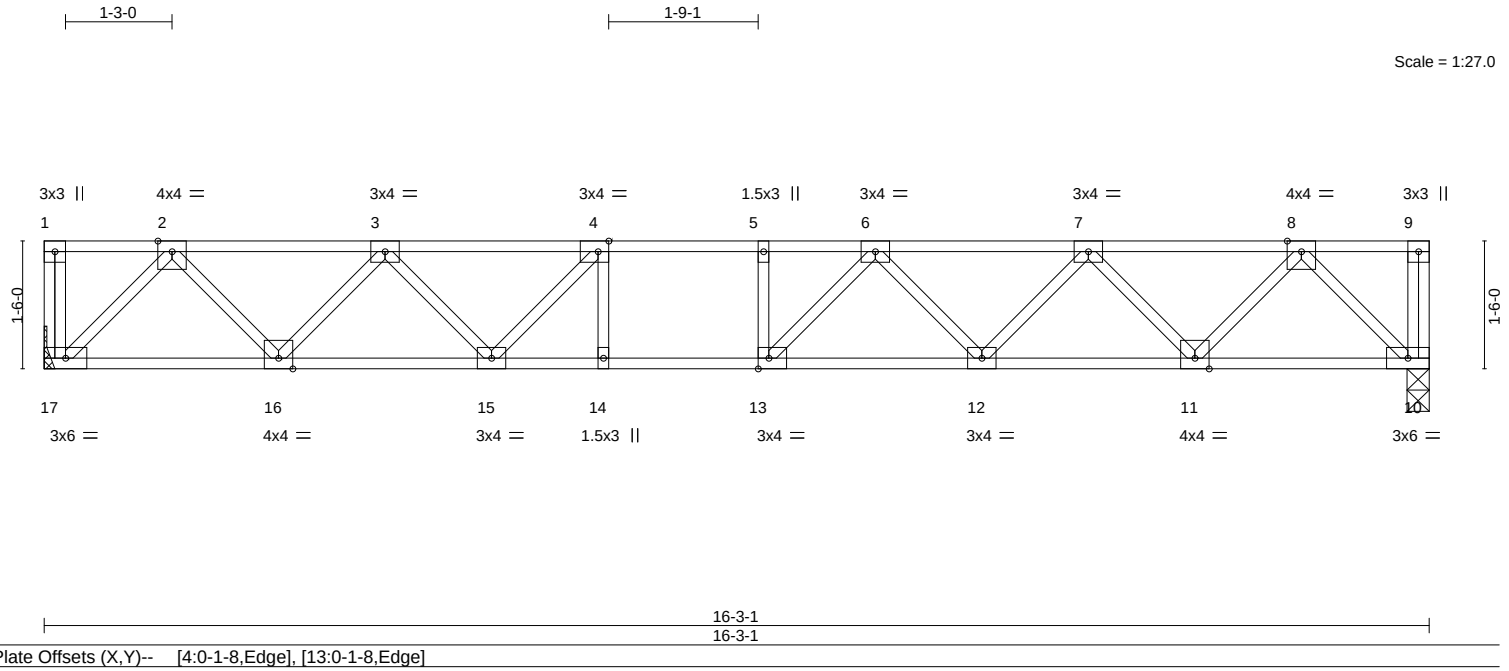

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.17	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.26	12-13	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-2
Max Grav 17=1040(LC 1), 10=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1634/0, 3-4=-2606/0, 4-5=-2986/0, 5-6=-2986/0, 6-7=-2612/0, 7-8=-1633/0
BOT CHORD 16-17=0/981, 15-16=0/2258, 14-15=0/2986, 13-14=0/2986, 12-13=0/2920, 11-12=0/2266, 10-11=0/978
WEBS 2-17=-1387/0, 2-16=0/971, 3-16=-927/0, 3-15=0/556, 4-15=-681/0, 8-10=-1383/0, 8-11=0/973, 7-11=-941/0, 7-12=0/515, 6-12=-458/0, 6-13=-148/393

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F66	Floor	1	1	I48734646
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:08 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GrMgr_FfqWM9psr5A0hDjVQqpPrDWiQqgXJFqmyKtkT

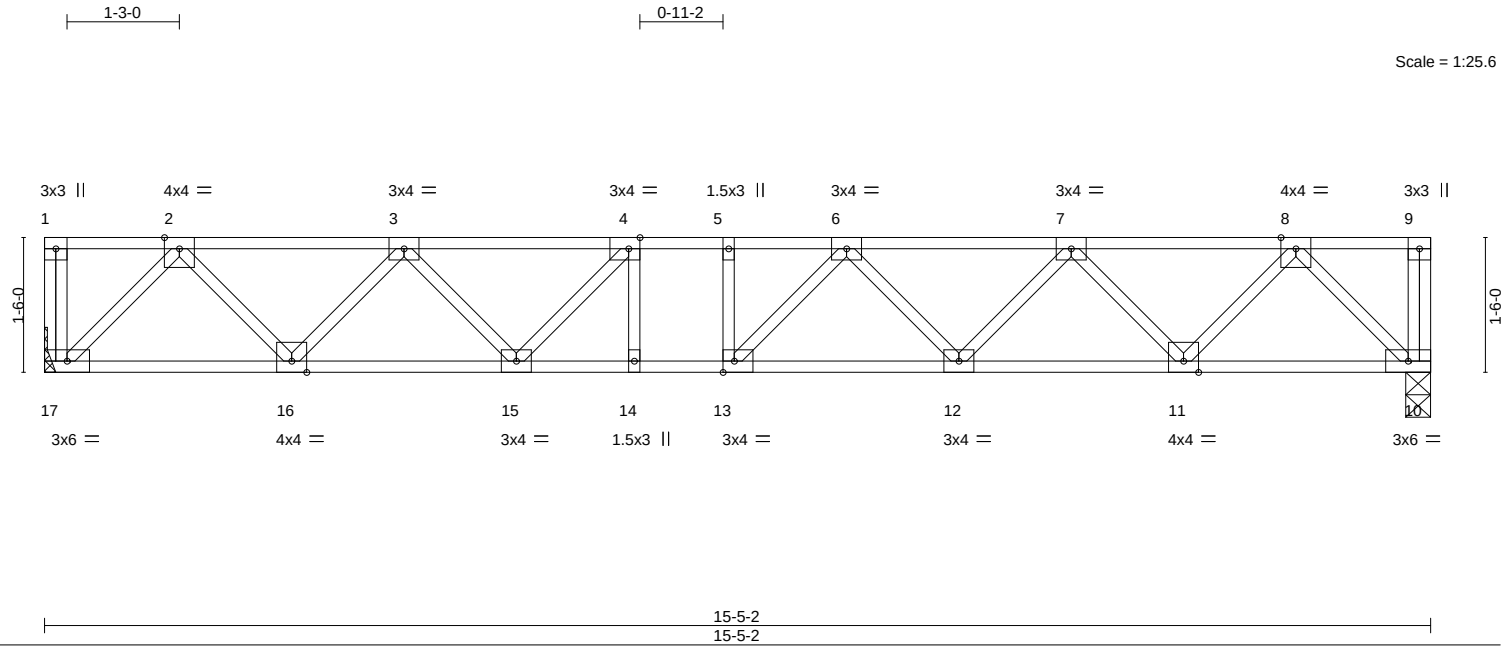

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.11	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.18	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 86 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-5
Max Grav 17=986(LC 1), 10=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1532/0, 3-4=-2404/0, 4-5=-2700/0, 5-6=-2700/0, 6-7=-2408/0, 7-8=-1531/0
BOT CHORD 16-17=0/925, 15-16=0/2112, 14-15=0/2700, 13-14=0/2700, 12-13=0/2676, 11-12=0/2113, 10-11=0/925
WEBS 2-17=-1309/0, 2-16=0/902, 3-16=-862/0, 3-15=0/468, 4-15=-525/0, 8-10=-1308/0, 8-11=0/901, 7-11=-865/0, 7-12=0/438, 6-12=-398/0, 6-13=-183/292

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F67	Floor	1	1	I48734647
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:08 2021 Page 1
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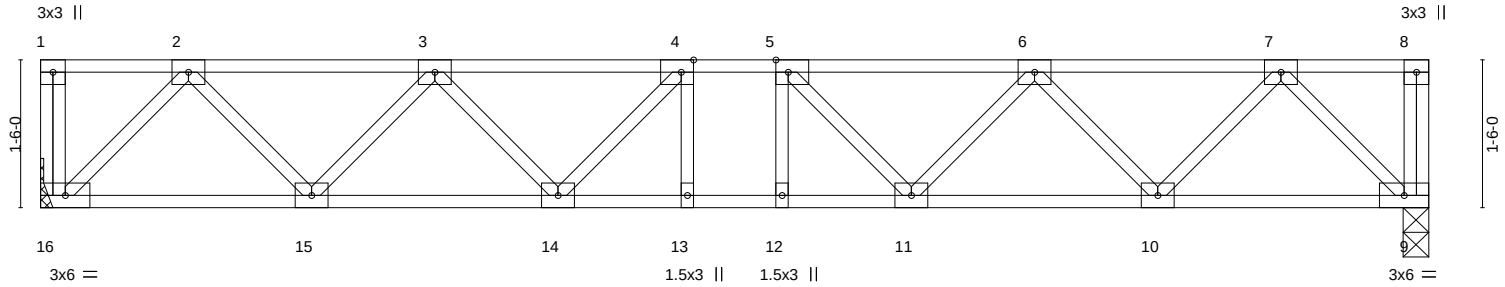

14-1-0
14-1-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.12	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-2
Max Grav 16=899(LC 1), 9=899(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1367/0, 3-4=-2078/0, 4-5=-2276/0, 5-6=-2078/0, 6-7=-1367/0
BOT CHORD 15-16=0/837, 14-15=0/1871, 13-14=0/2276, 12-13=0/2276, 11-12=0/2276, 10-11=0/1871, 9-10=0/837
WEBS 2-16=-1184/0, 2-15=0/788, 3-15=-749/0, 3-14=0/354, 4-14=-397/0, 7-9=-1184/0, 7-10=0/788, 6-10=-749/0, 6-11=0/354, 5-11=-397/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F68	Floor	1	1	I48734648
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-k2w23JGHbqU0R0QHkkCSGjz_Qp81F9RzvB2pMCyKtkS

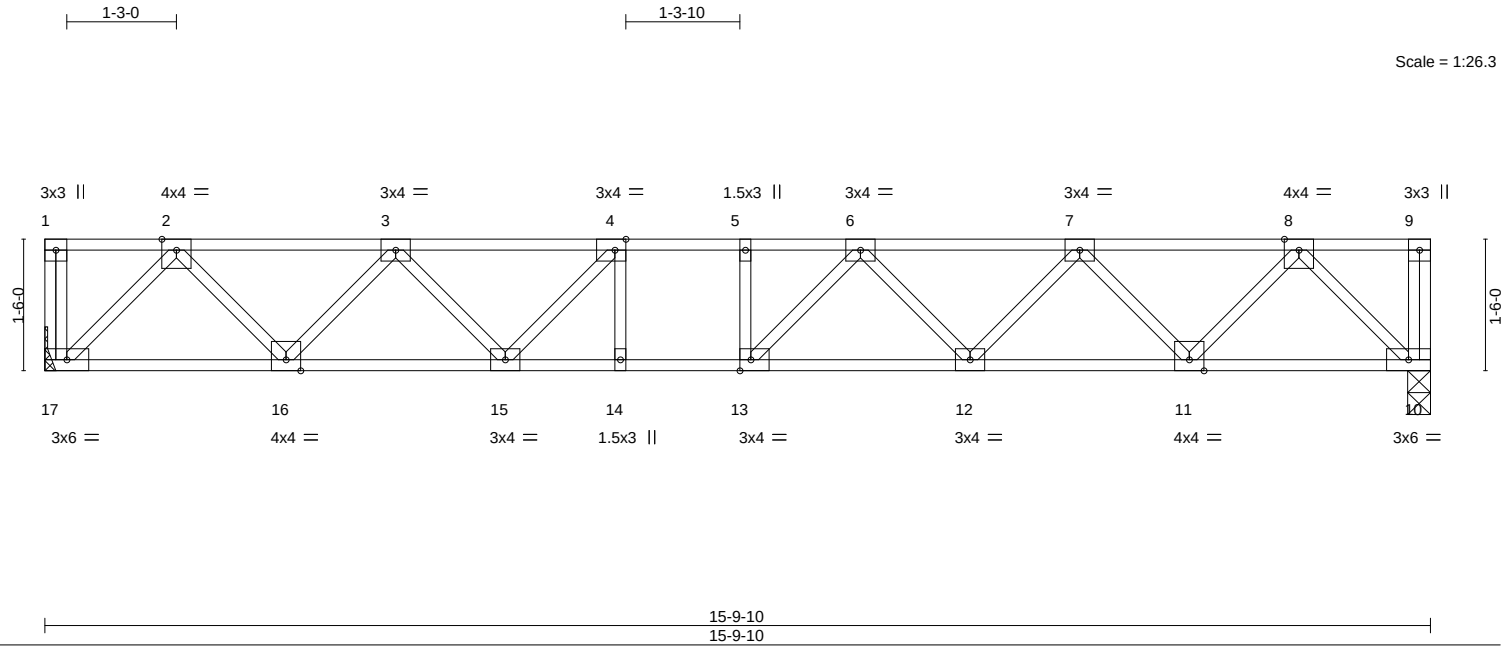

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.21	12-13	>878	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-2
Max Grav 17=1011(LC 1), 10=1011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1578/0, 3-4=-2495/0, 4-5=-2828/0, 5-6=-2828/0, 6-7=-2500/0, 7-8=-1577/0
BOT CHORD 16-17=0/950, 15-16=0/2178, 14-15=0/2828, 13-14=0/2828, 12-13=0/2787, 11-12=0/2182, 10-11=0/949
WEBS 2-17=-1344/0, 2-16=0/934, 3-16=-892/0, 3-15=0/509, 4-15=-593/0, 8-10=-1342/0, 8-11=0/934, 7-11=-899/0, 7-12=0/473, 6-12=-426/0, 6-13=-171/337

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F69	Floor	1	1	I48734649
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CEUQGfHvM8ct2A?THRjhowV5sDYW_bs68roMvfyKtkR

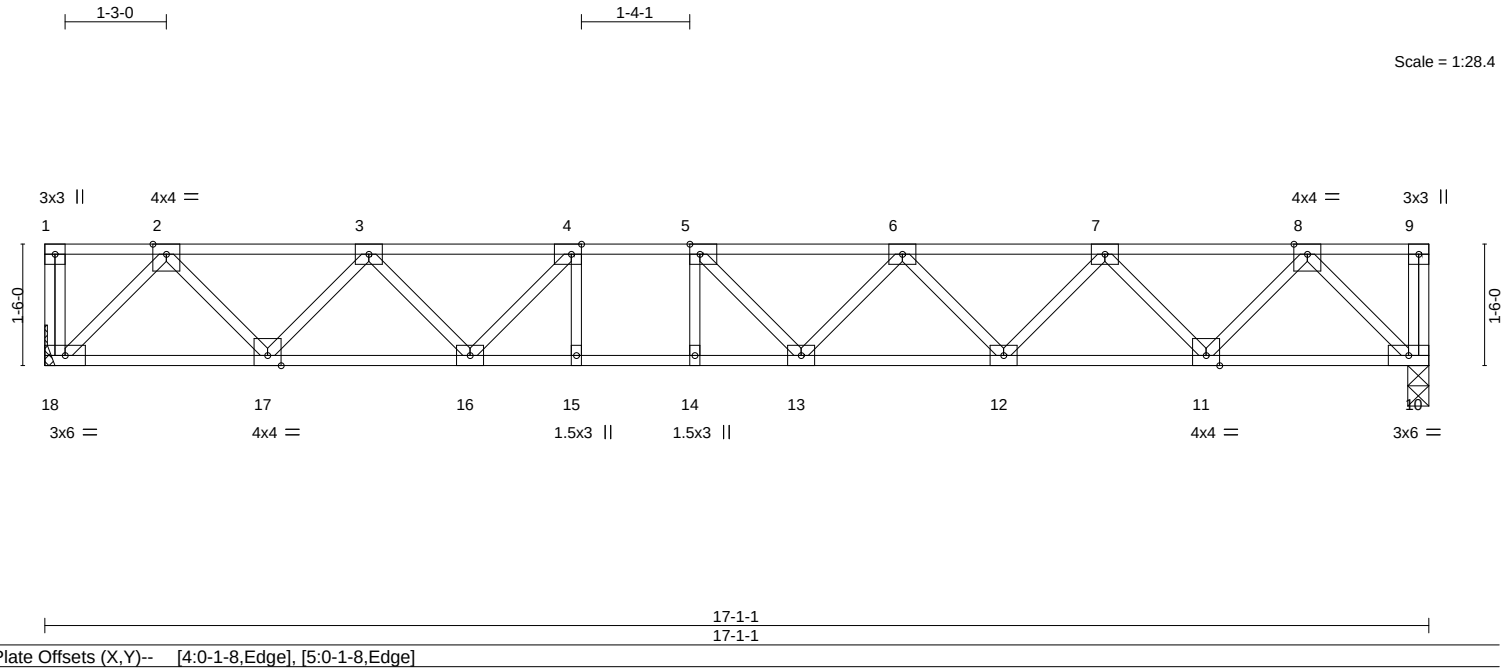

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.26	13-14	>766	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 94 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 10=0-3-2
Max Grav 18=1094(LC 1), 10=1094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1738/0, 3-4=-2801/0, 4-5=-3274/0, 5-6=-3284/0, 6-7=-2813/0, 7-8=-1736/0
BOT CHORD 17-18=0/1036, 16-17=0/2407, 15-16=0/3274, 14-15=0/3274, 13-14=0/3274, 12-13=0/3202, 11-12=0/2409, 10-11=0/1035
WEBS 2-18=-1465/0, 2-17=0/1045, 3-17=-994/0, 3-16=0/604, 4-16=-785/0, 4-15=-43/332, 8-10=-1464/0, 8-11=0/1042, 7-11=-1001/0, 7-12=0/600, 6-12=-579/0, 6-13=-19/269, 5-13=-280/240, 5-14=-308/67

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F70	Floor	1	1	I48734650
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:13 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dp9ZuhJnf3_Rvek2zZHOQZ7cYQbZBxjZqp00VzyKtkO

1-3-0 1-4-8

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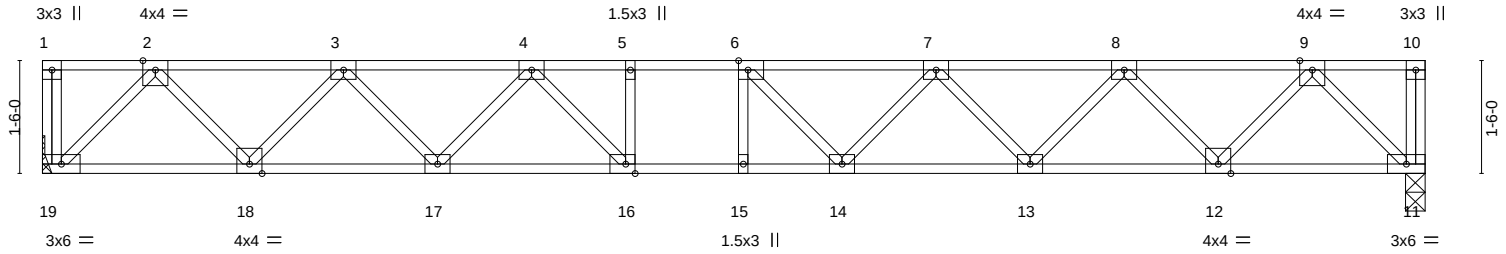

18-4-8
18-4-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.20	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.32	14-15	>673	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 100 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 11=0-3-2
Max Grav 19=1178(LC 1), 11=1178(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1899/0, 3-4=-3108/0, 4-5=-3847/0, 5-6=-3847/0, 6-7=-3747/0, 7-8=-3123/0, 8-9=-1895/0
BOT CHORD 18-19=0/1117, 17-18=0/2650, 16-17=0/3568, 15-16=0/3847, 14-15=0/3847, 13-14=0/3585, 12-13=0/2645, 11-12=0/1118
WEBS 2-19=-1579/0, 2-18=0/1163, 3-18=-1116/0, 3-17=0/681, 4-17=-684/0, 4-16=0/634, 9-11=-1581/0, 9-12=0/1155, 8-12=-1115/0, 8-13=0/710, 7-13=-686/0, 7-14=0/375, 6-14=-415/140

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F71	Floor	1	1	I48734651
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:14 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5?jx61KPQM6IXoIEWHodzmgnUqxKwNAi2Tma2QyKtkN

1-3-0 1-4-15

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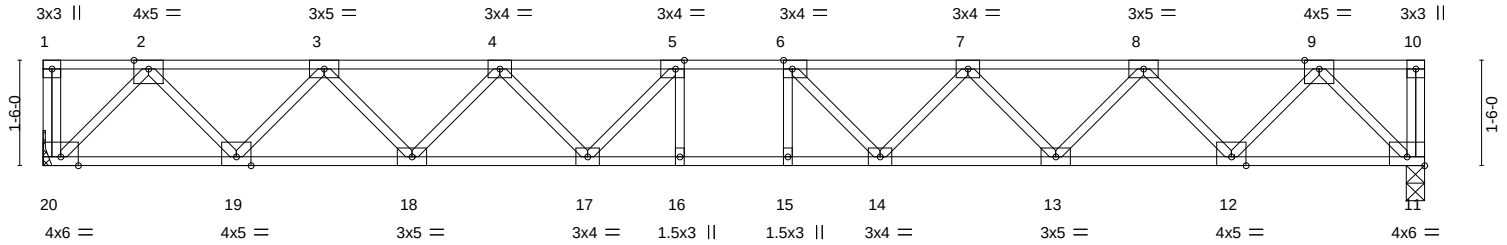

19-7-15
19-7-15

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.24	15-16	>990	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.38	15-16	>609	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 106 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 11=0-3-2
Max Grav 20=1262(LC 1), 11=1262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2054/0, 3-4=-3435/0, 4-5=-4208/0, 5-6=-4446/0, 6-7=-4208/0, 7-8=-3435/0, 8-9=-2054/0
BOT CHORD 19-20=0/1201, 18-19=0/2883, 17-18=0/3965, 16-17=0/4446, 15-16=0/4446, 14-15=0/4446, 13-14=0/3965, 12-13=0/2883, 11-12=0/1201
WEBS 2-20=-1698/0, 2-19=0/1269, 3-19=-1231/0, 3-18=0/821, 4-18=-788/0, 4-17=0/475, 5-17=-591/30, 9-11=-1698/0, 9-12=0/1269, 8-12=-1231/0, 8-13=0/821, 7-13=-788/0, 7-14=0/475, 6-14=-591/30

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F72	Floor	1	1	I48734652
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:15 2021 Page 1
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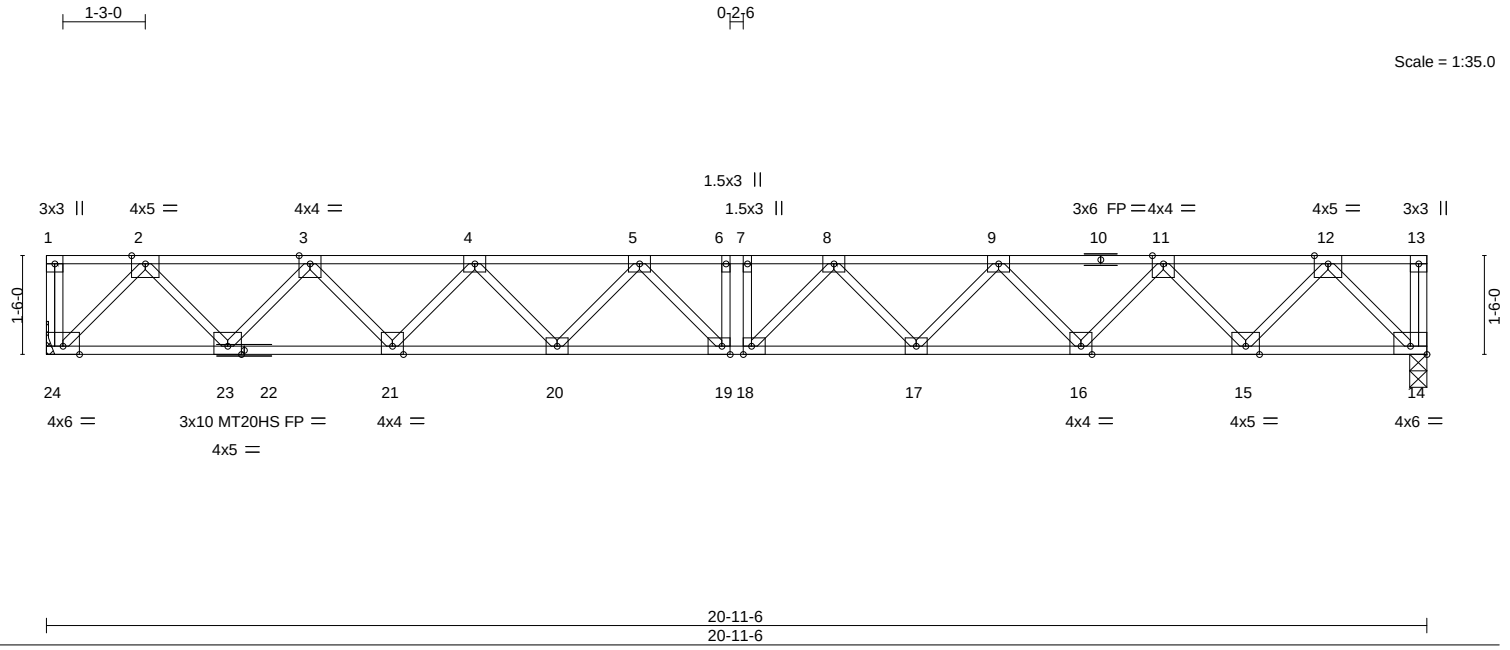

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.33	19	>749	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.54	19	>461	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20,17-18.

REACTIONS. (size) 24=Mechanical, 14=0-3-2
Max Grav 24=1346(LC 1), 14=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2214/0, 3-4=-3745/0, 4-5=-4677/0, 5-6=-5051/0, 6-7=-5051/0, 7-8=-5051/0, 8-9=-4677/0, 9-11=-3745/0, 11-12=-2214/0
BOT CHORD 23-24=0/1284, 21-23=0/3119, 20-21=0/4350, 19-20=0/4980, 18-19=0/5051, 17-18=0/4980, 16-17=0/4350, 15-16=0/3119, 14-15=0/1284
WEBS 2-24=-1816/0, 2-23=0/1383, 3-23=-1344/0, 3-21=0/931, 4-21=-900/0, 4-20=0/486, 5-20=-458/0, 12-14=-1816/0, 12-15=0/1383, 11-15=-1344/0, 11-16=0/931, 9-16=-900/0, 9-17=0/486, 8-17=-458/0, 8-18=-205/373, 5-19=-205/373

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F73	Floor	1	1	I48734653
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:16 2021 Page 1
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1-3-0 1-5-14

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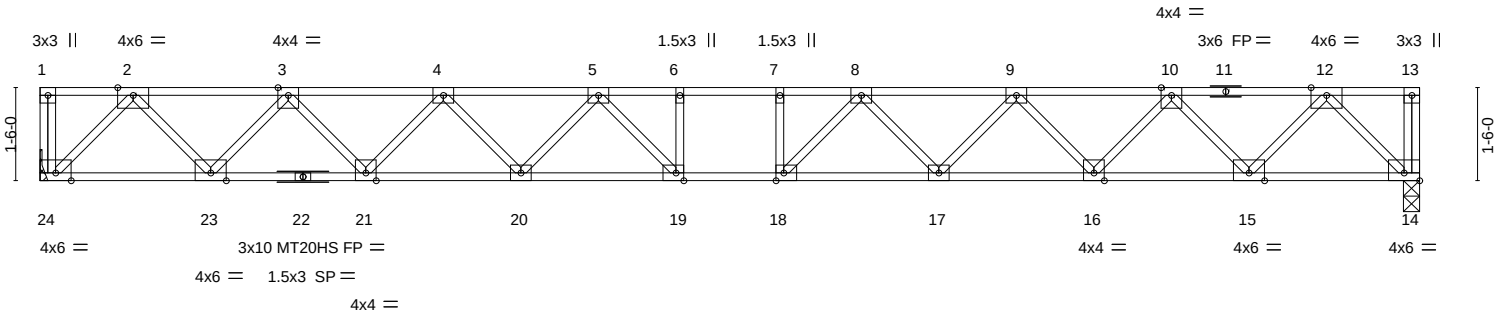

22-2-14
22-2-14

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.38	18-19	>686	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.62	18-19	>422	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=Mechanical, 14=0-3-2
Max Grav 24=1429(LC 1), 14=1429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2374/0, 3-4=-4055/0, 4-5=-5139/0, 5-6=-5680/0, 6-7=-5680/0, 7-8=-5680/0, 8-9=-5139/0, 9-10=-4055/0, 10-12=-2373/0
BOT CHORD 23-24=0/1368, 21-23=0/3353, 20-21=0/4737, 19-20=0/5516, 18-19=0/5680, 17-18=0/5516, 16-17=0/4737, 15-16=0/3353, 14-15=0/1368
WEBS 2-24=-1934/0, 2-23=0/1496, 3-23=-1456/0, 3-21=0/1043, 4-21=-1013/0, 4-20=0/597, 5-20=-585/0, 5-19=-169/607, 12-14=-1934/0, 12-15=0/1495, 10-15=-1457/0, 10-16=0/1044, 9-16=-1013/0, 9-17=0/597, 8-17=-585/0, 8-18=-170/607, 7-18=-290/13, 6-19=-290/13

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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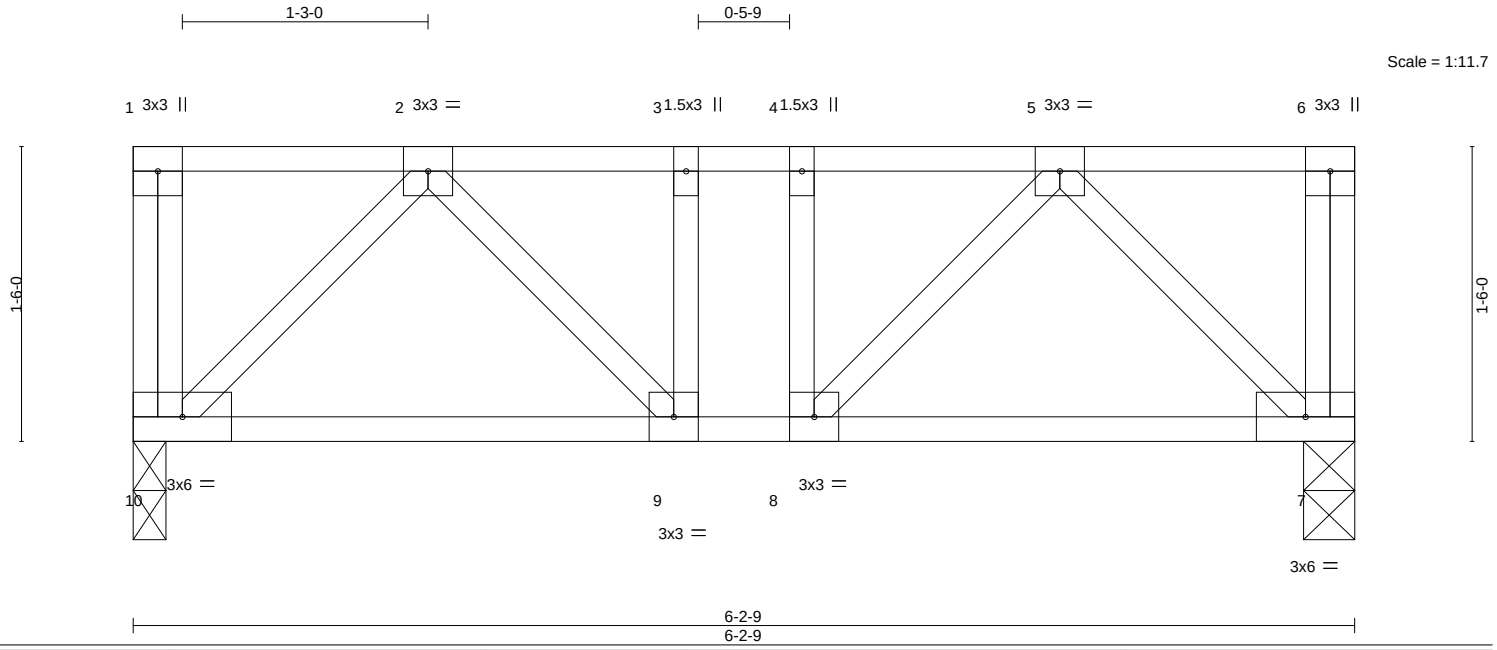
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F74	Floor	1	1	I48734654
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:17 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VaP3k3MIjHVtOF1pCPLKbPIQG2307sj8IR_EelyKtkK



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-3-2
Max Grav 10=388(LC 1), 7=388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-426/0, 3-4=-426/0, 4-5=-426/0
BOT CHORD	9-10=0/311, 8-9=0/426, 7-8=0/311
WEBS	2-10=-440/0, 5-7=-440/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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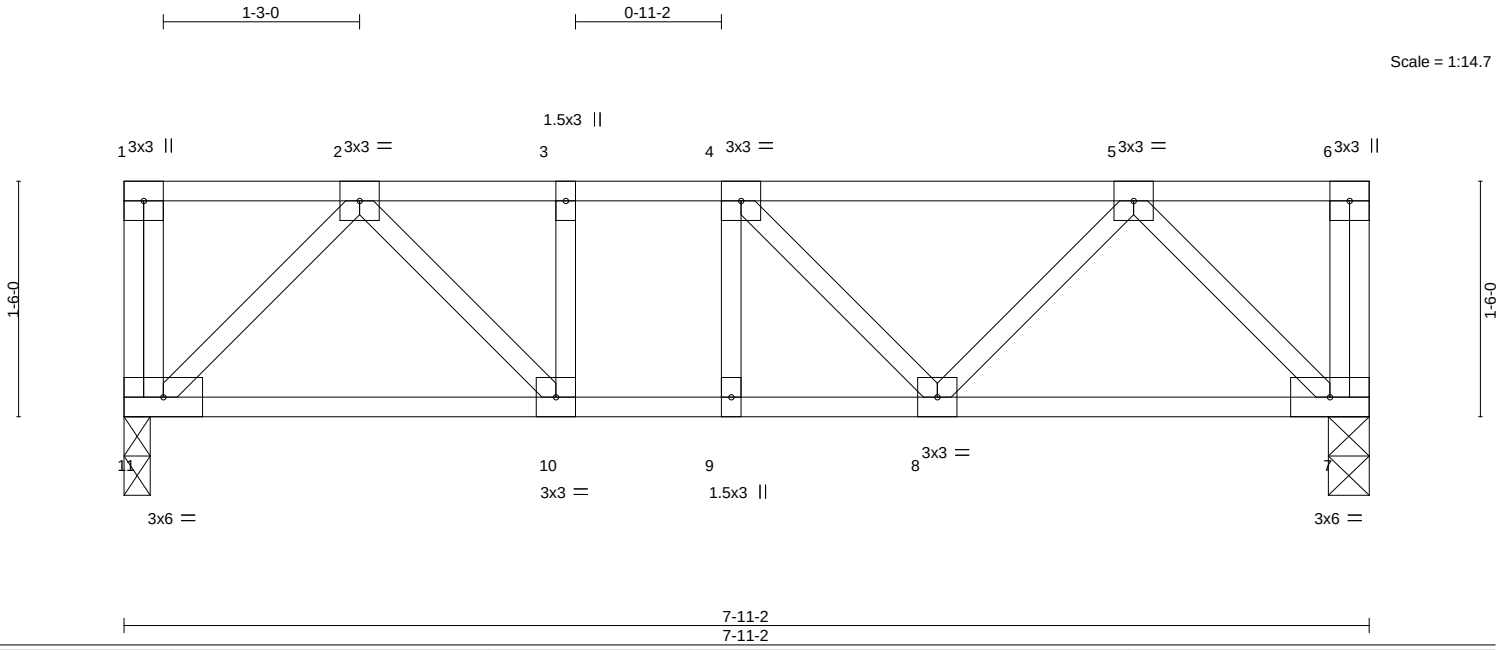
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F75	Floor	1	1	I48734655
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:18 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zmzSxONwUbdk0Pc0l7sZ7crX0RK9sIkIz5knBByKtkJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-3-2
Max Grav 11=499(LC 1), 7=499(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-684/0, 3-4=-684/0, 4-5=-596/0
BOT CHORD	10-11=0/426, 9-10=0/684, 8-9=0/684, 7-8=0/454
WEBS	2-11=-602/0, 2-10=0/388, 5-7=-642/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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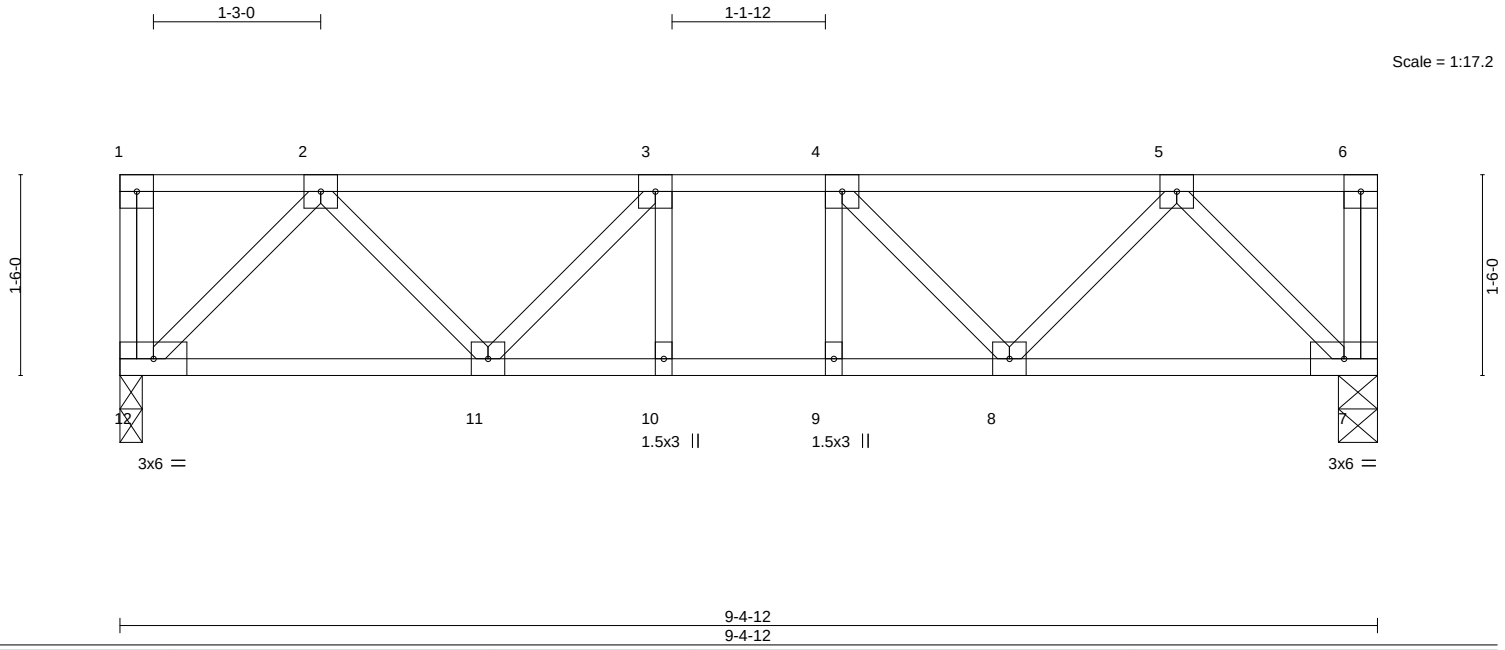
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F76	Floor	3	1	I48734656
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:18 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zmzSxONwUbdk0Pc0l7sZ7crYORLlsIIIz5knBByKtkJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-3-8
Max Grav 12=594(LC 1), 7=594(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-778/0, 3-4=-1000/0, 4-5=-778/0
BOT CHORD	11-12=0/542, 10-11=0/1000, 9-10=0/1000, 8-9=0/1000, 7-8=0/542
WEBS	2-12=-766/0, 2-11=0/350, 3-11=-340/0, 5-7=-766/0, 5-8=0/350, 4-8=-340/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F77	Floor	7	1	I48734657
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:19 2021 Page 1
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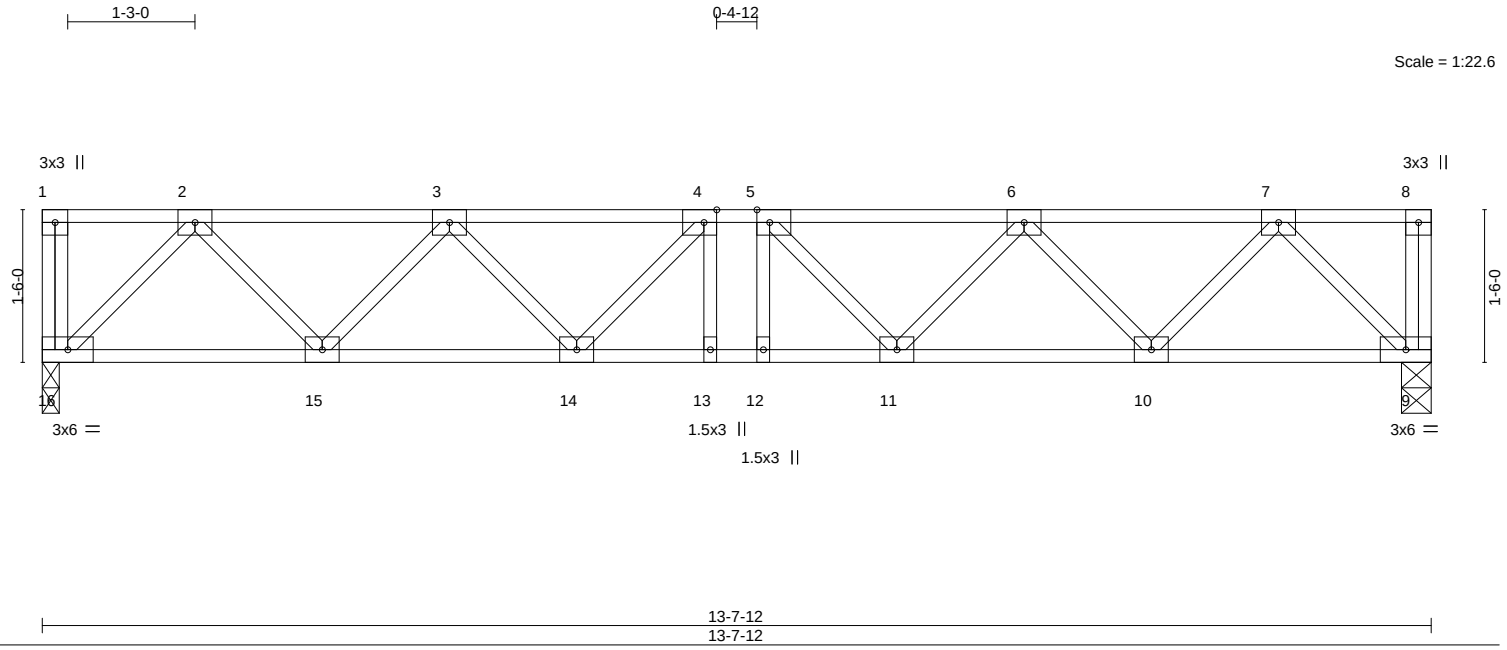

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=871(LC 1), 9=871(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1312/0, 3-4=-1973/0, 4-5=-2146/0, 5-6=-1973/0, 6-7=-1312/0
BOT CHORD 15-16=0/809, 14-15=0/1789, 13-14=0/2146, 12-13=0/2146, 11-12=0/2146, 10-11=0/1789, 9-10=0/809
WEBS 2-16=-1144/0, 2-15=0/748, 3-15=-709/0, 3-14=0/317, 4-14=-339/0, 7-9=-1144/0, 7-10=0/748, 6-10=-709/0, 6-11=0/317, 5-11=-339/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F78	Floor	12	1	I48734658
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:20 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-w94CM4PA0CtSFjmOtXv1C1ws5F19K9nbRODuF3yKtkH

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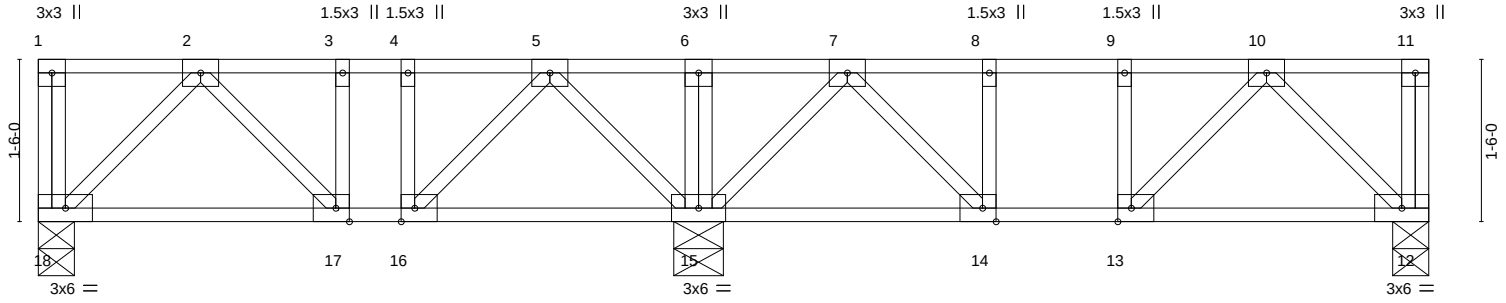

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=895(LC 10), 12=942(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-979/0, 3-4=-979/0, 4-5=-979/0, 5-6=-20/612, 6-7=-20/612, 7-8=-1057/0, 8-9=-1057/0, 9-10=-1057/0
BOT CHORD 17-18=0/725, 16-17=0/979, 15-16=-88/715, 14-15=-36/619, 13-14=0/1057, 12-13=0/769
WEBS 6-15=-432/0, 2-18=-1026/0, 2-17=-27/367, 5-15=-1164/0, 5-16=0/639, 4-16=-398/0, 7-15=-1214/0, 7-14=0/715, 10-12=-1088/0, 10-13=0/416, 9-13=-302/0, 8-14=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F79	Floor	6	1	I48734659
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:21 2021 Page 1
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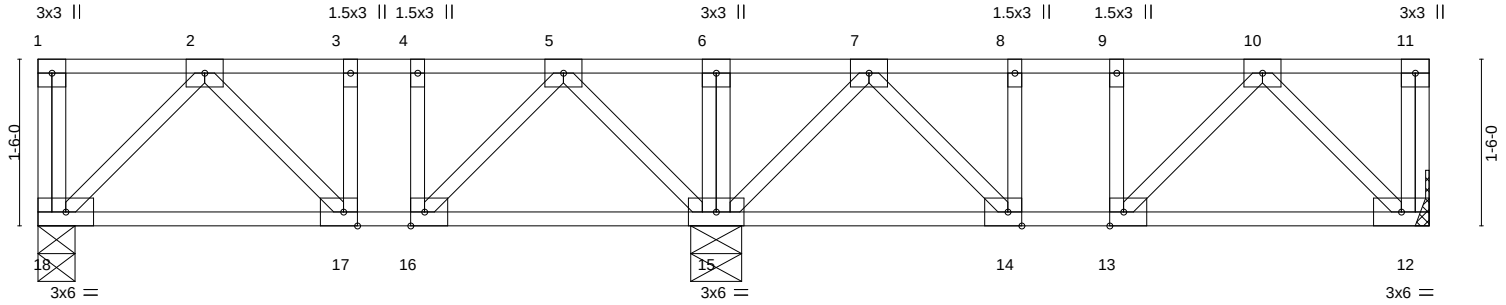

6-1-4 12-6-4
6-1-4 6-5-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=Mechanical, 15=0-5-8
Max Grav 18=864(LC 10), 12=885(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-911/0, 3-4=-911/0, 4-5=-911/0, 5-6=0/574, 6-7=0/574, 7-8=-942/0, 8-9=-942/0, 9-10=-942/0
BOT CHORD 17-18=0/694, 16-17=0/911, 15-16=-106/611, 14-15=-78/558, 13-14=0/942, 12-13=0/714
WEBS 6-15=-429/0, 2-18=-982/0, 2-17=-36/315, 5-15=-1153/0, 5-16=0/623, 4-16=-390/0, 10-12=-1010/0, 10-13=-18/330, 7-15=-1174/0, 7-14=0/655, 8-14=-419/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F80	Floor	3	1	I48734660
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-owKjCSSh3RNukK396NzzNt5YIsOAGyqAM0B5OryKtkD

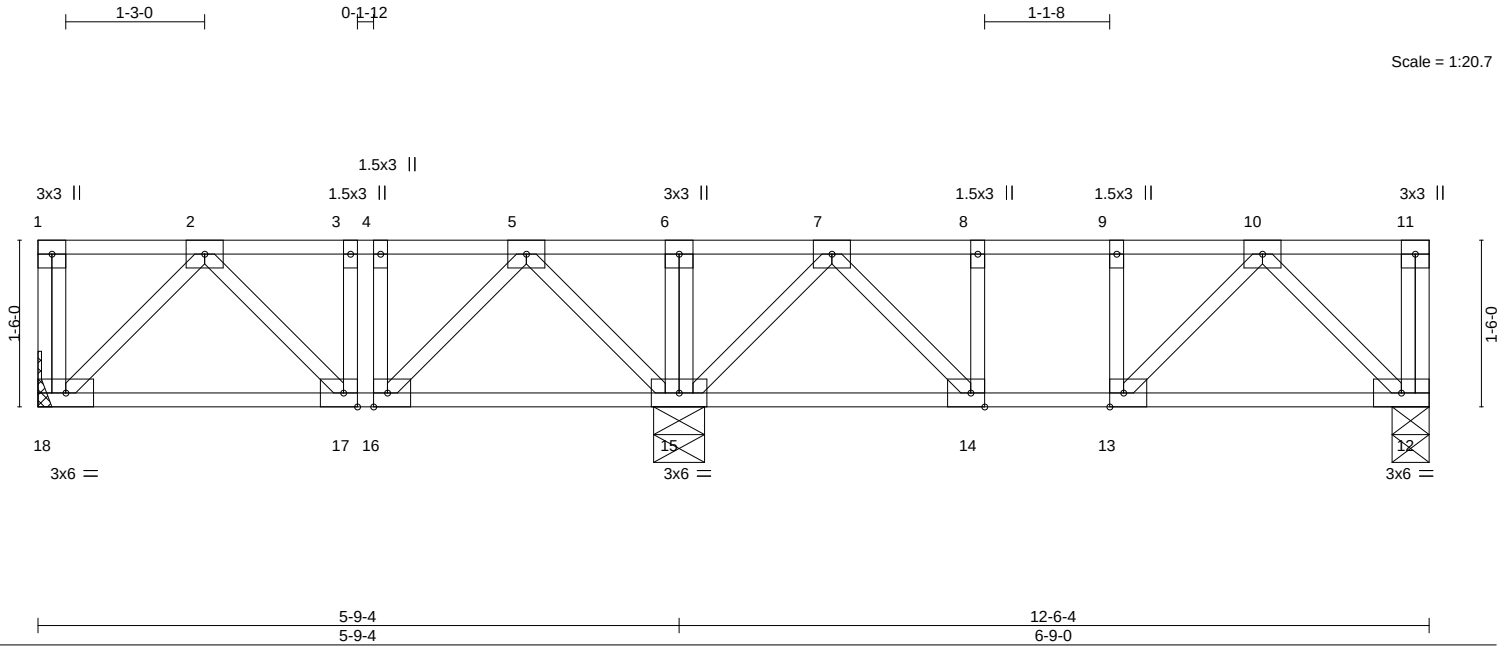

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 18=853(LC 10), 12=936(LC 4), 15=2028(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-899/0, 3-4=-899/0, 4-5=-899/0, 5-6=-50/647, 6-7=-50/647, 7-8=-1040/0, 8-9=-1040/0, 9-10=-1040/0
BOT CHORD 17-18=0/682, 16-17=0/899, 15-16=-108/687, 14-15=-29/596, 13-14=0/1040, 12-13=0/763
WEBS 6-15=-430/0, 2-18=-965/0, 2-17=-65/314, 5-15=-1118/0, 5-16=0/574, 4-16=-354/0, 10-12=-1078/0, 10-13=0/402, 9-13=-294/0, 7-15=-1207/0, 7-14=0/708, 8-14=-459/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F81	Floor	2	1	I48734661
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:26 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kJSTd8Txb2dbzeDYDo0RSIAuhg4bksKTpKgCTjyKtkB

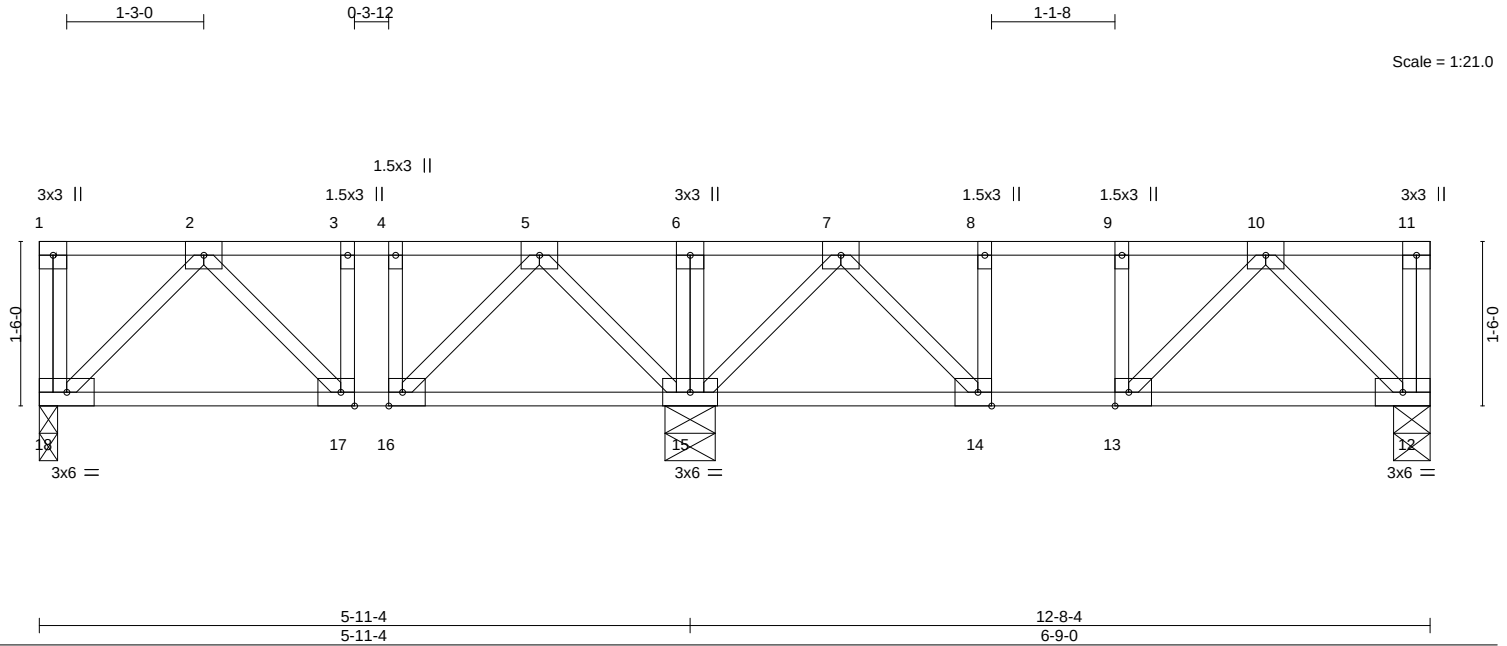

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 12=0-4-0, 15=0-5-8
Max Grav 18=874(LC 10), 12=938(LC 4), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-938/0, 3-4=-938/0, 4-5=-938/0, 5-6=-35/634, 6-7=-35/634, 7-8=-1045/0, 8-9=-1045/0, 9-10=-1045/0
BOT CHORD 17-18=0/704, 16-17=0/938, 15-16=-99/701, 14-15=-34/602, 13-14=0/1045, 12-13=0/764
WEBS 6-15=-431/0, 2-18=-995/0, 2-17=-34/339, 5-15=-1142/0, 5-16=0/607, 4-16=-376/0, 7-15=-1206/0, 7-14=0/707, 8-14=-458/0, 10-12=-1081/0, 10-13=0/406, 9-13=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F82	Floor	1	1	I48734662
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:27 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DV?rqTUZMMlSbnoknVXg?Wj4_4QGTJld2_Pm?AyKtkA

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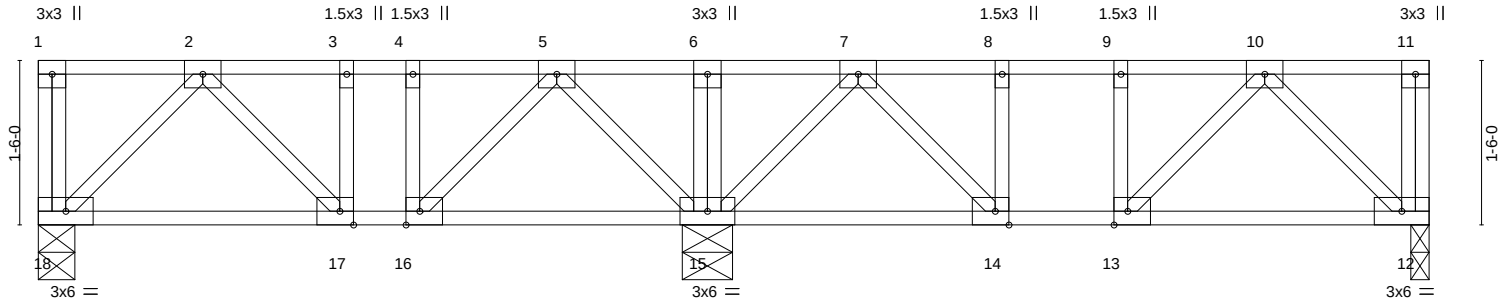

6-1-4 12-8-4
6-1-4 6-7-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-2-0, 15=0-5-8
Max Grav 18=880(LC 10), 12=914(LC 7), 15=2058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-946/0, 3-4=-946/0, 4-5=-946/0, 5-6=0/595, 6-7=0/595, 7-8=-999/0, 8-9=-999/0, 9-10=-999/0
BOT CHORD 17-18=0/710, 16-17=0/946, 15-16=-97/665, 14-15=-57/588, 13-14=0/999, 12-13=0/742
WEBS 6-15=-431/0, 2-18=-1005/0, 2-17=-32/342, 5-15=-1159/0, 5-16=0/632, 4-16=-394/0, 10-12=-1049/0, 10-13=-4/372, 9-13=-271/5, 7-15=-1194/0, 7-14=0/684, 8-14=-441/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F83	Floor	8	1	I48734663
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:27 2021 Page 1
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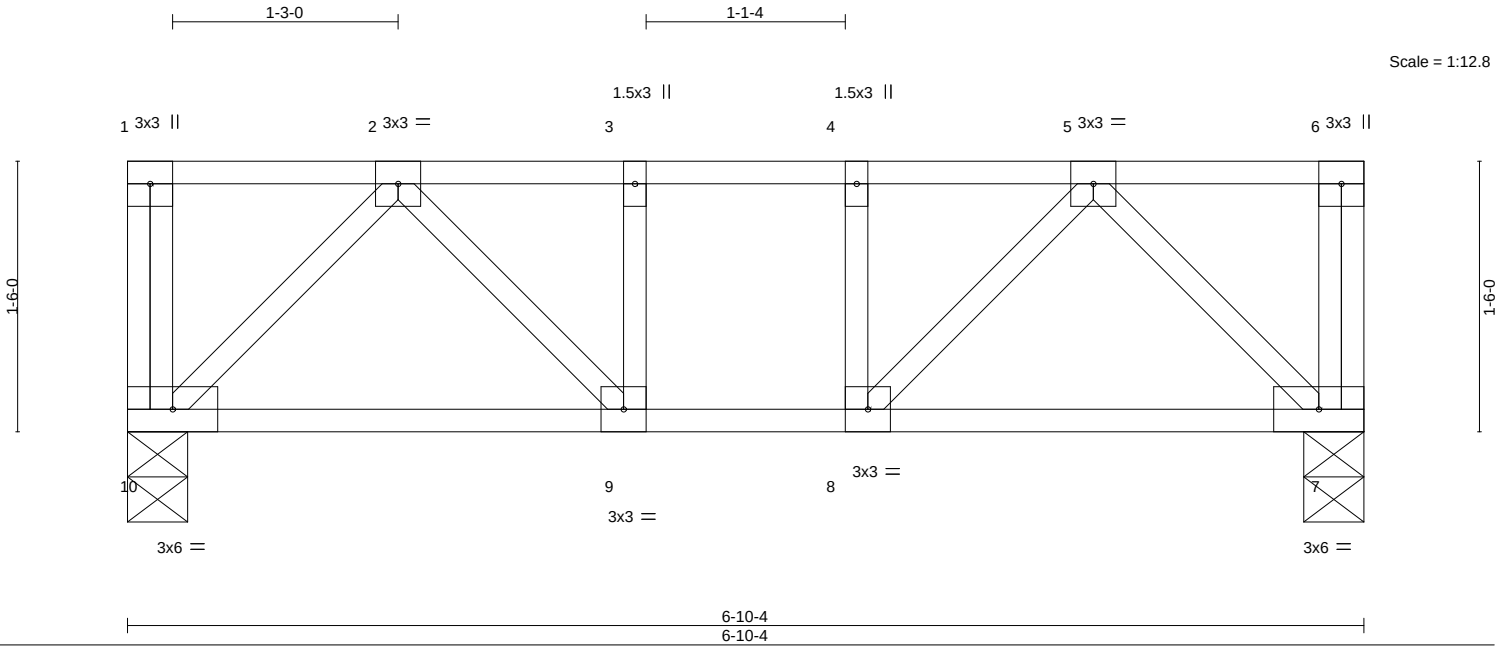

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F84	Floor	3	1	I48734664
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:28 2021 Page 1
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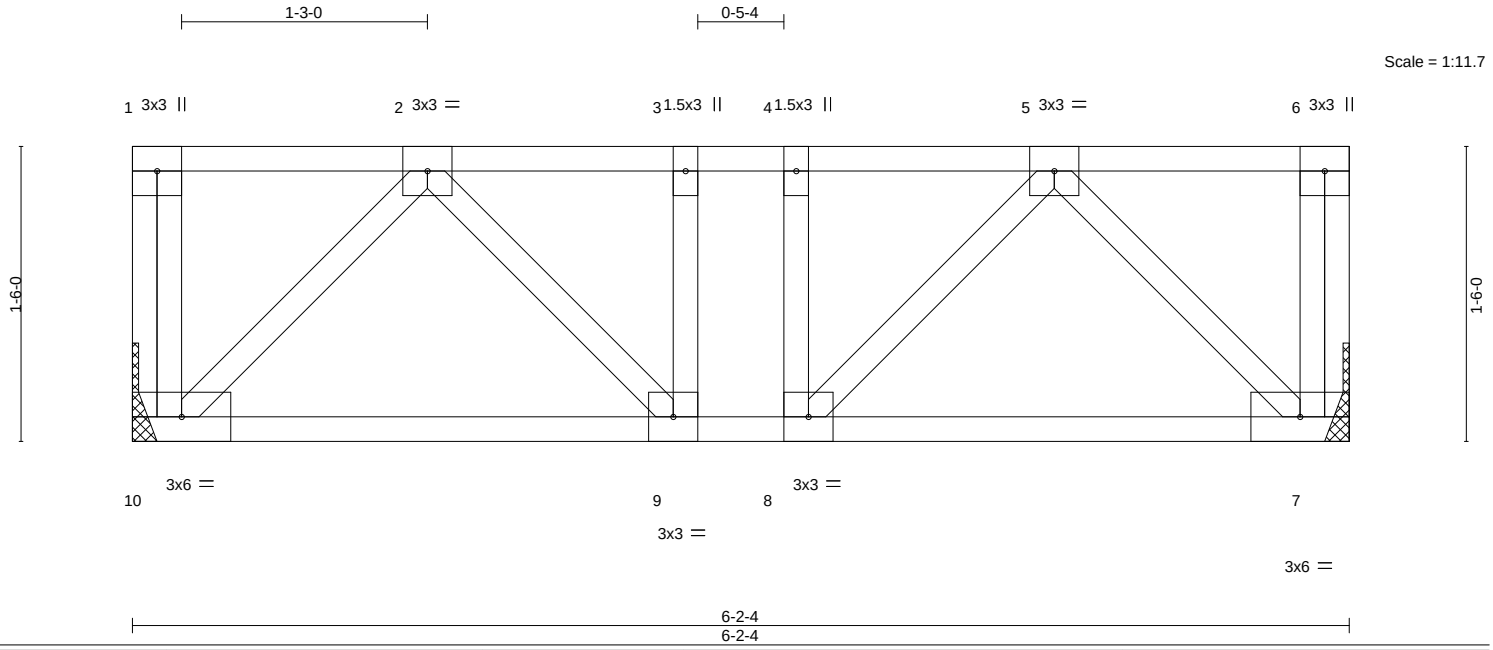

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=742(LC 1), 7=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-808/0, 3-4=-808/0, 4-5=-808/0
BOT CHORD	9-10=0/600, 8-9=0/808, 7-8=0/600
WEBS	2-10=-848/0, 2-9=0/360, 5-7=-848/0, 5-8=0/360

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F85	Floor	1	1	I48734665
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:29 2021 Page 1
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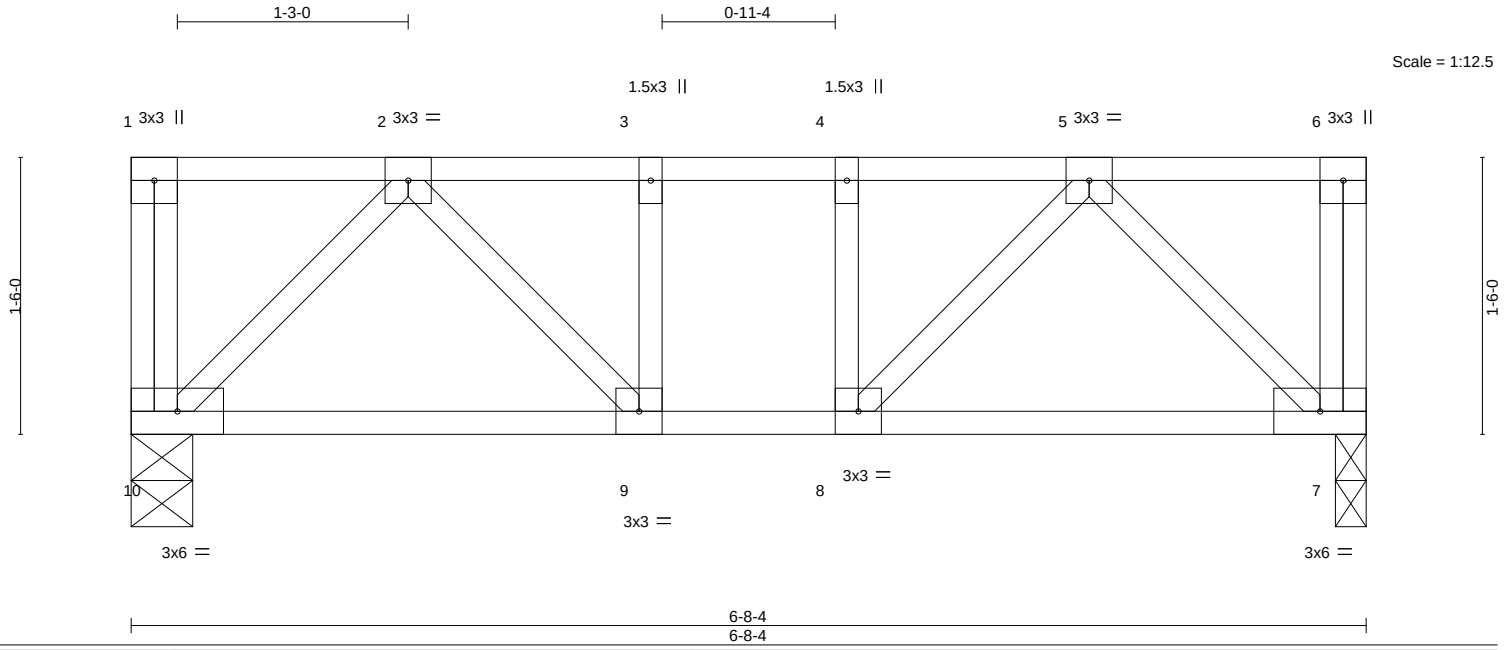

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-2-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/468, 3-9=-266/0, 5-7=-934/0, 5-8=0/468, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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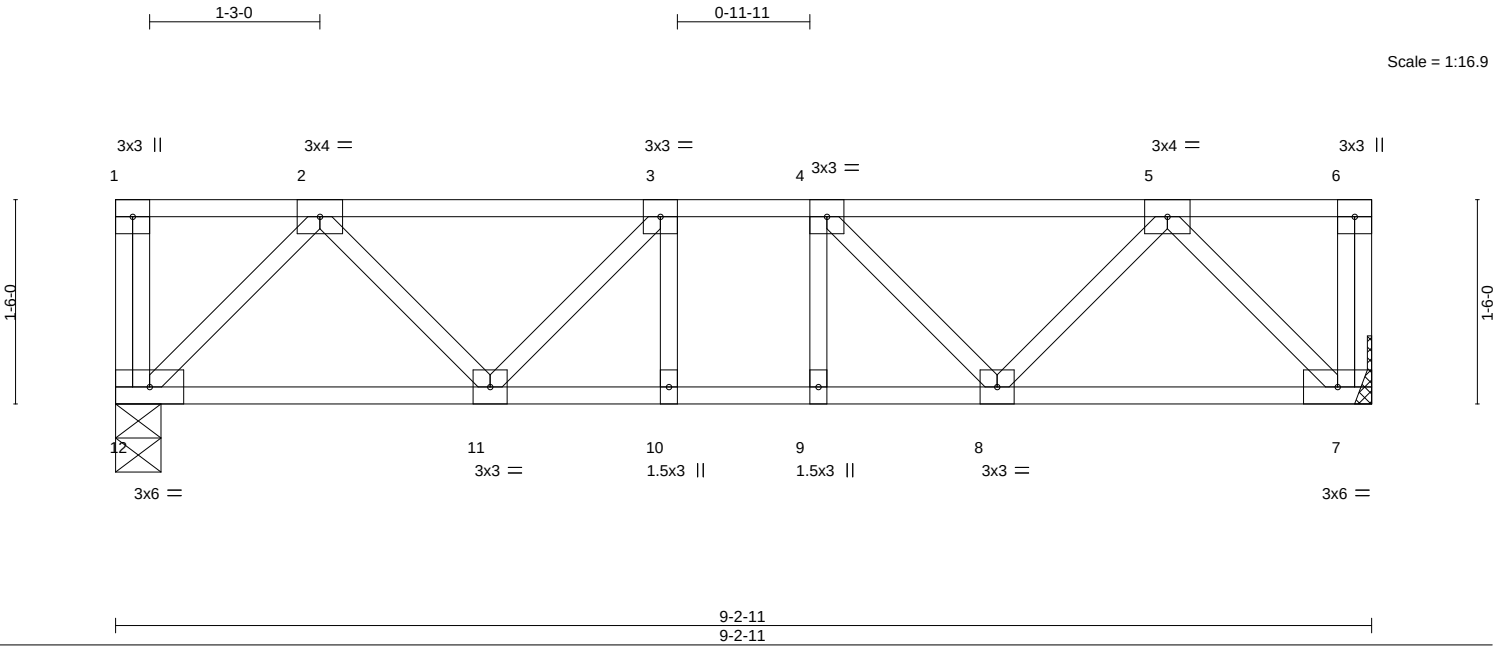
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F86	Floor	3	1	I48734666
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:29 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9u7cF9Vquz?Aq5y7vwZ84xoLet_QxDuvVIus42yKtk8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=Mechanical
Max Grav 12=1122(LC 1), 7=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1448/0, 3-4=-1864/0, 4-5=-1448/0
BOT CHORD	11-12=0/1027, 10-11=0/1864, 9-10=0/1864, 8-9=0/1864, 7-8=0/1027
WEBS	2-12=-1453/0, 2-11=0/625, 3-11=-639/0, 5-7=-1453/0, 5-8=0/625, 4-8=-639/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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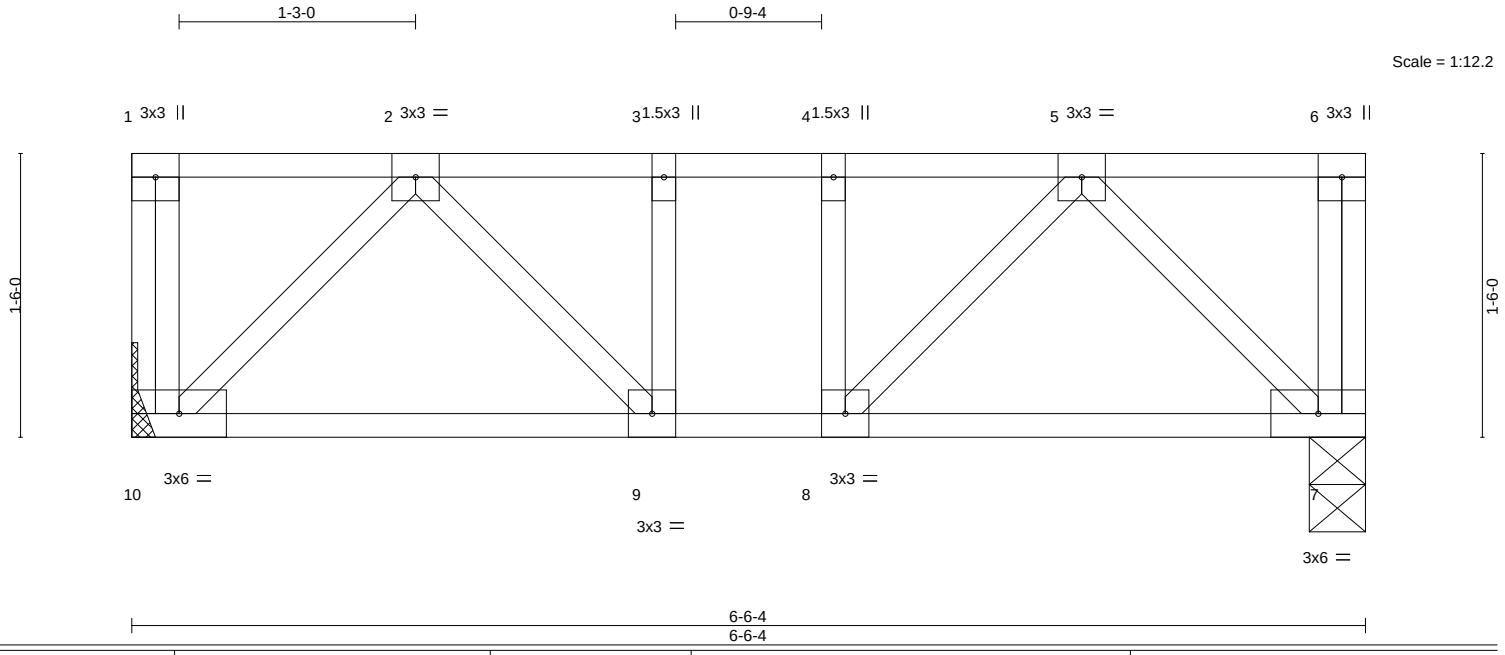
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F87	Floor	3	1	I48734667
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-d4h_TVWSfH71SFXJSe4Nc8KddHTbgiB3kyeQcUyKtk7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-3-9
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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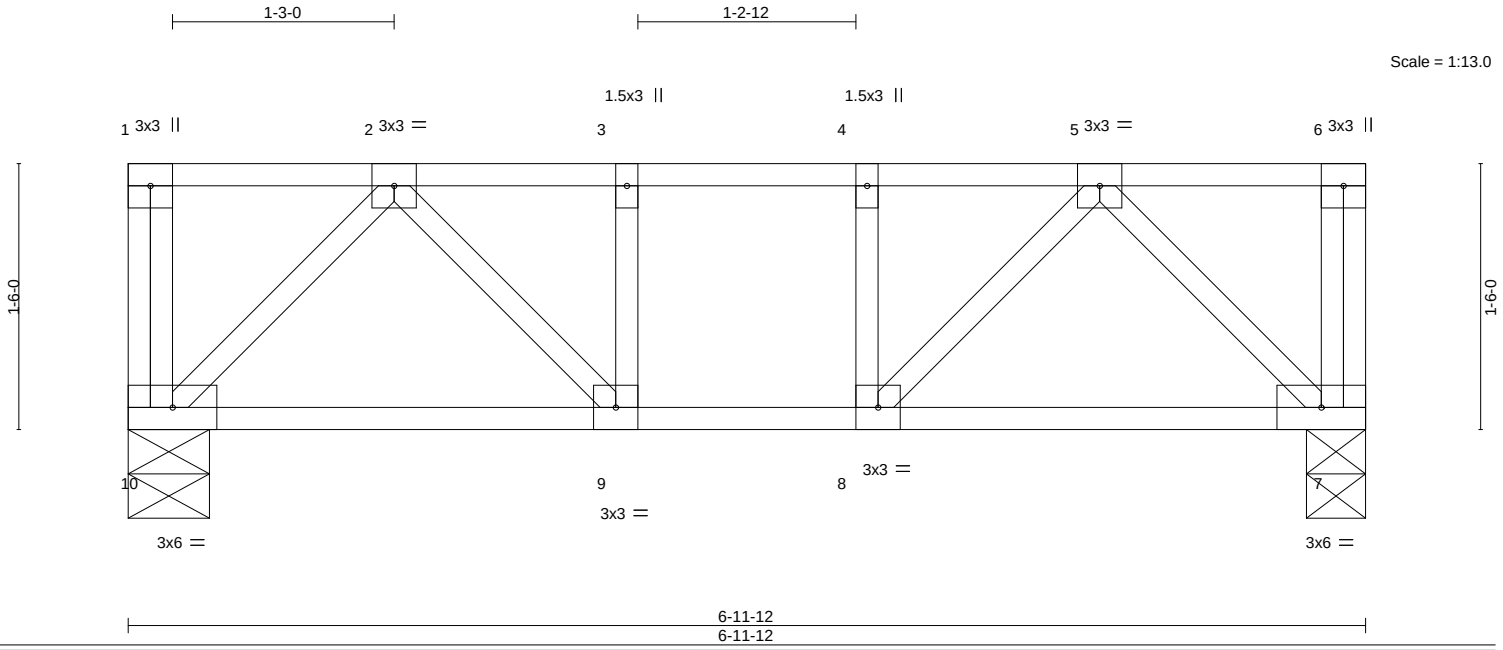
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F88	Floor	2	1	I48734668
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:31 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5GFMgrX4QbFu4P6W0Lbc9MtmJhnVP9qCzcNz8xyKtk6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 7=0-4-0
Max Grav 10=841(LC 1), 7=841(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1011/0, 3-4=-1011/0, 4-5=-1011/0
BOT CHORD 9-10=0/696, 8-9=0/1011, 7-8=0/696
WEBS 2-10=-984/0, 2-9=0/537, 3-9=-314/0, 5-7=-984/0, 5-8=0/537, 4-8=-314/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F89	Floor	2	1	I48734669
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:32 2021 Page 1
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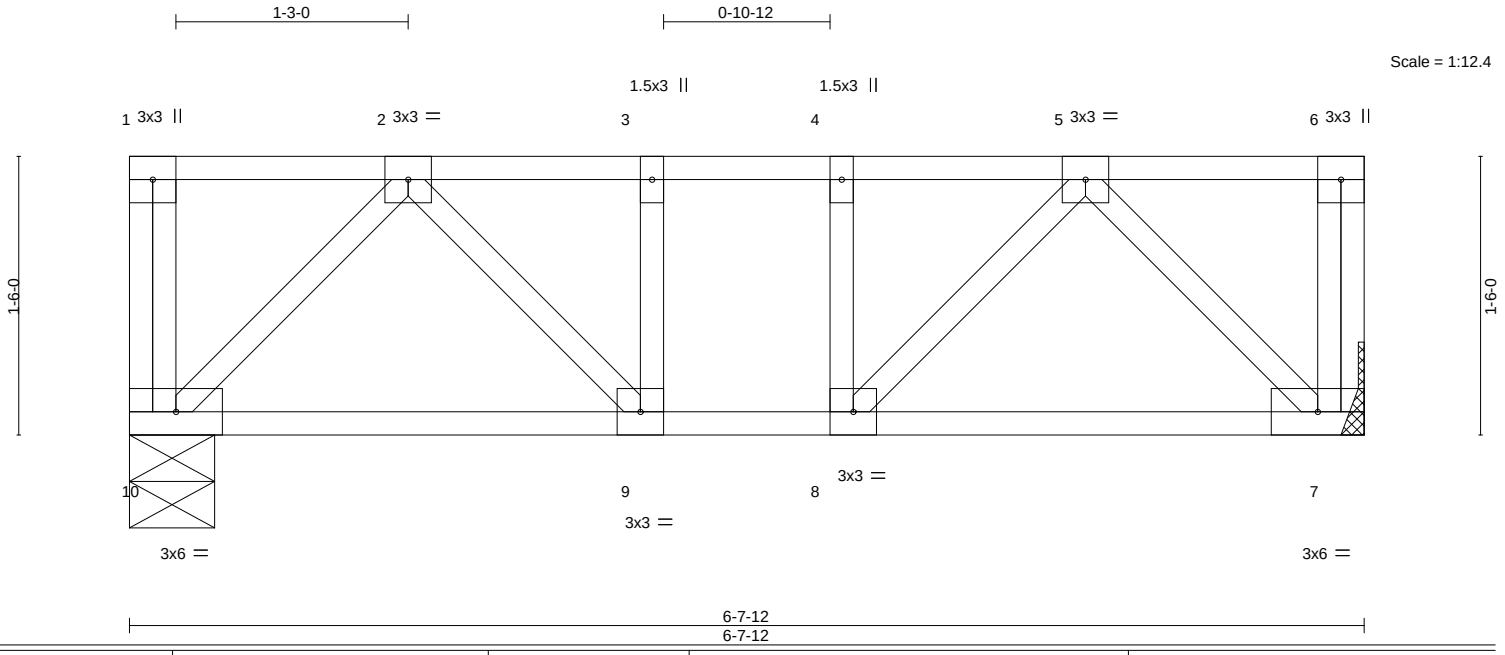

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 7=Mechanical
Max Grav 10=799(LC 1), 7=799(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-923/0, 3-4=-923/0, 4-5=-923/0
BOT CHORD	9-10=0/656, 8-9=0/923, 7-8=0/656
WEBS	2-10=-927/0, 2-9=0/459, 3-9=-261/0, 5-7=-927/0, 5-8=0/459, 4-8=-261/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F90	Floor	5	1	I48734670
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:35 2021 Page 1
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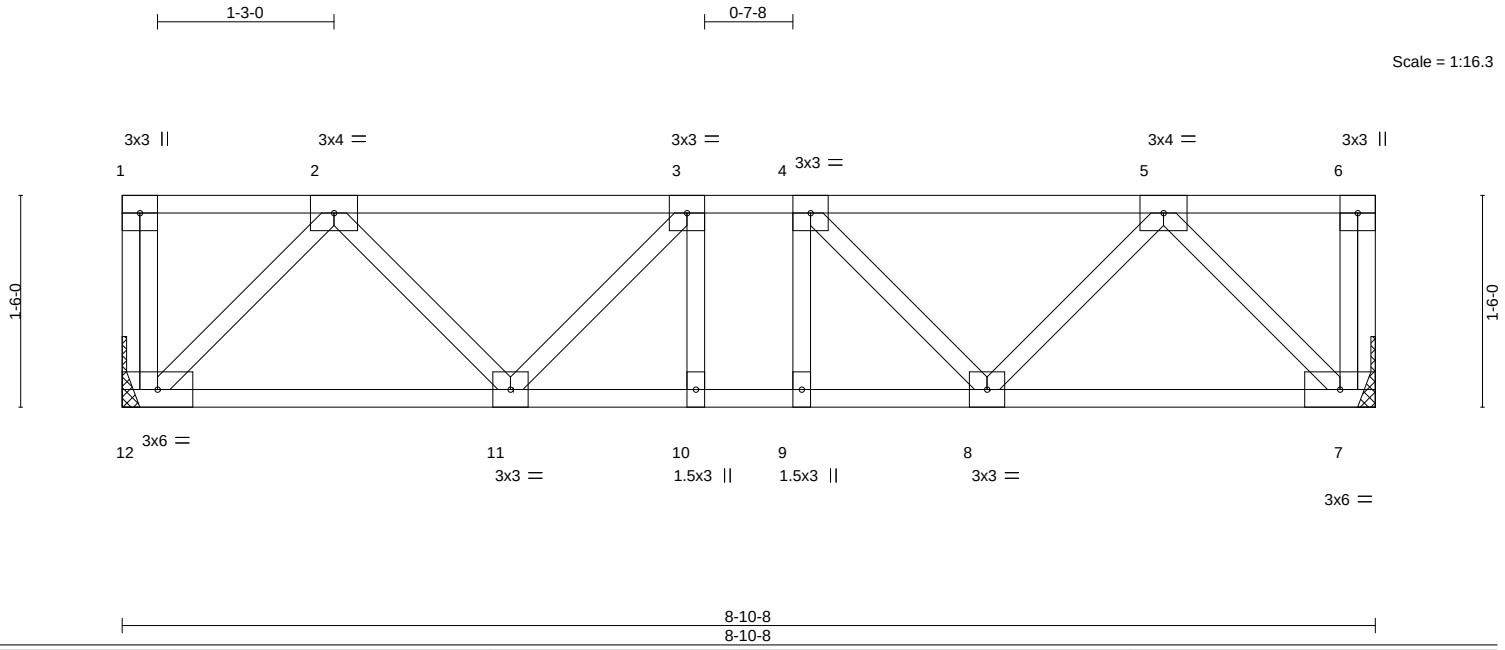

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.04	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1078(LC 1), 7=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1367/0, 3-4=-1744/0, 4-5=-1367/0
BOT CHORD 11-12=0/982, 10-11=0/1744, 9-10=0/1744, 8-9=0/1744, 7-8=0/982
WEBS 2-12=-1389/0, 2-11=0/571, 3-11=-562/0, 3-10=-252/260, 5-7=-1389/0, 5-8=0/571, 4-8=-562/0, 4-9=-252/260

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F91	Floor	2	1	I48734671
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:36 2021 Page 1
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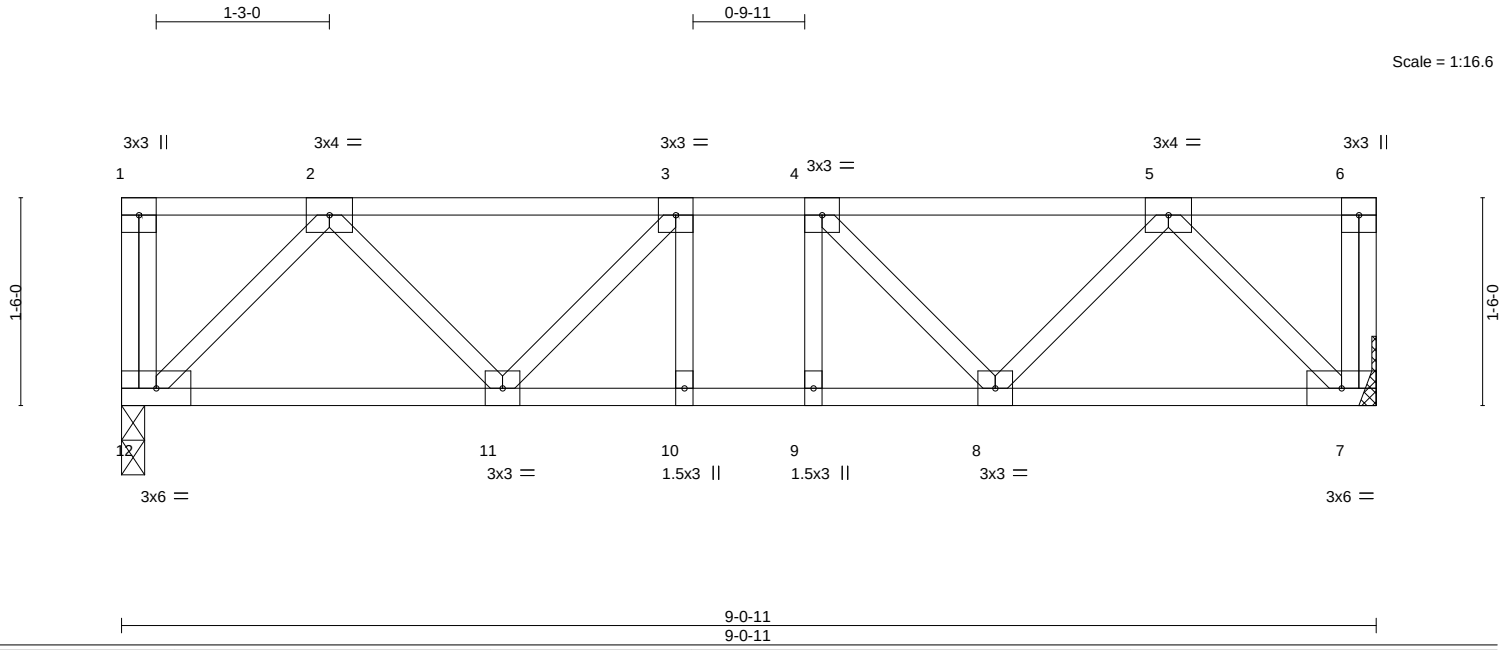

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=Mechanical
Max Grav 12=1101(LC 1), 7=1101(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1409/0, 3-4=-1806/0, 4-5=-1409/0
BOT CHORD	11-12=0/1006, 10-11=0/1806, 9-10=0/1806, 8-9=0/1806, 7-8=0/1006
WEBS	2-12=-1423/0, 2-11=0/598, 3-11=-602/0, 5-7=-1423/0, 5-8=0/598, 4-8=-602/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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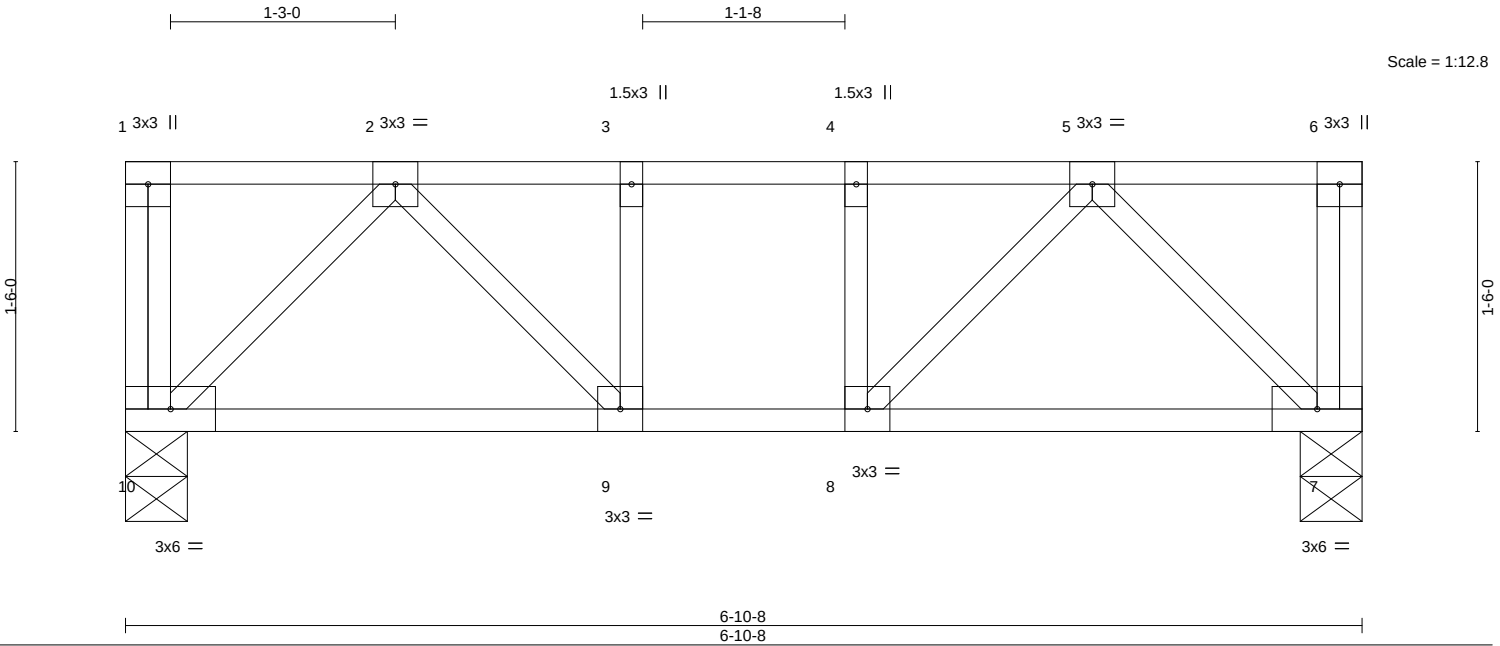
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F92	Floor	1	1	I48734672
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:36 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SE2FjYbDE7uBAA_TpuBnsPadeiV_4QGx6u5kp8yKtk1



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-4-2
Max Grav 10=828(LC 1), 7=828(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-983/0, 3-4=-983/0, 4-5=-983/0
BOT CHORD	9-10=0/683, 8-9=0/983, 7-8=0/683
WEBS	2-10=-966/0, 2-9=0/512, 3-9=-296/0, 5-7=-966/0, 5-8=0/512, 4-8=-296/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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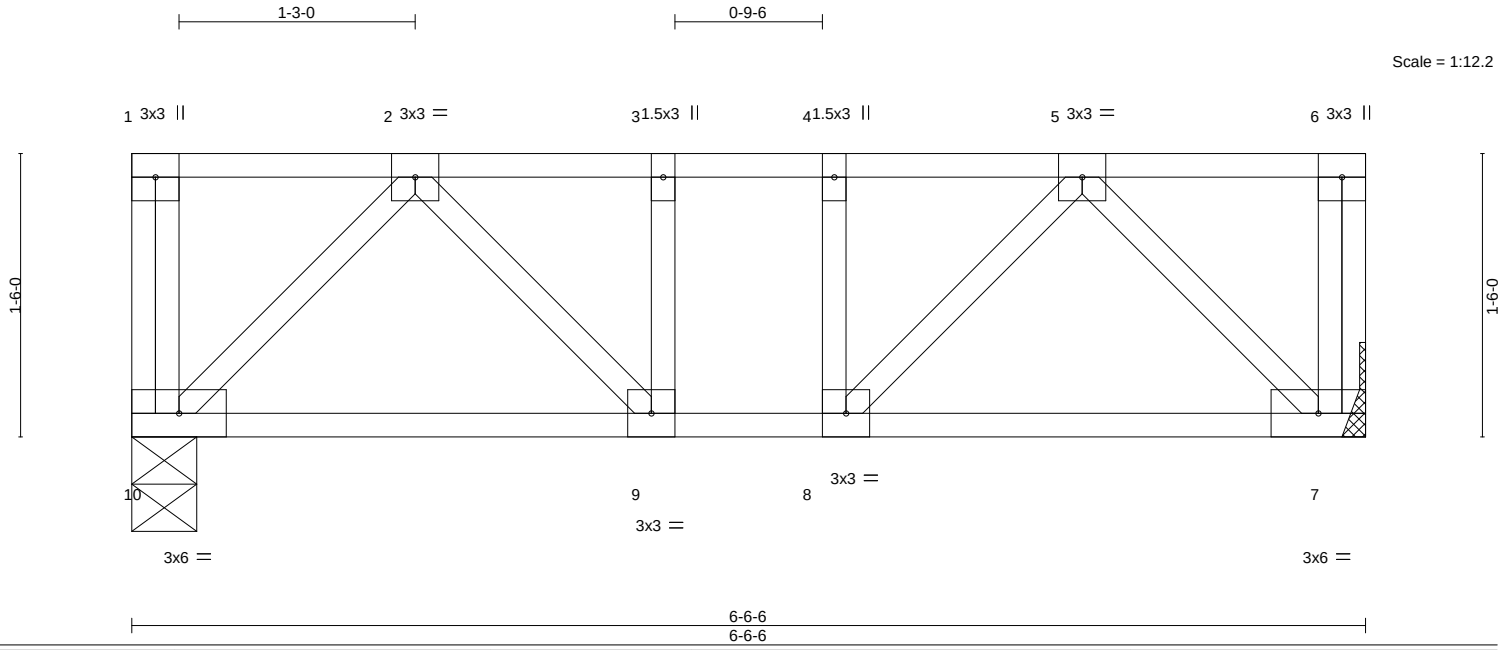
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F93	Floor	3	1	I48734673
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wQcdxucr?R01oKZfNci0Od7ps6sCptw5LYqHMayKtk0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=Mechanical
Max Grav 10=785(LC 1), 7=785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-893/0, 3-4=-893/0, 4-5=-893/0
BOT CHORD 9-10=0/642, 8-9=0/893, 7-8=0/642
WEBS 2-10=-907/0, 2-9=0/433, 5-7=-907/0, 5-8=0/433

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F94	Floor	1	1	I48734674
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:38 2021 Page 1
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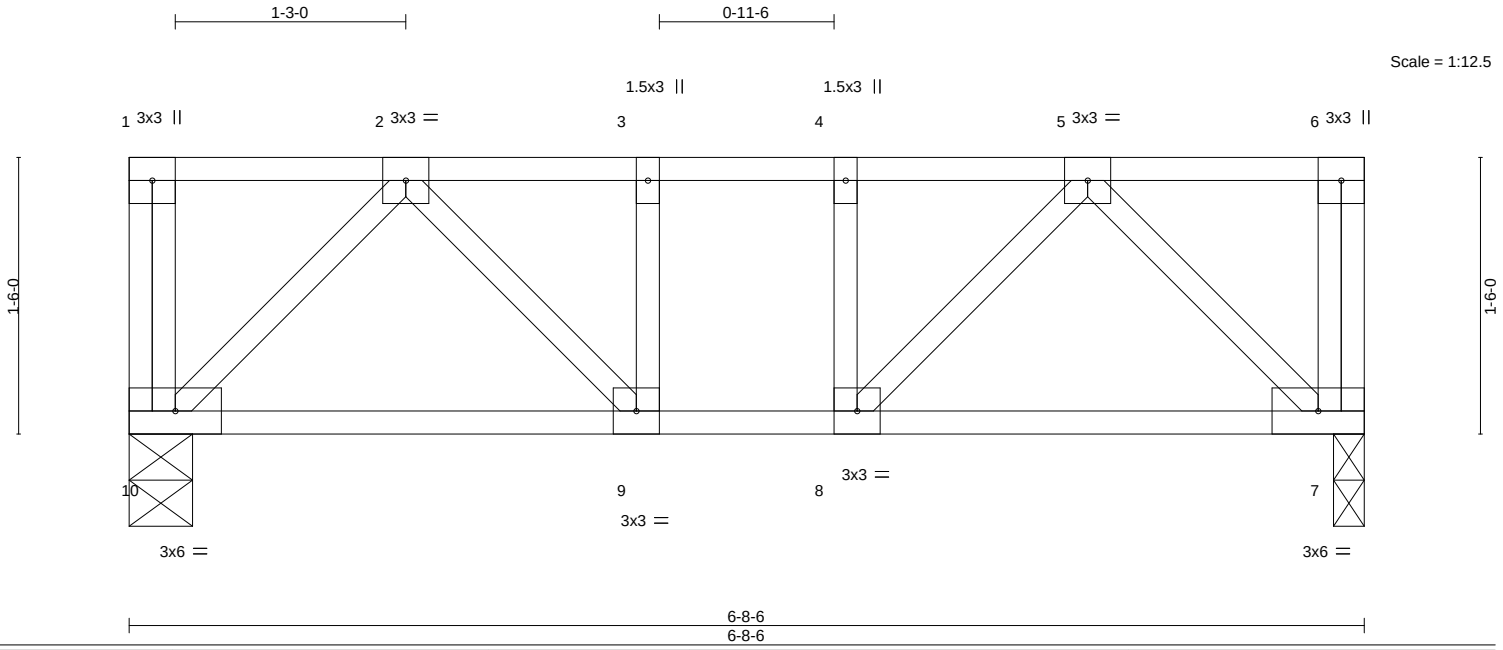

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-2-0
Max Grav 10=806(LC 1), 7=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-936/0, 3-4=-936/0, 4-5=-936/0
BOT CHORD	9-10=0/662, 8-9=0/936, 7-8=0/662
WEBS	2-10=-936/0, 2-9=0/471, 3-9=-268/0, 5-7=-936/0, 5-8=0/471, 4-8=-268/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F95	Floor	3	1	I48734675
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:39 2021 Page 1
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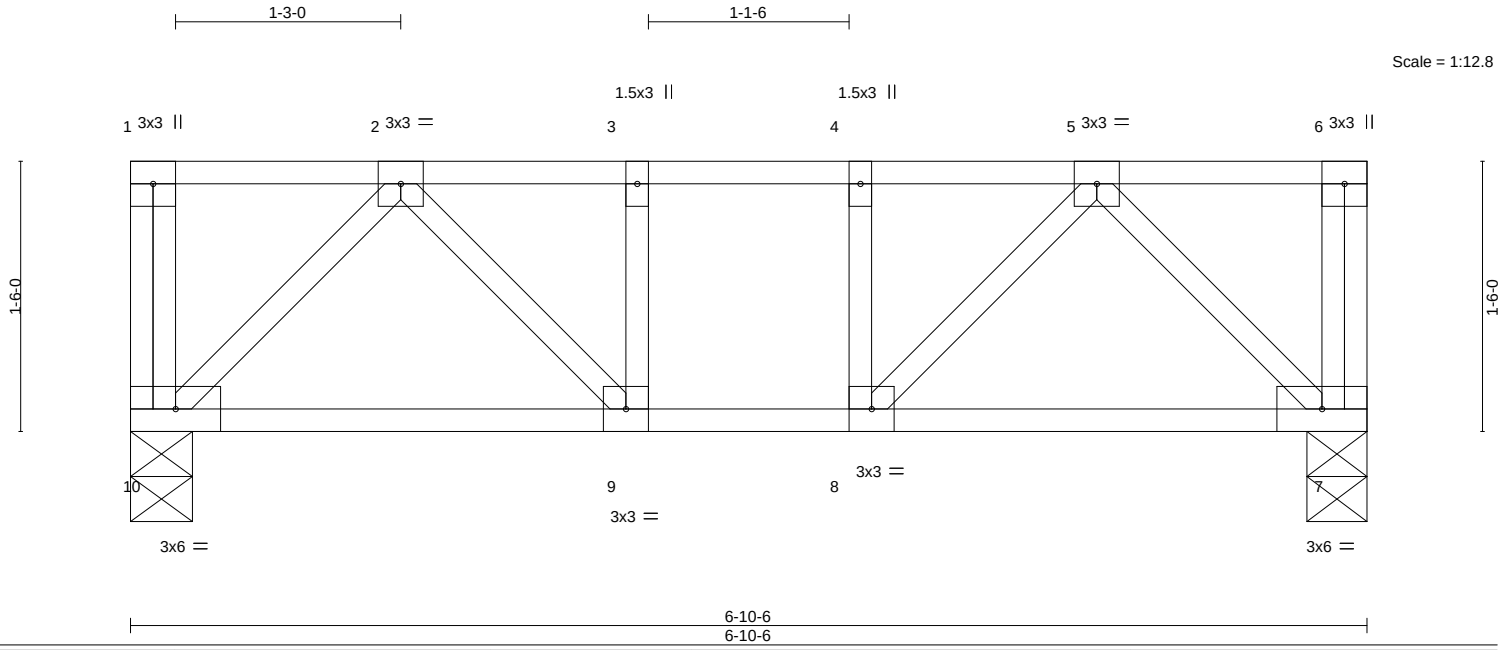

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-4-0
Max Grav 10=827(LC 1), 7=827(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-980/0, 3-4=-980/0, 4-5=-980/0
BOT CHORD	9-10=0/682, 8-9=0/980, 7-8=0/682
WEBS	2-10=-964/0, 2-9=0/509, 3-9=-294/0, 5-7=-964/0, 5-8=0/509, 4-8=-294/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F96	Floor	4	1	I48734676
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:39 2021 Page 1
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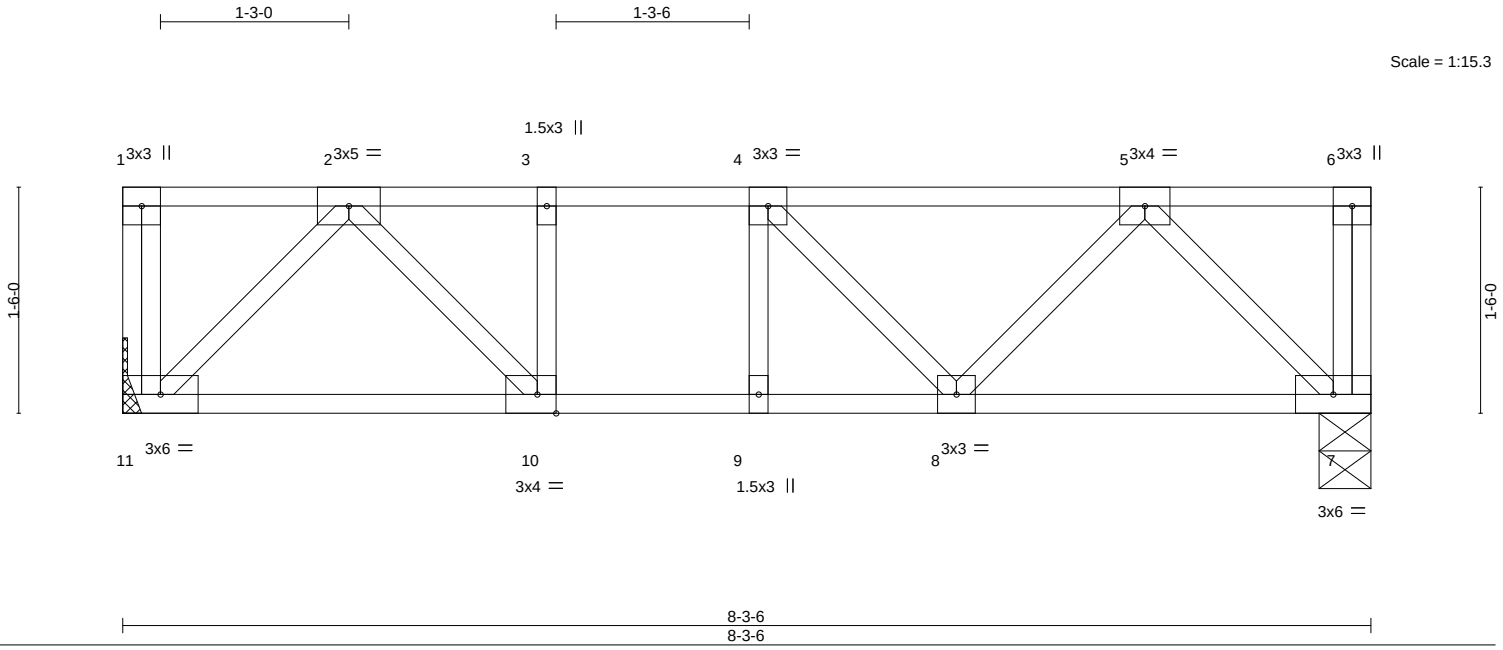

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.09	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.11	8-9	>918	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=0-4-2
Max Grav 11=1004(LC 1), 7=1004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1424/0, 3-4=-1424/0, 4-5=-1223/0
BOT CHORD 10-11=0/871, 9-10=0/1424, 8-9=0/1424, 7-8=0/927
WEBS 2-11=-1231/0, 2-10=0/841, 5-7=-1311/0, 5-8=0/439, 4-8=-405/0, 4-9=-279/41, 3-10=-417/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F97	Floor	2	1	I48734677
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:40 2021 Page 1
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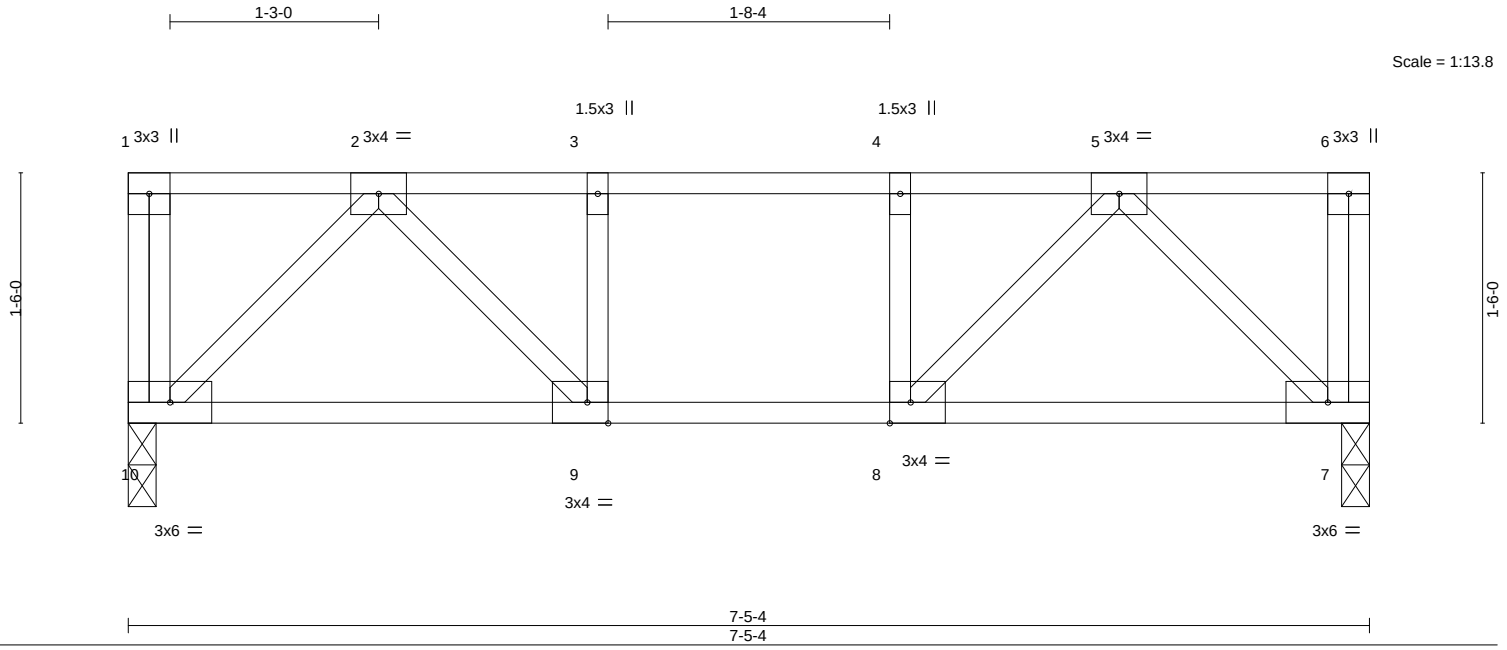

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-2-0
Max Grav 10=898(LC 1), 7=898(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1138/0, 3-4=-1138/0, 4-5=-1138/0
BOT CHORD 9-10=0/749, 8-9=0/1138, 7-8=0/749
WEBS 2-10=-1059/0, 2-9=0/653, 5-7=-1059/0, 5-8=0/653, 4-8=-395/0, 3-9=-395/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F98	FLOOR	14	1	I48734678
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:41 2021 Page 1
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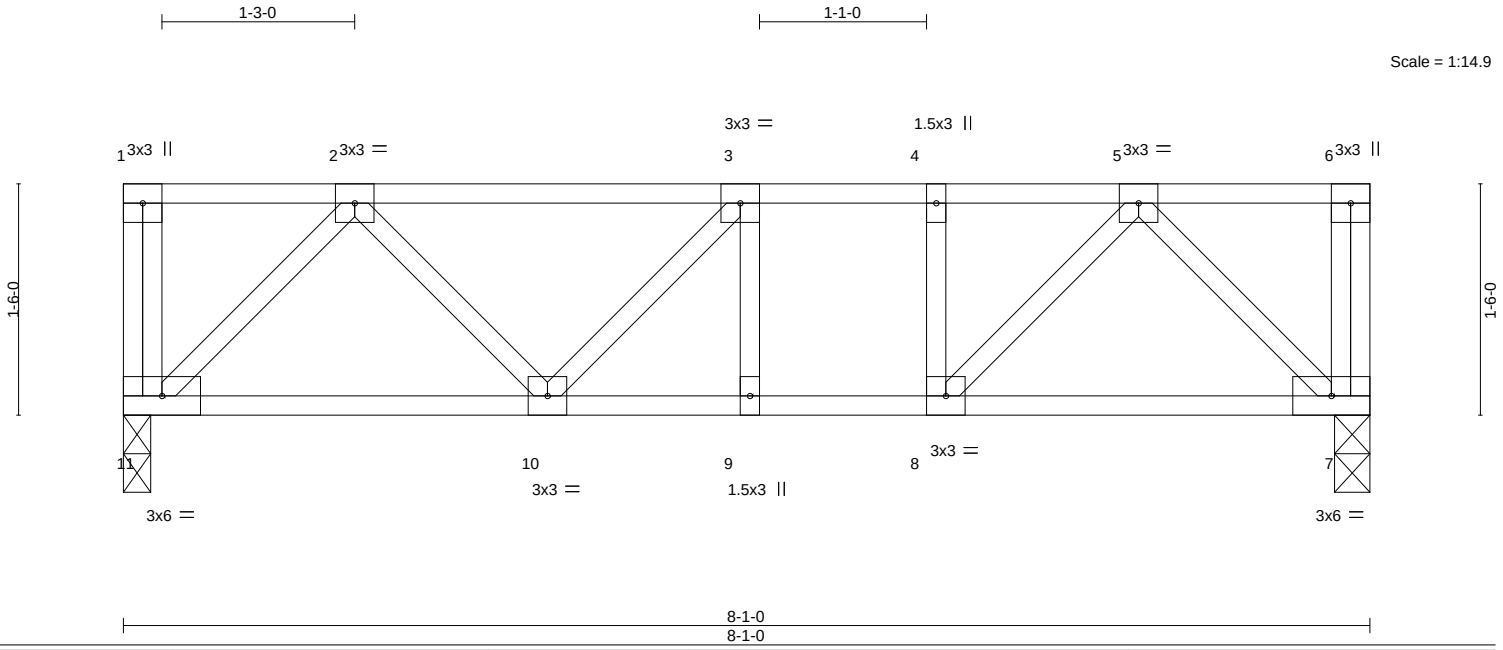

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-2, 7=0-2-12
Max Grav 11=509(LC 1), 7=509(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-615/0, 3-4=-709/0, 4-5=-709/0
BOT CHORD	10-11=0/465, 9-10=0/709, 8-9=0/709, 7-8=0/436
WEBS	2-11=-658/0, 5-7=-616/0, 5-8=0/411

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F99	Floor	1	1	I48734679
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GOPW_cgzqzeKu5Rd99IB5gqaj7RwU2cqUqY20oyKtjx

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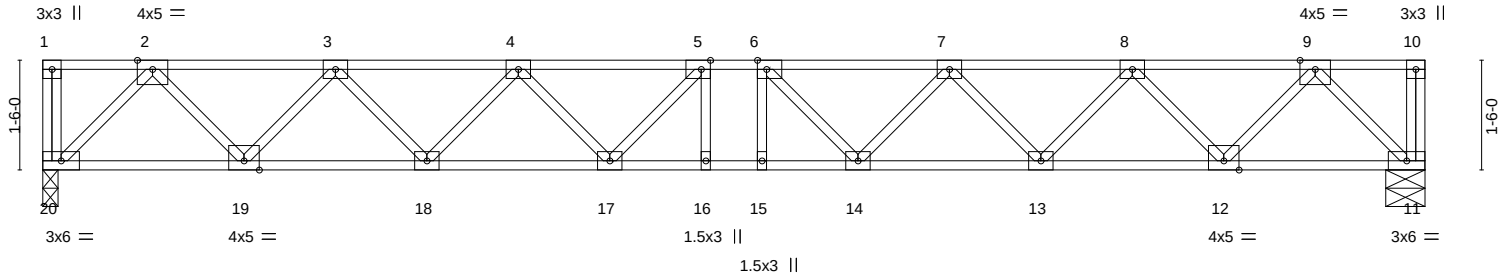

18-10-11
18-10-11

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.22	16	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	16	>622	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 104 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-8, 11=0-6-7
Max Grav 20=1212(LC 1), 11=1212(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1959/0, 3-4=-3249/0, 4-5=-3933/0, 5-6=-4122/0, 6-7=-3933/0, 7-8=-3249/0, 8-9=-1959/0
BOT CHORD 19-20=0/1151, 18-19=0/2742, 17-18=0/3734, 16-17=0/4122, 15-16=0/4122, 14-15=0/4122, 13-14=0/3734, 12-13=0/2742, 11-12=0/1151
WEBS 2-20=-1628/0, 2-19=0/1202, 3-19=-1164/0, 3-18=0/753, 4-18=-721/0, 4-17=0/409, 5-17=-463/48, 9-11=-1628/0, 9-12=0/1202, 8-12=-1164/0, 8-13=0/753, 7-13=-721/0, 7-14=0/409, 6-14=-463/48

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F100	Floor	1	1	I48734680
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:55 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-voS3X0Ns159WZfm3OBt5G6vMG_vowgW4ug7umVyKtlc

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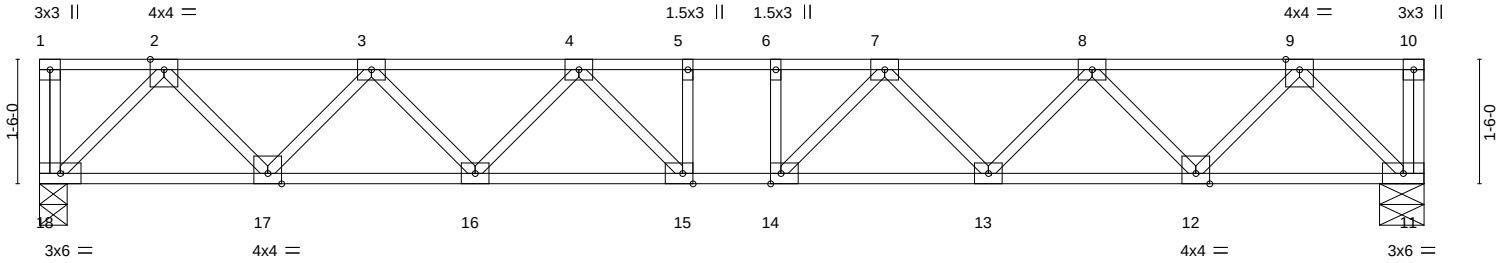

16-8-4
16-8-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.15	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.24	15	>837	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 92 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 11=0-6-7
Max Grav 18=1068(LC 1), 11=1068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1688/0, 3-4=-2710/0, 4-5=-3177/0, 5-6=-3177/0, 6-7=-3177/0, 7-8=-2710/0, 8-9=-1688/0
BOT CHORD 17-18=0/1007, 16-17=0/2344, 15-16=0/3054, 14-15=0/3177, 13-14=0/3054, 12-13=0/2344, 11-12=0/1007
WEBS 2-18=-1423/0, 2-17=0/1013, 3-17=-975/0, 3-16=0/545, 4-16=-511/0, 4-15=-97/415, 9-11=-1423/0, 9-12=0/1013, 8-12=-975/0, 8-13=0/545, 7-13=-511/0, 7-14=-97/415

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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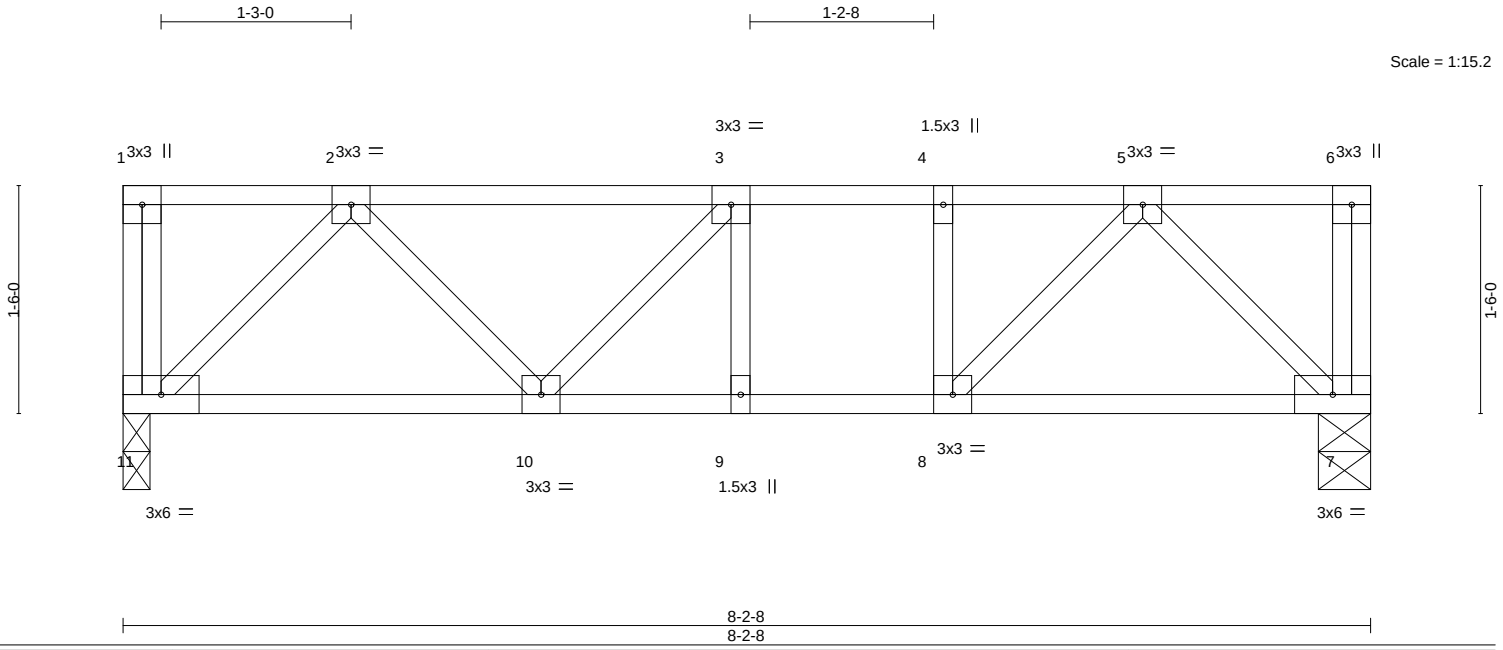
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F101	FLOOR	2	1	I48734681
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:56 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-N?0SkMNUoOHNAoLFyuOKoKRXPOK8fB6D7KtRIxyKtlb



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-2, 7=0-4-2
Max Grav 11=517(LC 1), 7=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-630/0, 3-4=-729/0, 4-5=-729/0
BOT CHORD	10-11=0/474, 9-10=0/729, 8-9=0/729, 7-8=0/444
WEBS	2-11=-670/0, 5-7=-628/0, 5-8=0/429

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F102	Floor	1	1	I48734682
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:57 2021 Page 1
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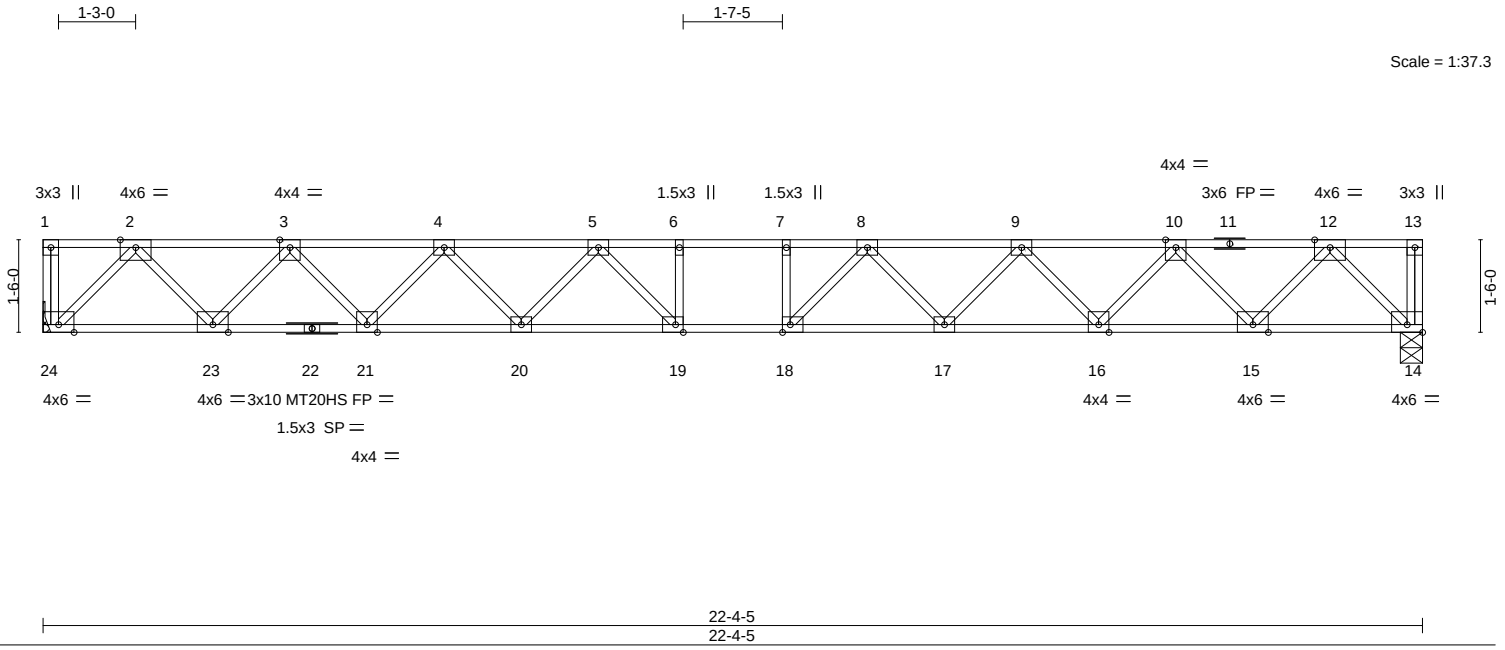

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.39	18-19	>675	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.64	18-19	>416	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=Mechanical, 14=0-4-5
Max Grav 24=1437(LC 1), 14=1437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2389/0, 3-4=-4085/0, 4-5=-5182/0, 5-6=-5741/0, 6-7=-5741/0, 7-8=-5741/0, 8-9=-5182/0, 9-10=-4085/0, 10-12=-2388/0
BOT CHORD 23-24=0/1376, 21-23=0/3375, 20-21=0/4774, 19-20=0/5567, 18-19=0/5741, 17-18=0/5567, 16-17=0/4773, 15-16=0/3375, 14-15=0/1375
WEBS 2-24=-1946/0, 2-23=0/1506, 3-23=-1466/0, 3-21=0/1054, 4-21=-1024/0, 4-20=0/607, 5-20=-597/0, 5-19=-163/630, 6-19=-304/6, 12-14=-1945/0, 12-15=0/1506, 10-15=-1468/0, 10-16=0/1055, 9-16=-1024/0, 9-17=0/608, 8-17=-597/0, 8-18=-163/630, 7-18=-304/7

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	F103	FLOOR	1	1	I48734683
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:56:58 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-JN7C92PkJ0Y4Q6Ve4JRoulXm5B_T7?8WaeMYNqyKtlZ

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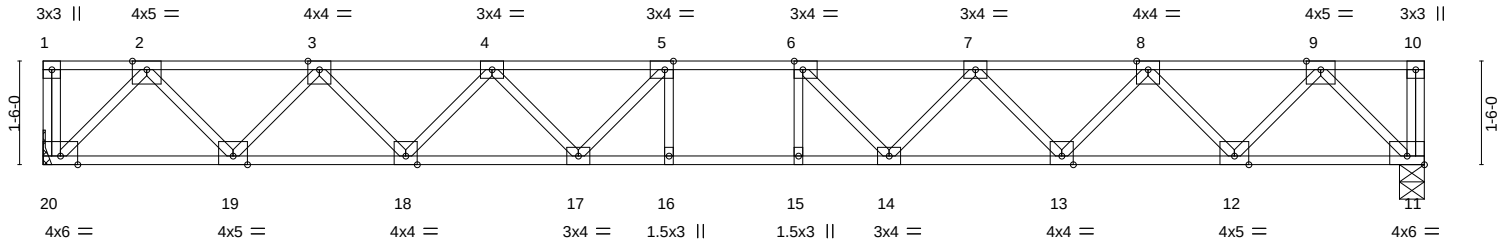

20-0-0
20-0-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.25	15-16	>943	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.41	15-16	>579	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 107 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 11=0-4-5
Max Grav 20=1284(LC 1), 11=1284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2096/0, 3-4=-3516/0, 4-5=-4331/0, 5-6=-4592/0, 6-7=-4331/0, 7-8=-3516/0, 8-9=-2096/0
BOT CHORD 19-20=0/1223, 18-19=0/2944, 17-18=0/4065, 16-17=0/4592, 15-16=0/4592, 14-15=0/4592, 13-14=0/4065, 12-13=0/2944, 11-12=0/1223
WEBS 2-20=-1729/0, 2-19=0/1299, 3-19=-1261/0, 3-18=0/850, 4-18=-816/0, 4-17=0/508, 5-17=-648/18, 9-11=-1729/0, 9-12=0/1299, 8-12=-1261/0, 8-13=0/850, 7-13=-816/0, 7-14=0/508, 6-14=-648/18

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW1	GABLE	2	1	I48734684
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:43 2021 Page 1
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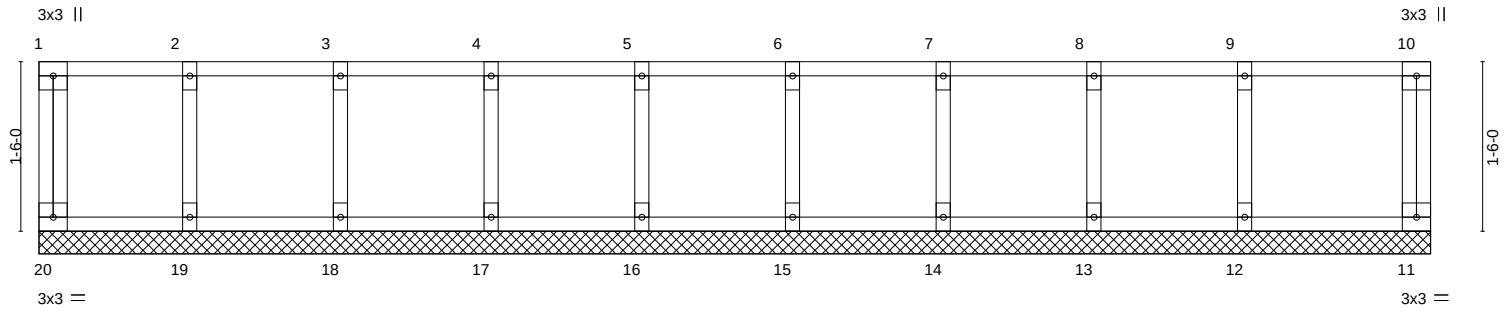

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW2	GABLE	1	1	I48734685
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:53 2021 Page 1
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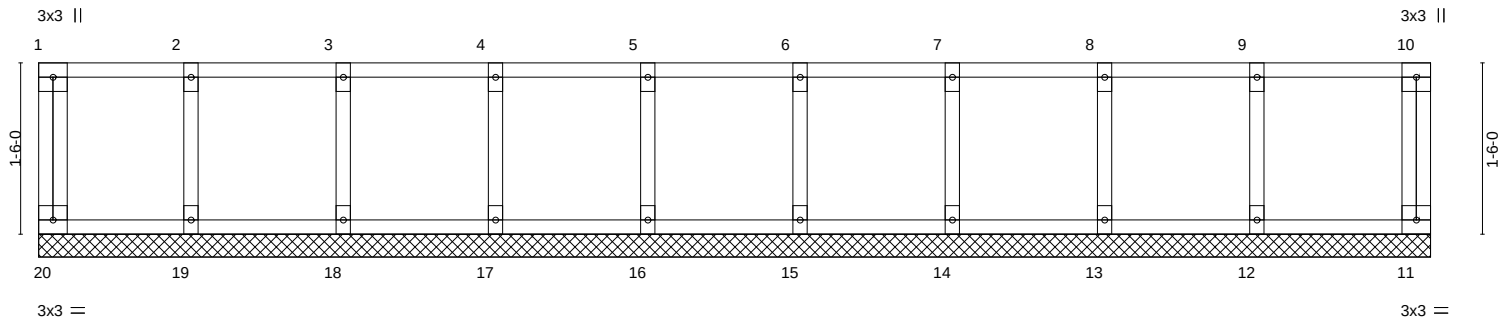

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW3	GABLE	1	1	I48734686
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:58 2021 Page 1
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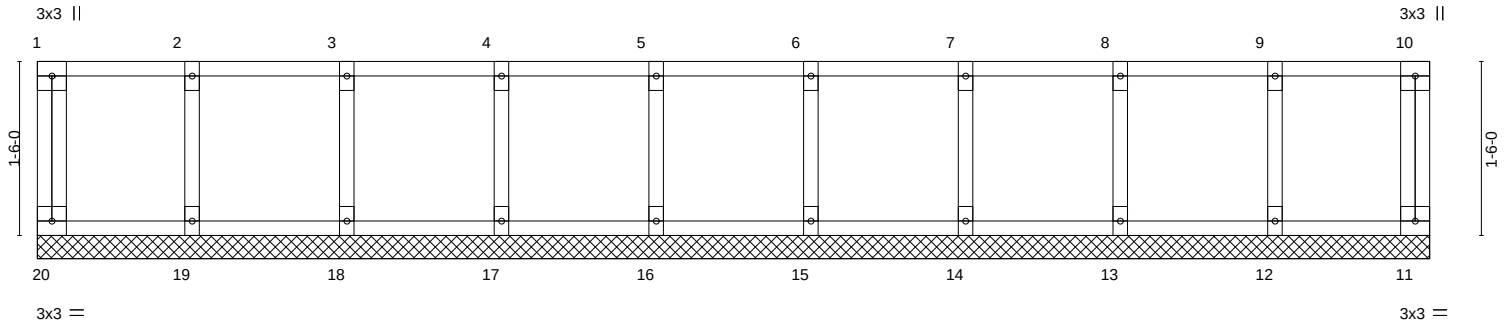

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW4	GABLE	1	1	I48734687
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:59 2021 Page 1
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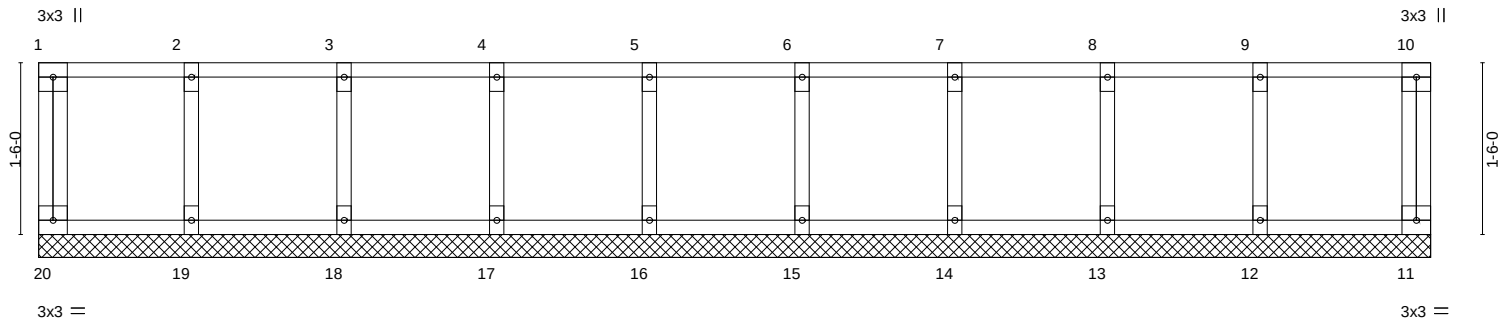

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-14

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW5	GABLE	2	1	I48734688
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:59:00 2021 Page 1
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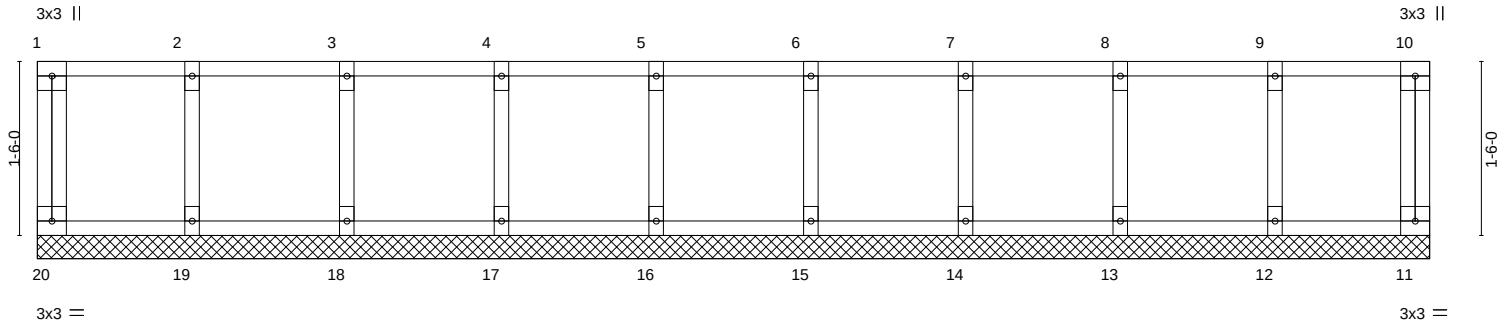

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW6	GABLE	1	1	I48734689
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:59:01 2021 Page 1
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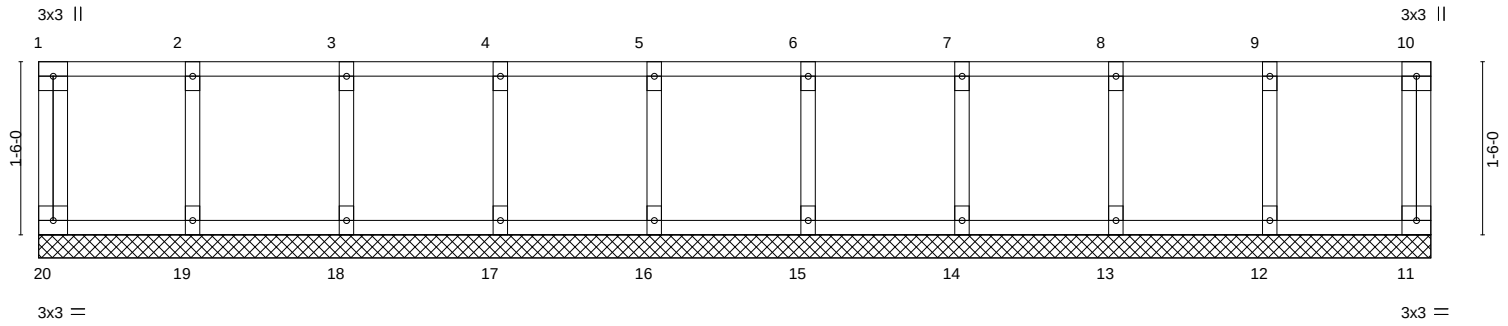

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW7	GABLE	1	1	I48734690
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:59:01 2021 Page 1
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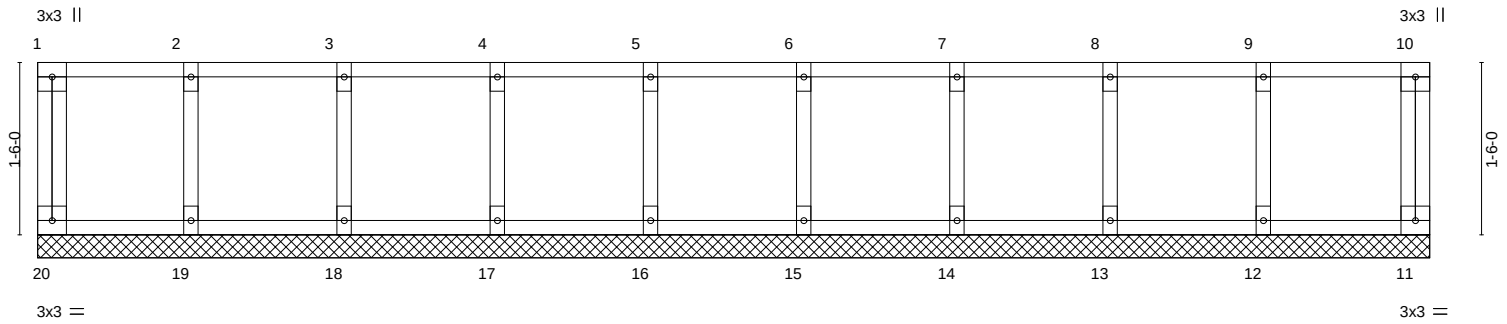

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW8	GABLE	1	1	I48734691
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:59:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hEd4ARvW769UIAzTKMftvuf8pASbAD1m5xO6jeyKtjd

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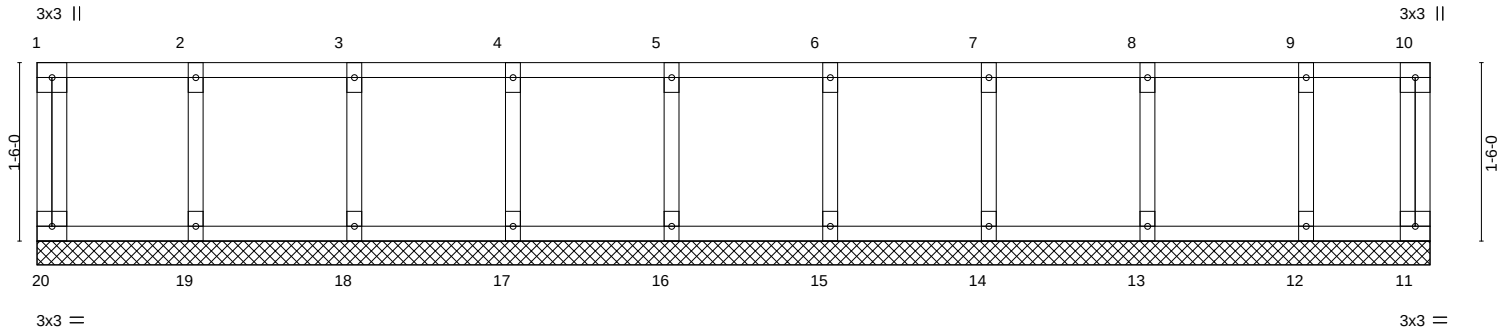

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW9	GABLE	1	1	I48734692
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:59:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9QBSOnw8tQHLvJYfu3A6S6CJcaorvgIwKb7gG4yKtjc

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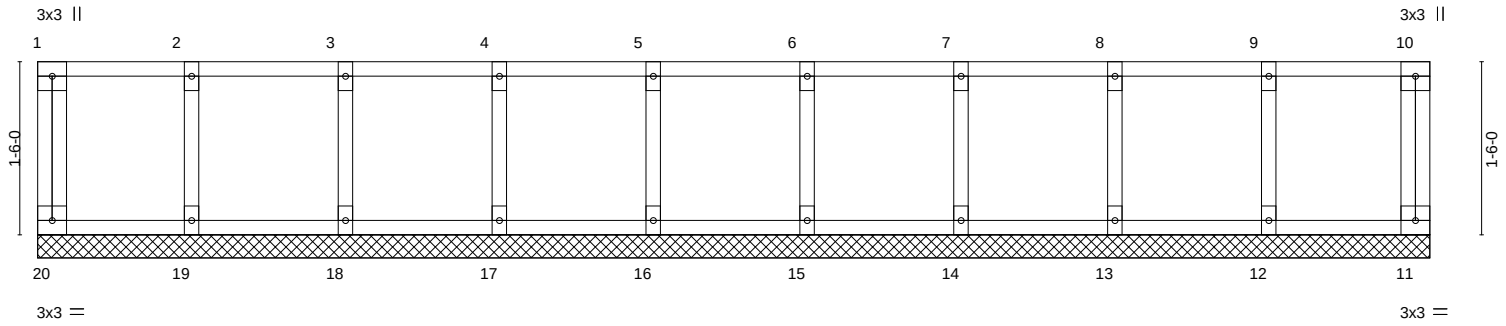

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW10	GABLE	1	1	I48734693
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:44 2021 Page 1
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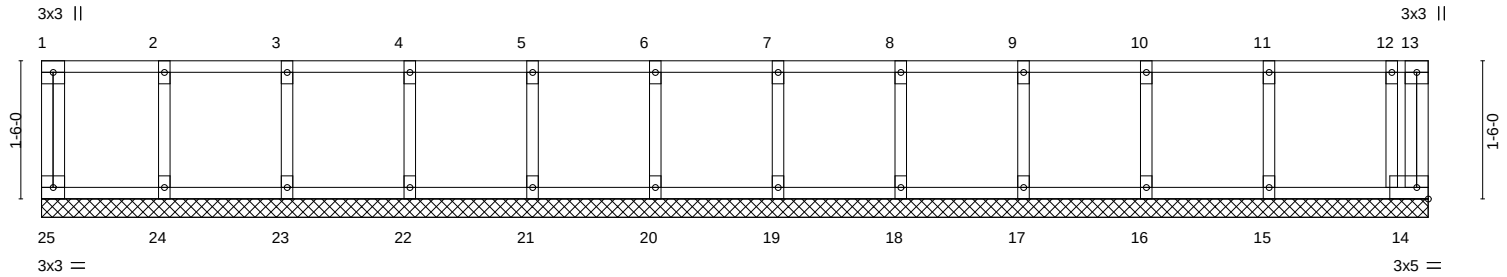

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW11	GABLE	1	1	I48734694
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:45 2021 Page 1
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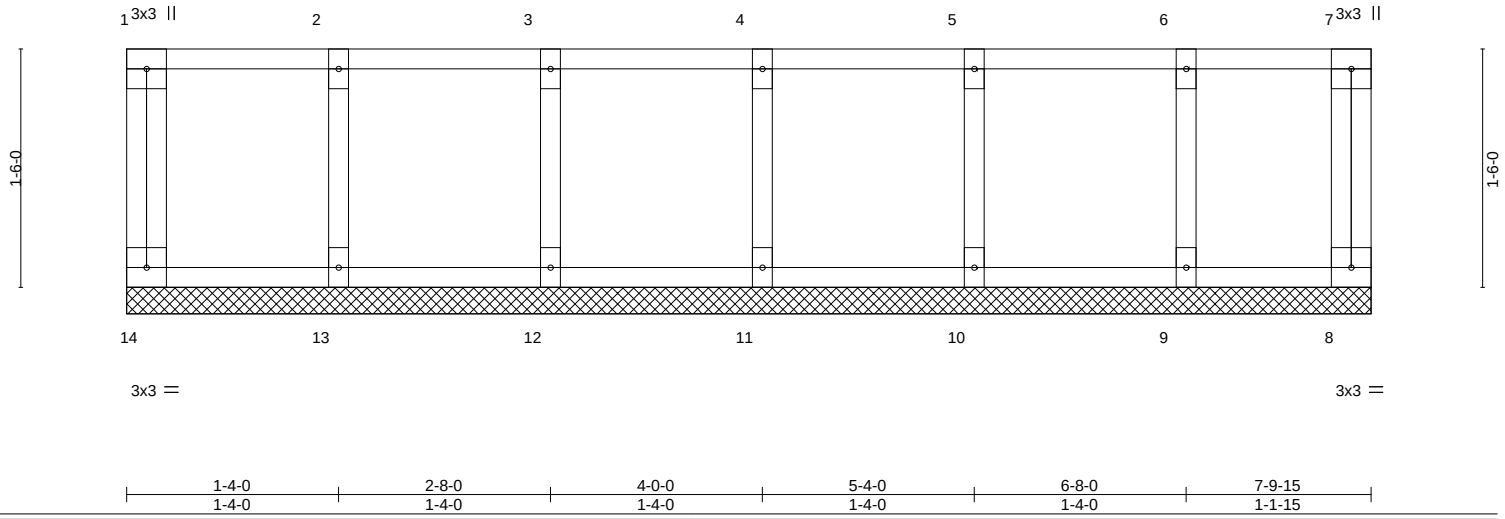

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-9-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW12	GABLE	1	1	I48734695
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:47 2021 Page 1
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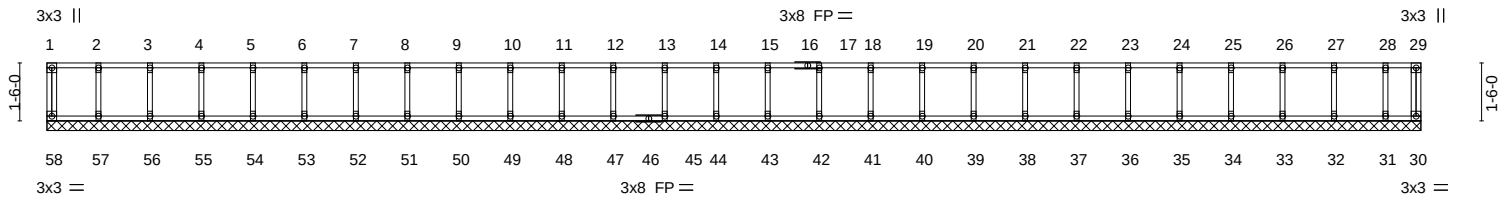

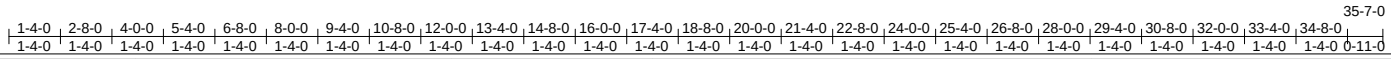

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 162 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW13	GABLE	1	1	I48734696
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:48 2021 Page 1
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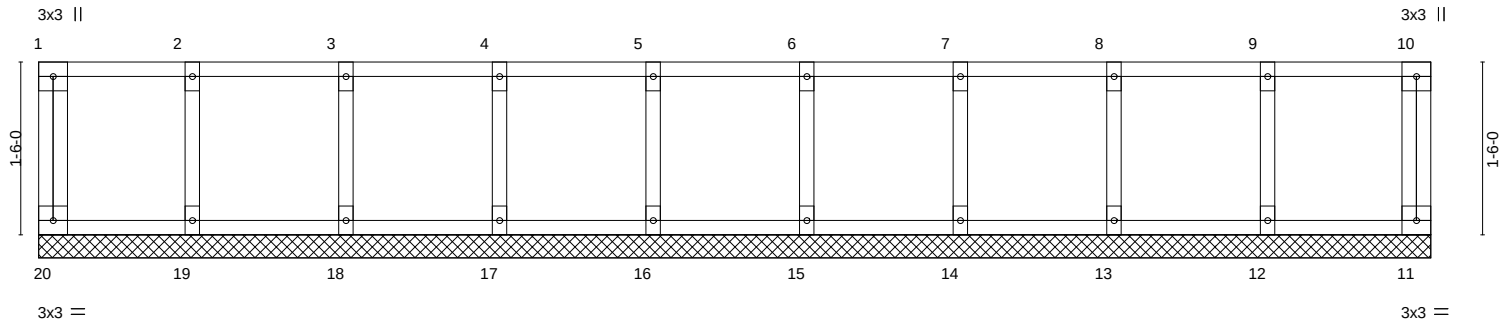

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW14	GABLE	2	1	I48734697
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:48 2021 Page 1
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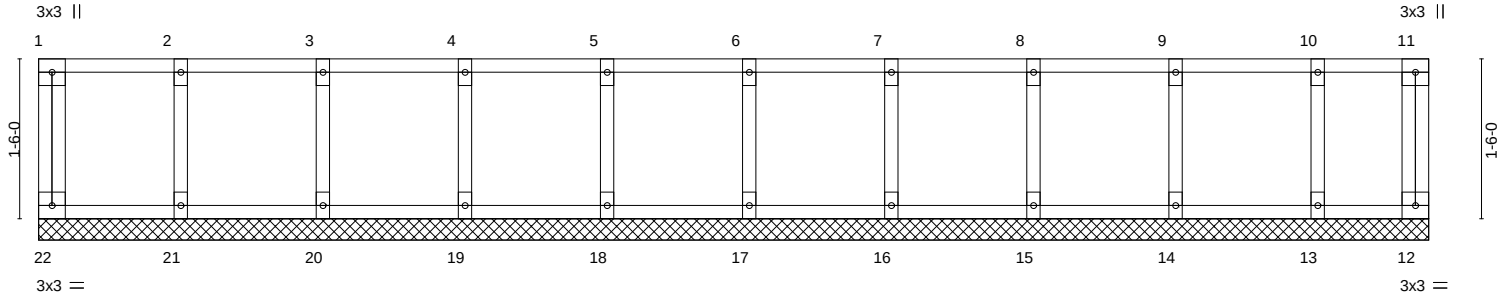

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-0-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-0-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW15	GABLE	1	1	I48734698
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:49 2021 Page 1
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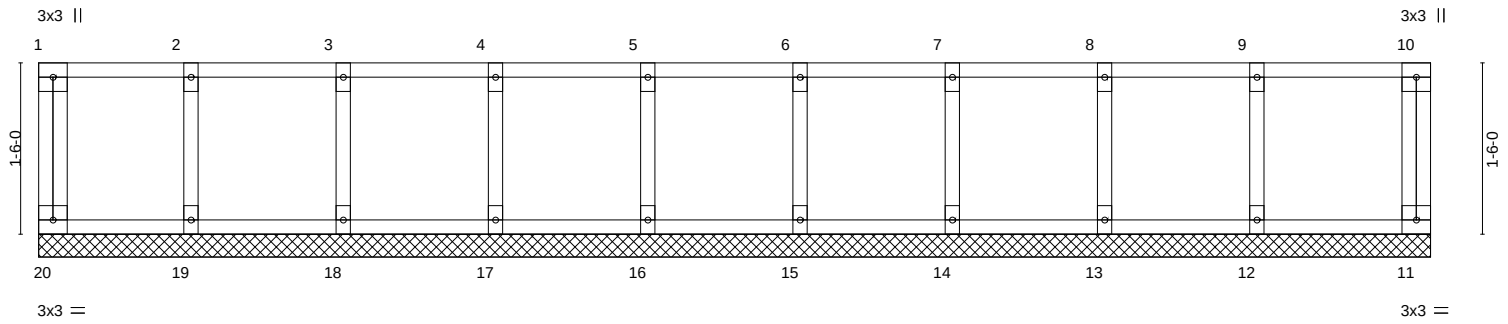

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW16	GABLE	1	1	I48734699
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:50 2021 Page 1
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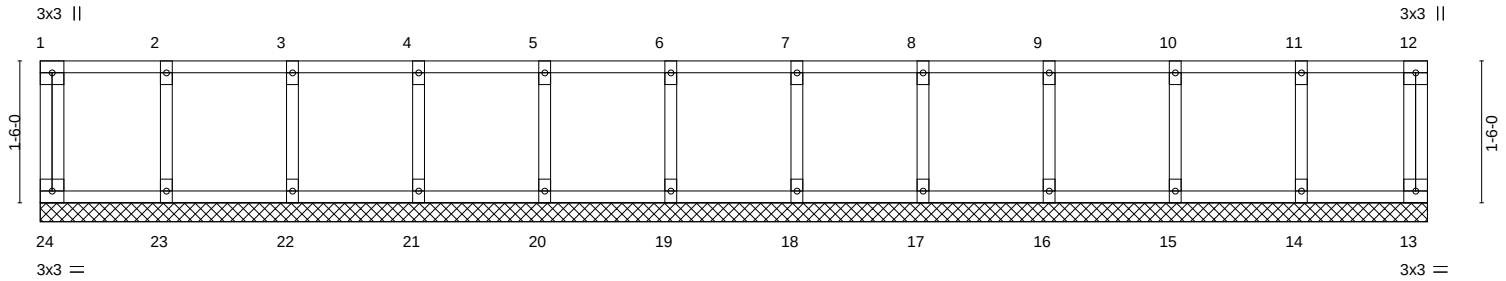

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW17	GABLE	1	1	I48734700
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:51 2021 Page 1
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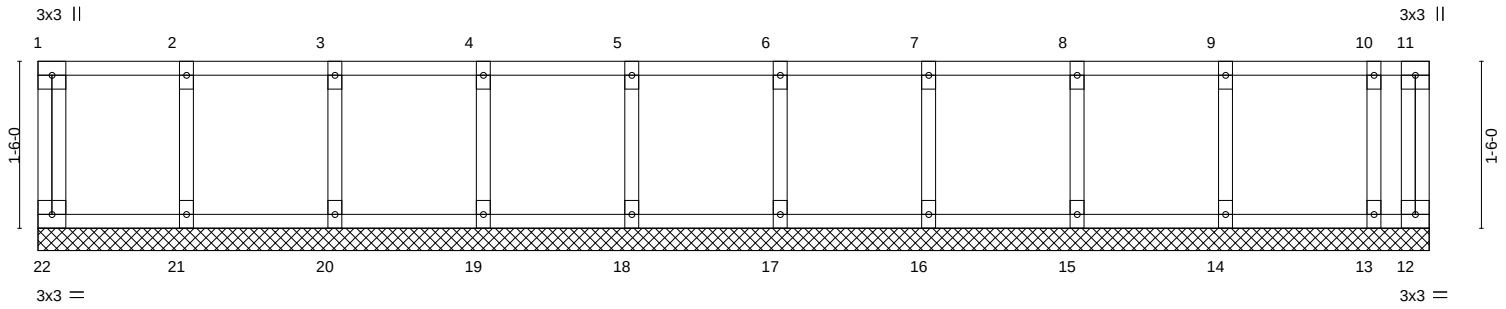

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-5-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-5-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW18	GABLE	1	1	I48734701
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:51 2021 Page 1
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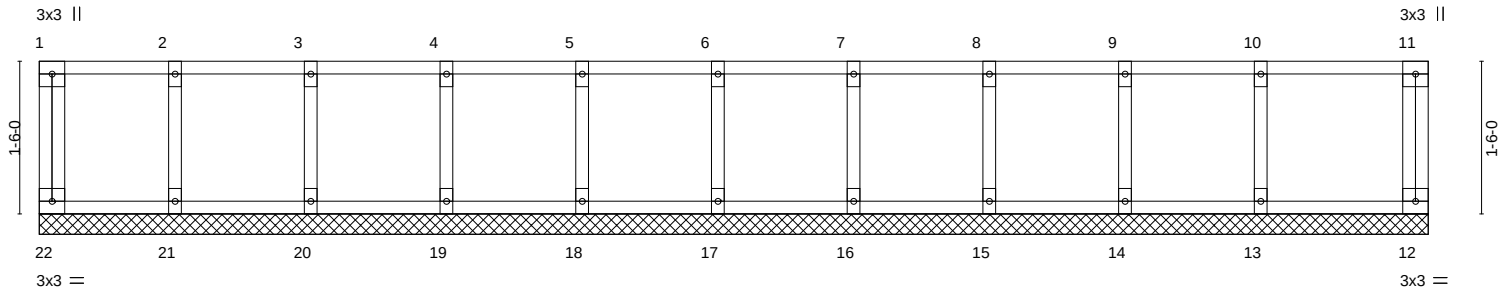

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-7-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-7-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW19	GABLE	1	1	I48734702
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:53 2021 Page 1
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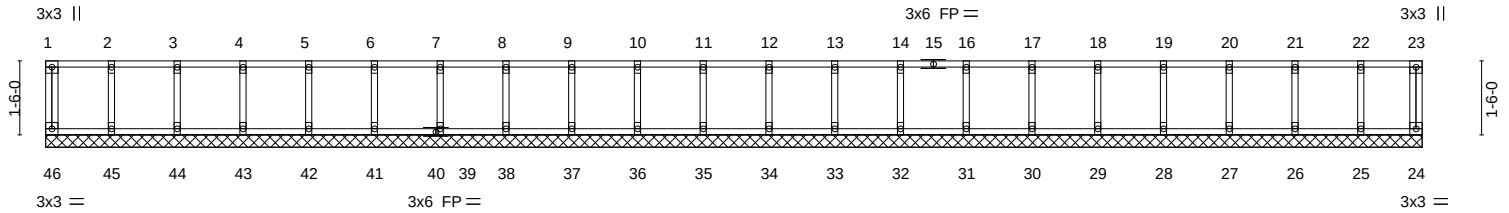

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	27-10-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-10-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 10,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW21	GABLE	1	1	I48734703
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:54 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wi83VipV?f9dKxMwsgW?bCKmlyjeIc1bFhShR5yKtjl

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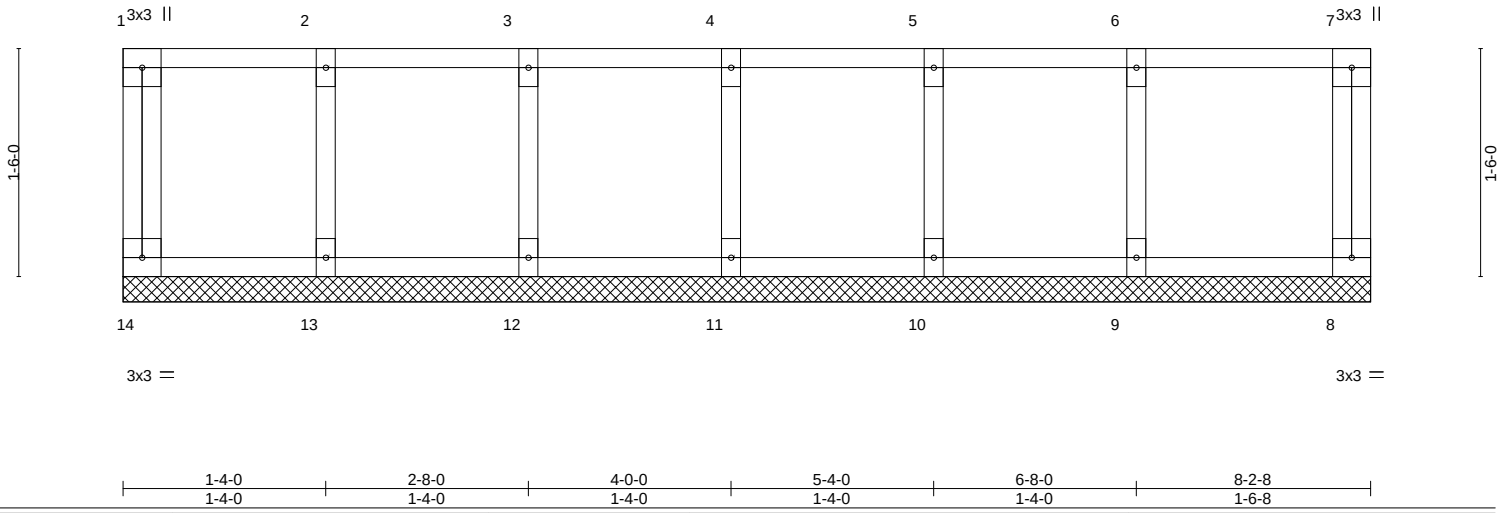

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-2-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW22	GABLE	1	1	I48734704
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:55 2021 Page 1
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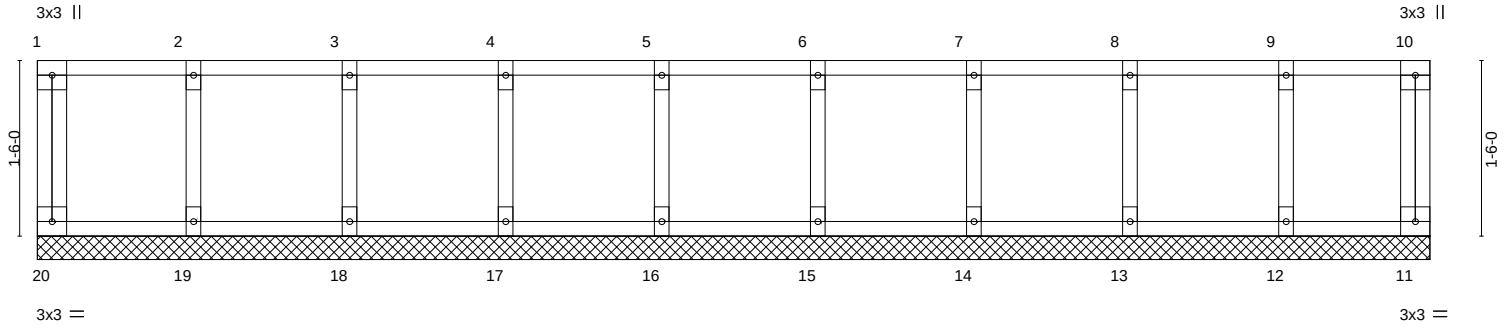

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW23	GABLE	1	1	I48734705
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:56 2021 Page 1
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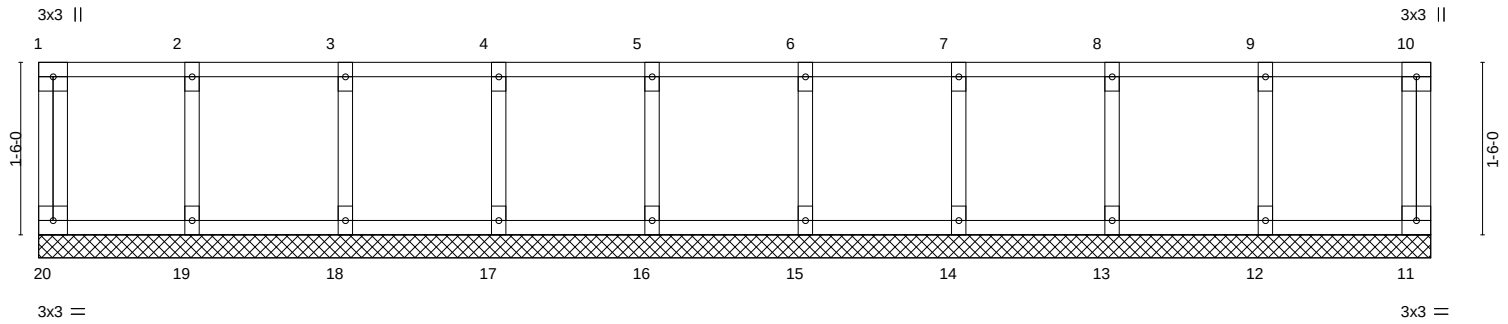

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW24	GABLE	1	1	I48734706
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:56 2021 Page 1
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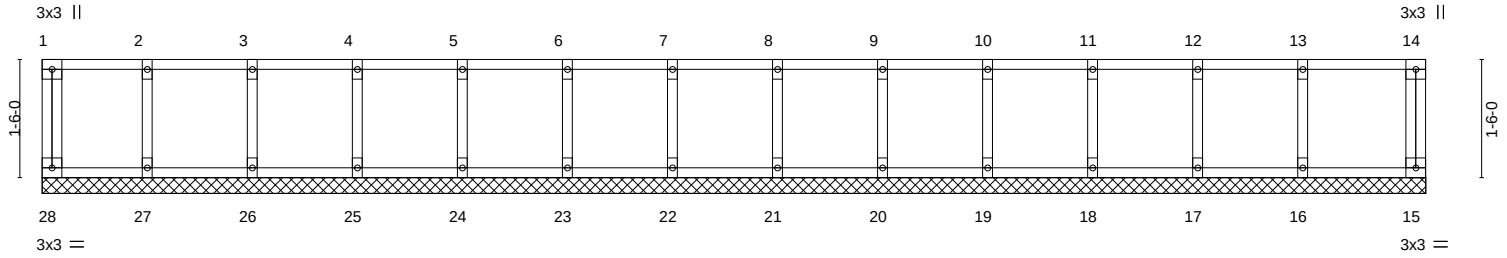

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-6-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-6-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F1A	KW25	GABLE	1	1	I48734707
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Nov 9 14:58:58 2021 Page 1
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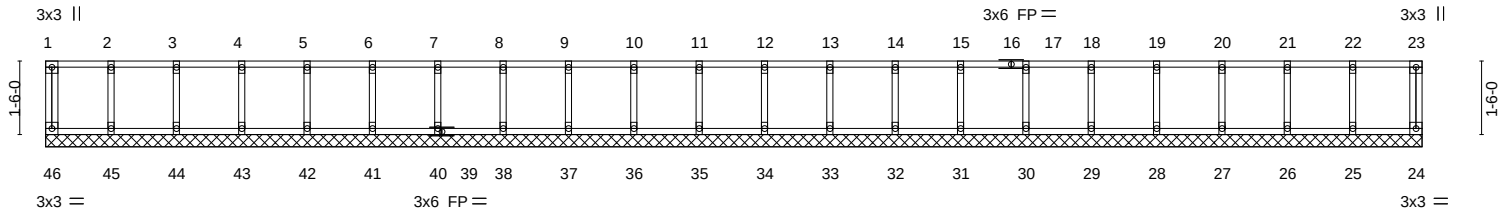

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
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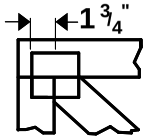
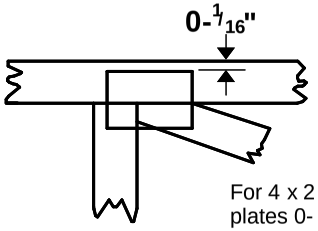
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

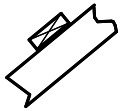
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

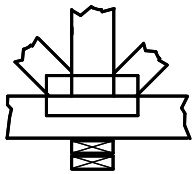
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

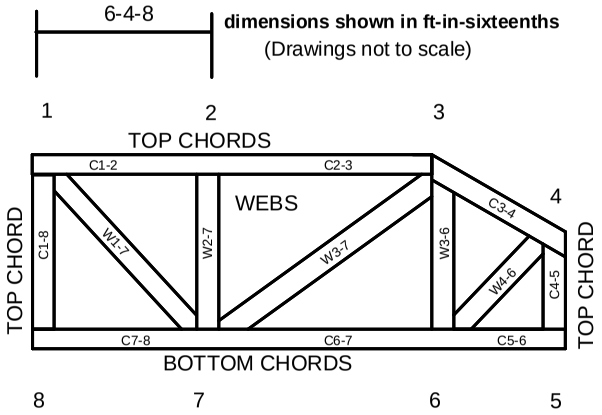


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

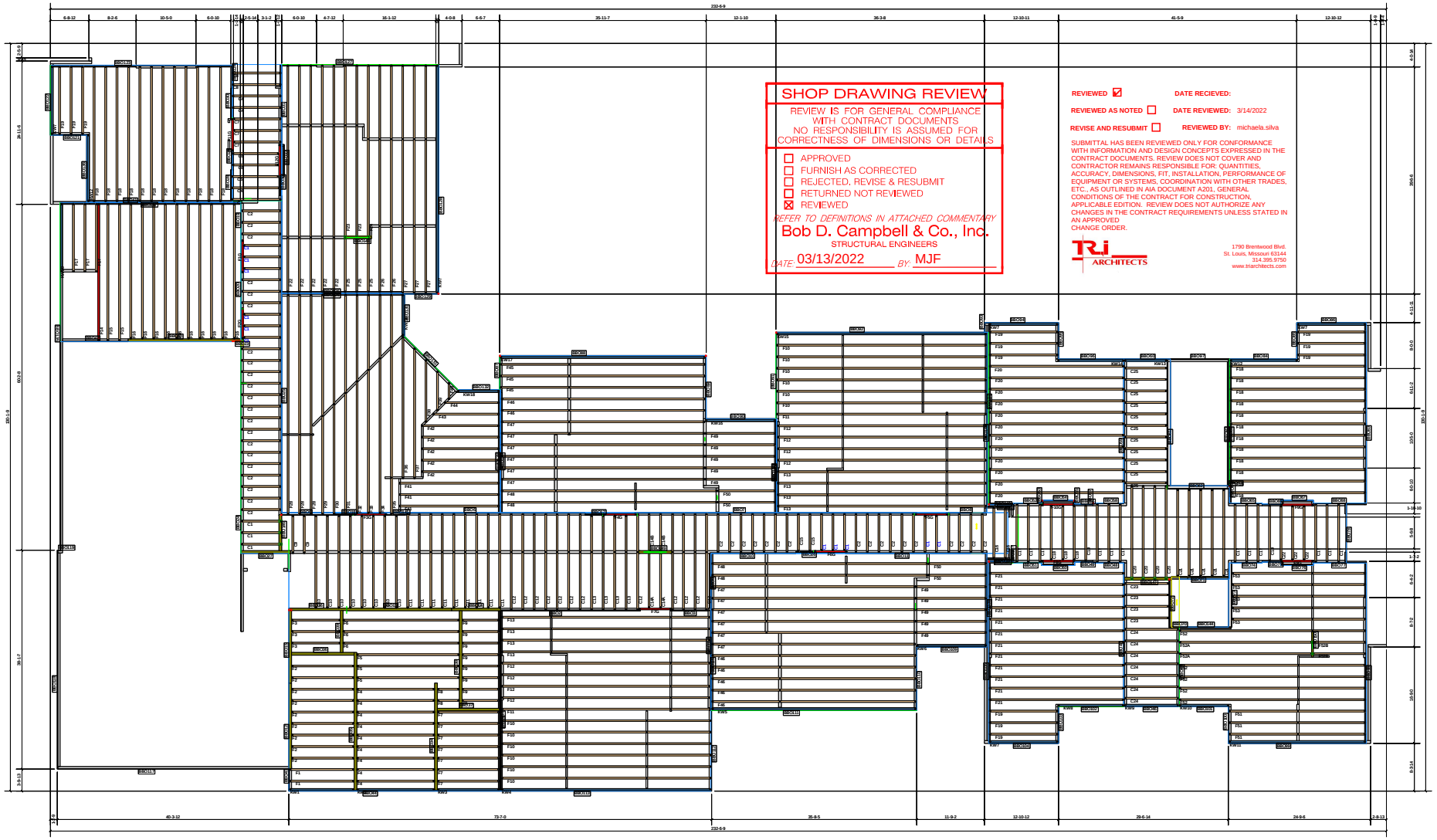
General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area A Level 2

Building 1 Area B Level 2



Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C1	Floor	14	1	I50651180
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:36 2022 Page 1
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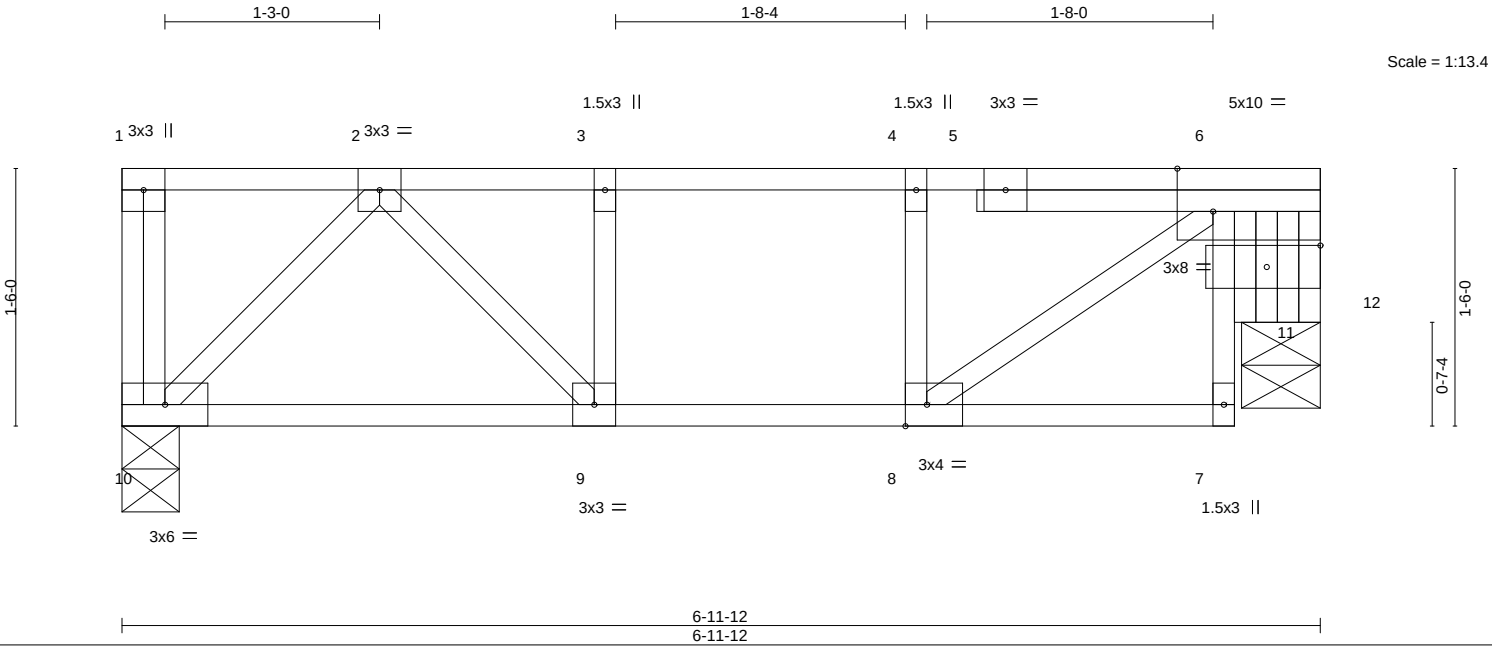

Plate Offsets (X,Y)-- [6:0-2-8,Edge], [8:0-1-8,Edge], [12:0-3-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.08	9-10	>959	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-P							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 12=0-5-8
Max Grav 10=807(LC 1), 12=766(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-903/0, 3-4=-903/0, 4-6=-908/0
BOT CHORD	9-10=0/656, 8-9=0/903
WEBS	2-10=-928/0, 2-9=0/468, 3-9=-296/0, 6-8=0/1013, 4-8=-530/0, 6-12=-786/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/13/2022 BY: MJF

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 3/14/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C2	Floor	38	1	I50651181
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:47 2022 Page 1
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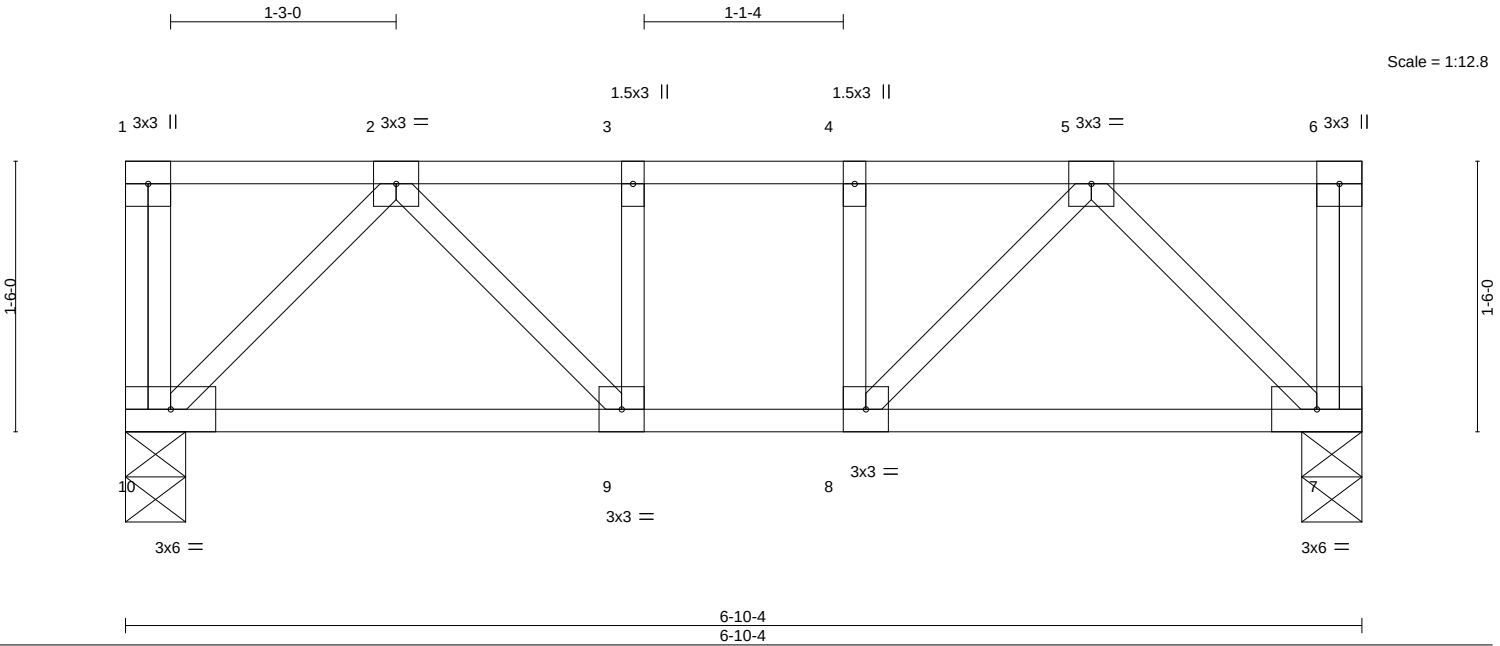

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=825(LC 1), 7=825(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	5-7=-963/0, 2-10=-963/0, 5-8=0/507, 2-9=0/507, 3-9=-293/0, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C3	Floor	1	1	I50651182
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:52 2022 Page 1
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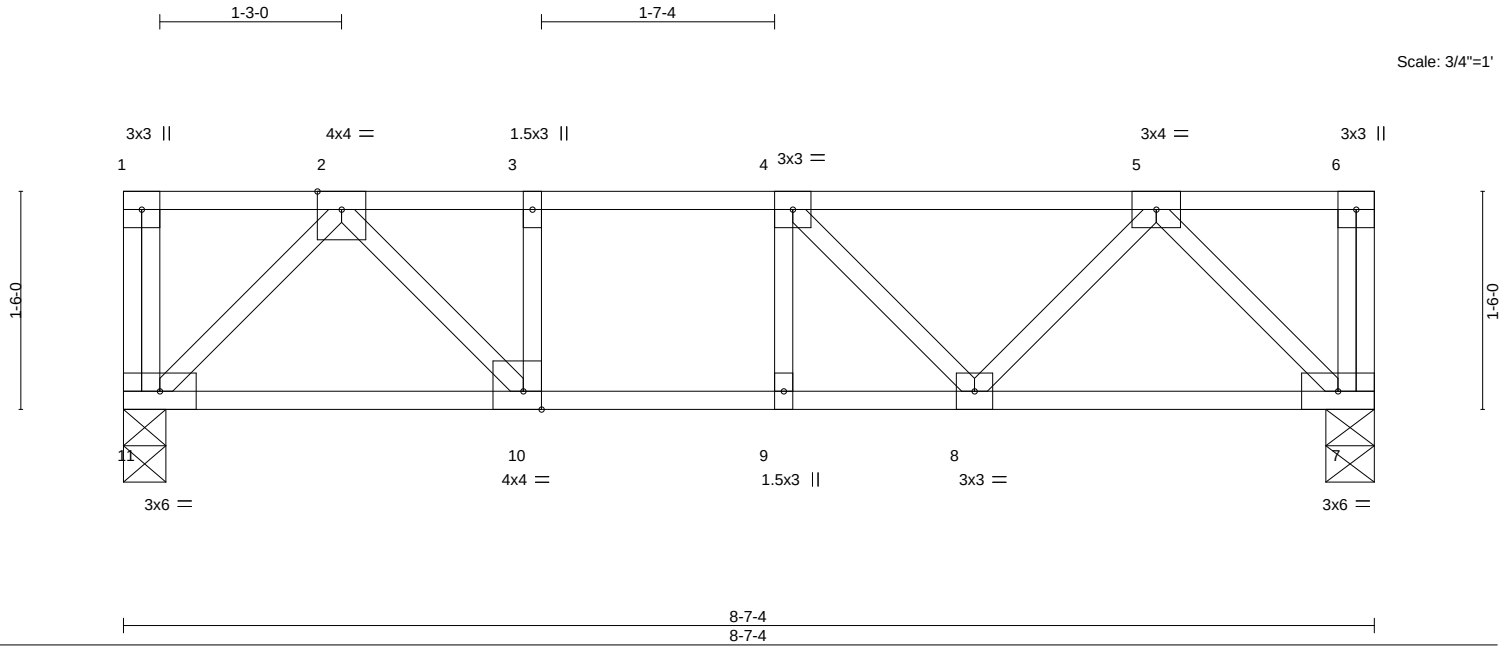

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.12	8-9	>836	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.14	8-9	>714	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

REACTIONS. (size) 11=0-3-8, 7=0-4-0
Max Grav 11=1044(LC 1), 7=1044(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1528/0, 3-4=-1528/0, 4-5=-1299/0
BOT CHORD 10-11=0/911, 9-10=0/1528, 8-9=0/1528, 7-8=0/969
WEBS 5-7=-1370/0, 2-11=-1288/0, 5-8=0/491, 2-10=0/941, 4-8=-460/0, 3-10=-489/0, 4-9=-279/42

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C4	Floor	3	1	I50651183
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:53 2022 Page 1
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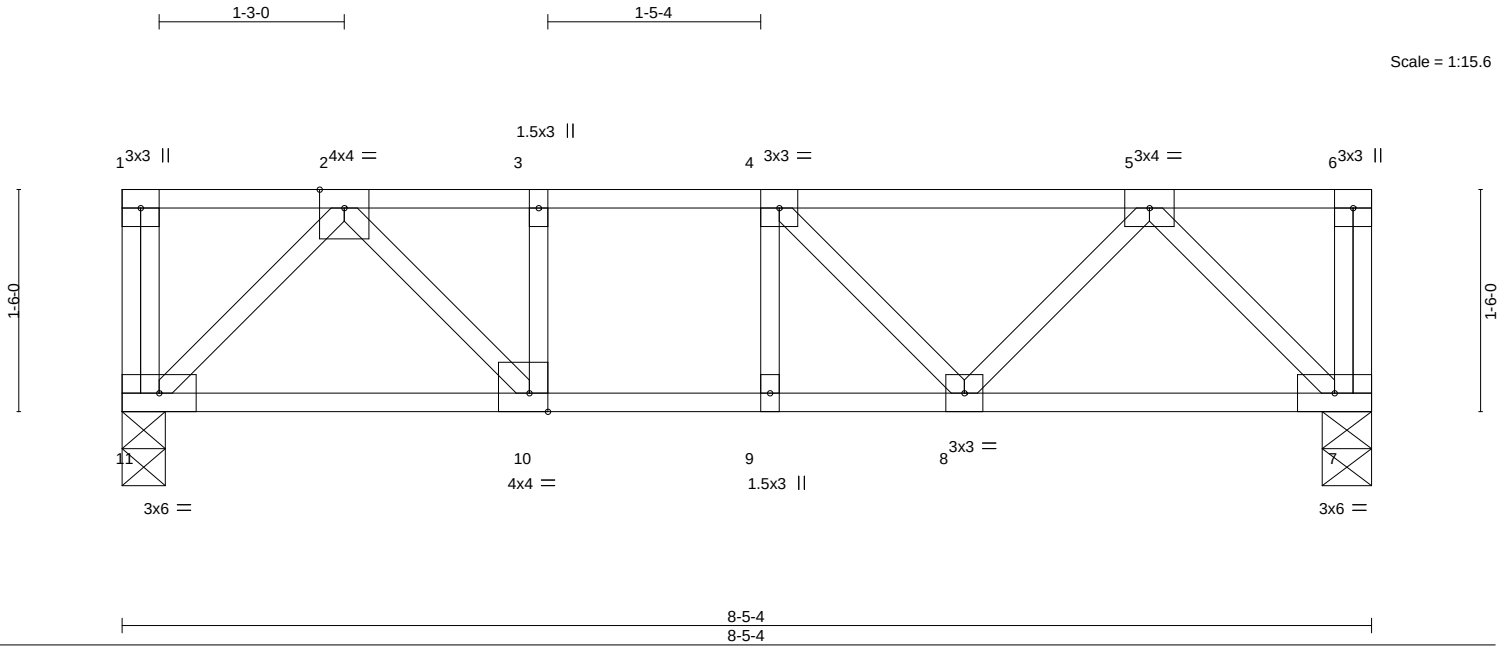

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.10	8-9	>949	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.12	8-9	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=0-4-0
Max Grav 11=1023(LC 1), 7=1023(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1474/0, 3-4=-1474/0, 4-5=-1260/0
BOT CHORD 10-11=0/890, 9-10=0/1474, 8-9=0/1474, 7-8=0/948
WEBS 5-7=-1340/0, 2-11=-1259/0, 5-8=0/464, 2-10=0/889, 4-8=-432/0, 3-10=-452/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C5	Floor	1	1	I50651184
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:54 2022 Page 1
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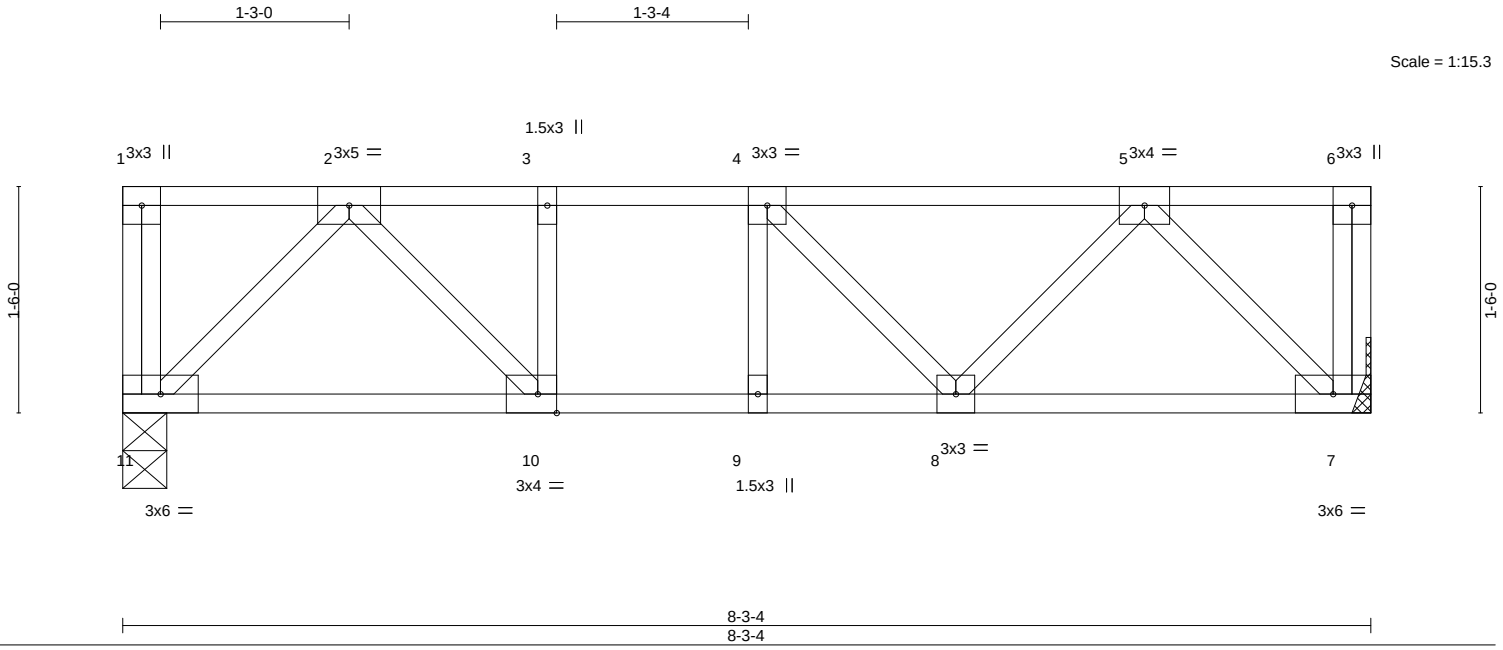

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.09	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.10	8-9	>926	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Grav 11=1003(LC 1), 7=1003(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1420/0, 3-4=-1420/0, 4-5=-1220/0
BOT CHORD 10-11=0/869, 9-10=0/1420, 8-9=0/1420, 7-8=0/926
WEBS 5-7=-1309/0, 2-11=-1230/0, 5-8=0/438, 2-10=0/838, 4-8=-403/0, 3-10=-414/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C6	Floor	2	1	I50651185
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:54 2022 Page 1
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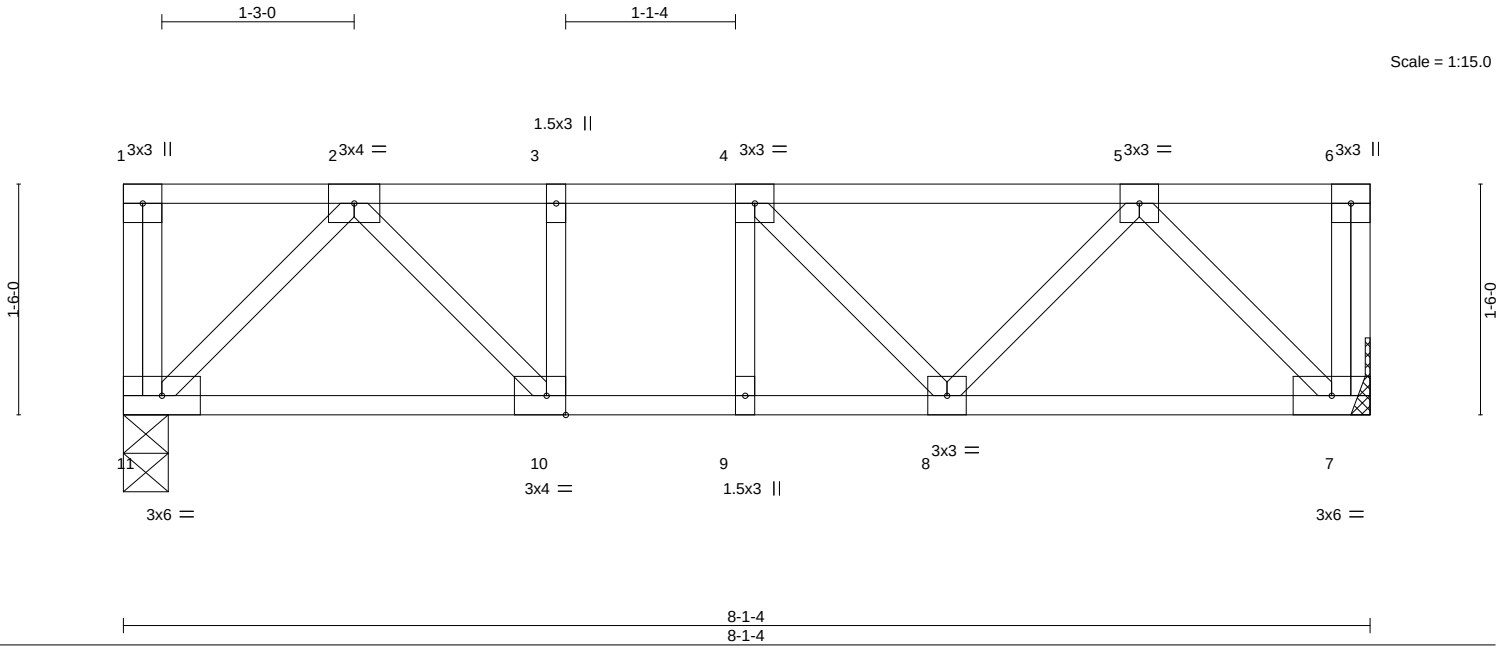

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.09	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Grav 11=982(LC 1), 7=982(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1368/0, 3-4=-1368/0, 4-5=-1181/0
BOT CHORD 10-11=0/848, 9-10=0/1368, 8-9=0/1368, 7-8=0/904
WEBS 5-7=-1278/0, 2-11=-1200/0, 5-8=0/412, 2-10=0/789, 4-8=-376/0, 3-10=-377/0, 4-9=-281/40

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C7	Floor	3	1	I50651186
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:55 2022 Page 1
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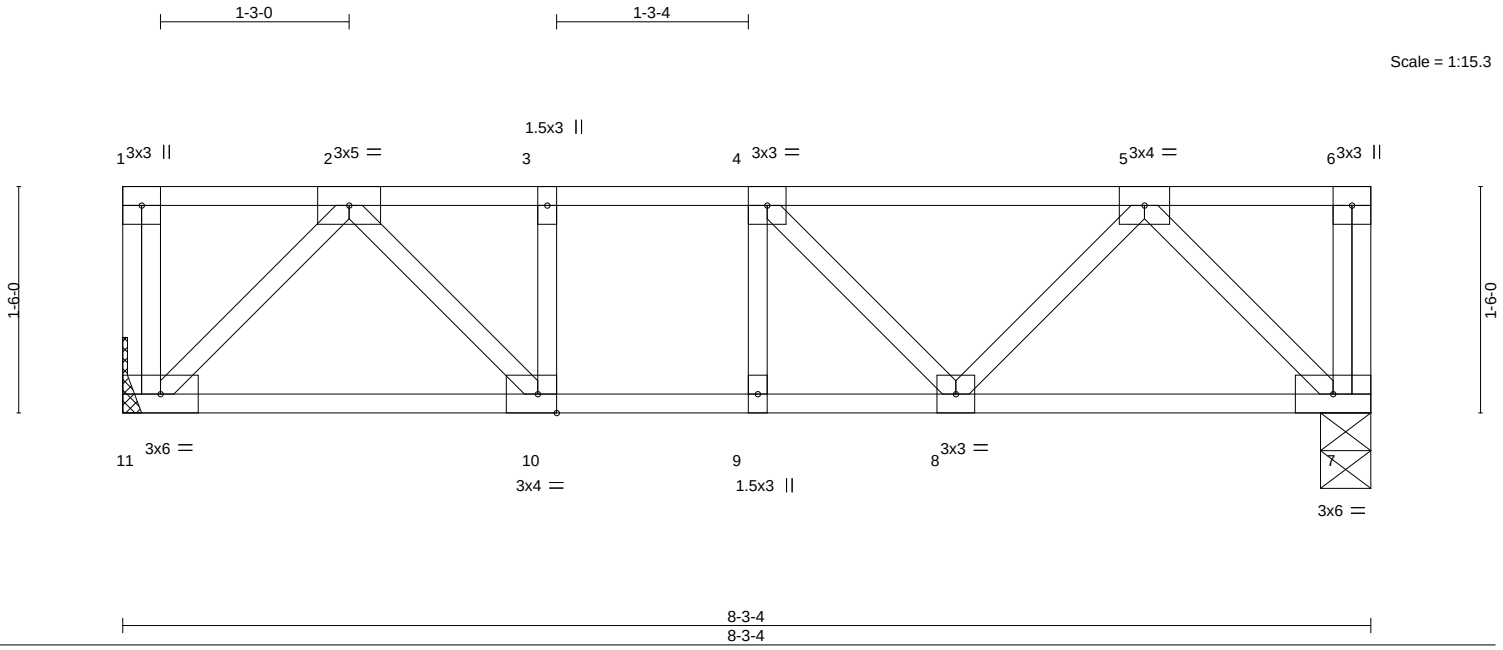

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.09	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.10	8-9	>926	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=0-4-0
Max Grav 11=1003(LC 1), 7=1003(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1420/0, 3-4=-1420/0, 4-5=-1220/0
BOT CHORD 10-11=0/869, 9-10=0/1420, 8-9=0/1420, 7-8=0/926
WEBS 5-7=-1309/0, 2-11=-1229/0, 5-8=0/438, 2-10=0/838, 4-8=-403/0, 3-10=-414/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C8	Floor	2	1	I50651187
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:56 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-v97dAjG75pA518sSg7UIE4oRQ0wO8P?DQyUZ?Izd03f

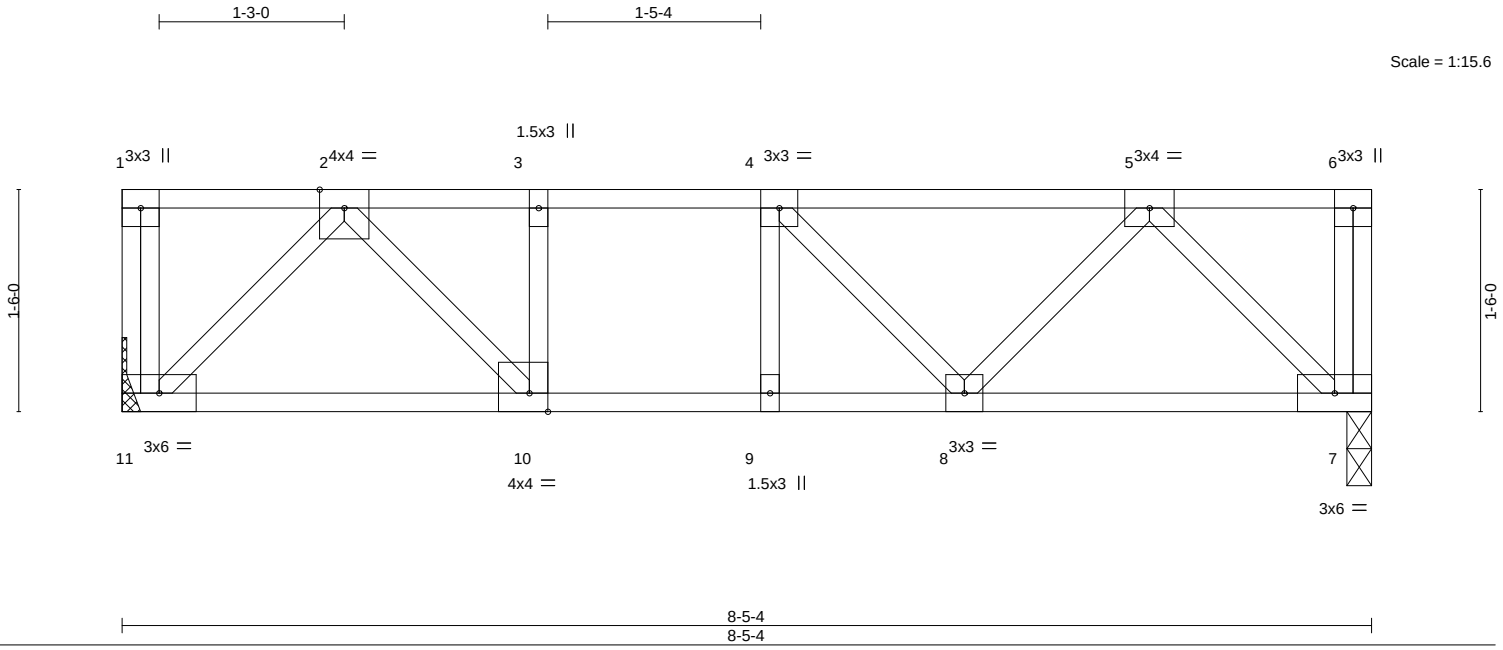

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.10	8-9	>949	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.12	8-9	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=0-2-0
Max Grav 11=1023(LC 1), 7=1023(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1474/0, 3-4=-1474/0, 4-5=-1260/0
BOT CHORD	10-11=0/890, 9-10=0/1474, 8-9=0/1474, 7-8=0/948
WEBS	5-7=-1340/0, 2-11=-1259/0, 5-8=0/464, 2-10=0/889, 4-8=-432/0, 3-10=-452/0, 4-9=-279/41

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C9	Floor	2	1	I50651188
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:56 2022 Page 1
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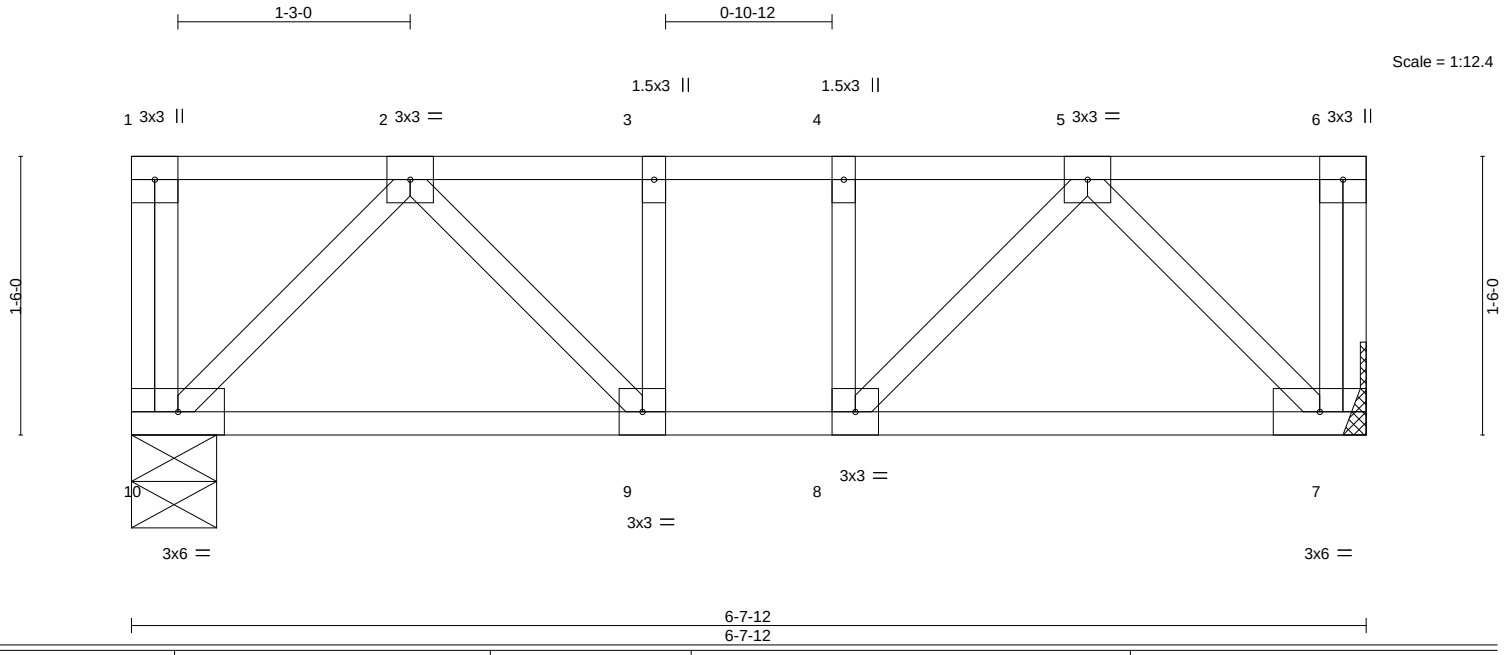

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 7=Mechanical
Max Grav 10=800(LC 1), 7=800(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-923/0, 3-4=-923/0, 4-5=-923/0
BOT CHORD	9-10=0/656, 8-9=0/923, 7-8=0/656
WEBS	5-7=-927/0, 2-10=-927/0, 5-8=0/459, 2-9=0/459, 3-9=-261/0, 4-8=-261/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C10	Floor	8	1	I50651189
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:37 2022 Page 1
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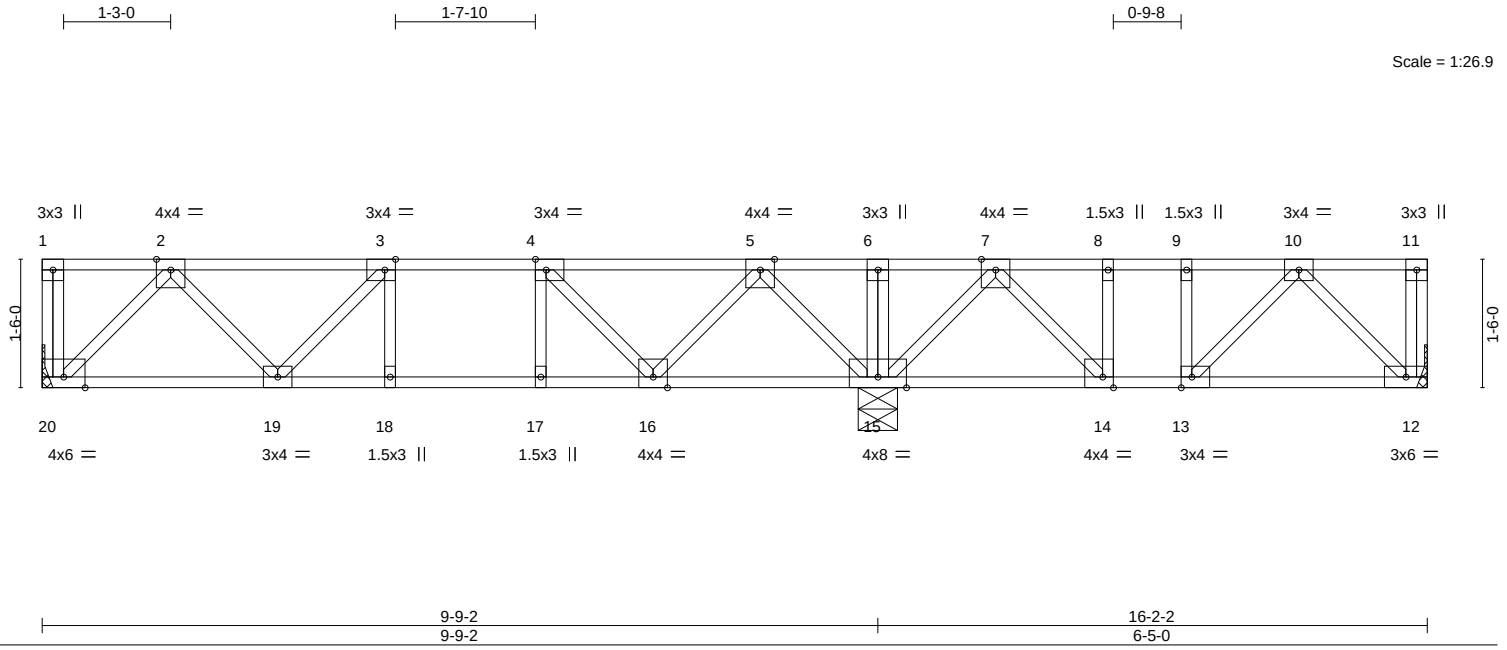

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.12	18-19	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.13	18-19	>887	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 93 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 12=Mechanical, 15=0-5-8
Max Grav 20=1371(LC 10), 12=969(LC 7), 15=2654(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1784/0, 3-4=-2268/0, 4-5=-1549/0, 5-6=-157/1211, 6-7=-157/1211, 7-8=-1132/116, 8-9=-1132/116, 9-10=-1132/116
BOT CHORD 19-20=0/1265, 18-19=0/2268, 17-18=0/2268, 16-17=0/2268, 15-16=-11/876, 14-15=-341/861, 13-14=-116/1132, 12-13=-8/799
WEBS 6-15=-347/0, 2-20=-1790/0, 5-15=-1977/0, 2-19=0/770, 5-16=0/1063, 3-19=-701/0, 4-16=-1154/0, 3-18=-259/107, 4-17=-87/285, 10-12=-1130/12, 7-15=-1433/0, 10-13=-156/482, 7-14=0/949, 8-14=-548/0, 9-13=-312/78

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C11	Floor	9	1	I50651190
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:38 2022 Page 1
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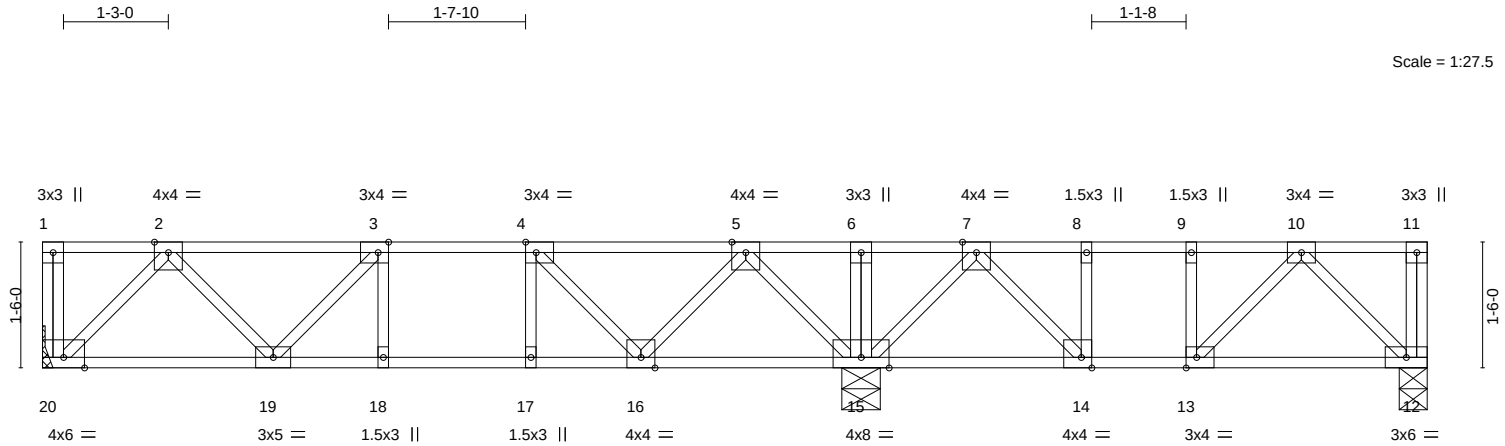

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.12	18-19	>989	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.13	18-19	>878	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 94 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 20=1392(LC 10), 12=1010(LC 7), 15=2667(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1825/0, 3-4=-2343/0, 4-5=-1659/0, 5-6=-120/1059, 6-7=-120/1059, 7-8=-1217/58, 8-9=-1217/58, 9-10=-1217/58
BOT CHORD 19-20=0/1285, 18-19=0/2343, 17-18=0/2343, 16-17=0/2343, 15-16=0/1007, 14-15=-274/880, 13-14=-58/1217, 12-13=0/838
WEBS 6-15=-350/0, 2-20=-1817/0, 5-15=-1975/0, 2-19=0/803, 5-16=0/1062, 3-19=-751/0, 4-16=-1152/0, 3-18=-265/131, 4-17=-112/291, 10-12=-1185/0, 7-15=-1440/0, 10-13=-117/549, 7-14=0/984, 8-14=-582/0, 9-13=-364/57

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C12	Floor	12	1	I50651191
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:39 2022 Page 1
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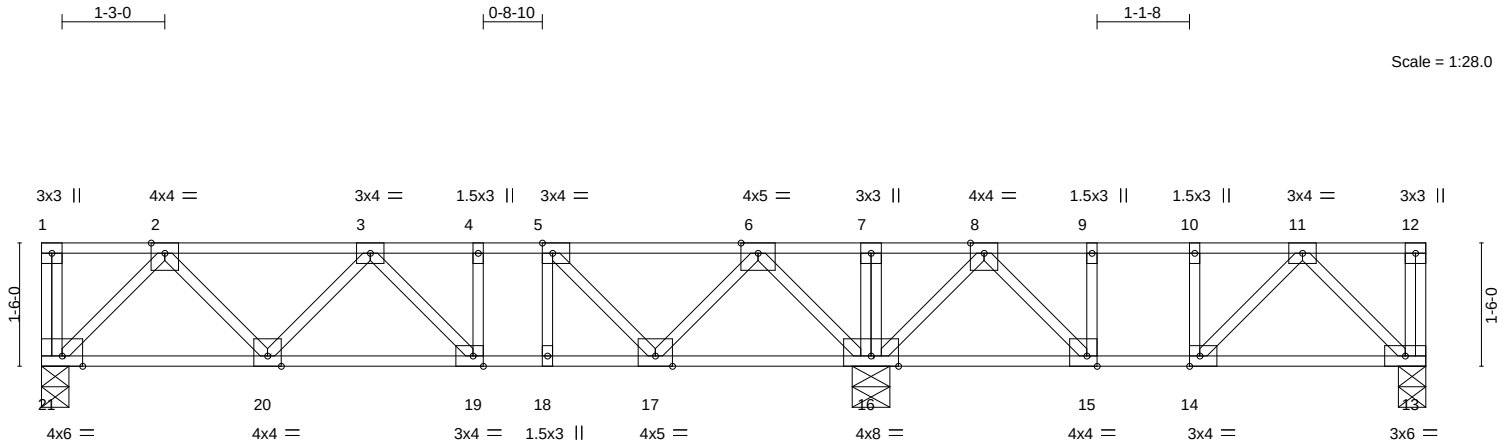

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-0, 13=0-4-0, 16=0-5-8
Max Grav 21=1419(LC 10), 13=926(LC 4), 16=2808(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1889/0, 3-4=-2374/0, 4-5=-2374/0, 5-6=-1622/0, 6-7=0/1124, 7-8=0/1124, 8-9=-1016/171, 9-10=-1016/171, 10-11=-1016/171
BOT CHORD 20-21=0/1298, 19-20=0/2445, 18-19=0/2374, 17-18=0/2374, 16-17=-62/895, 15-16=-455/561, 14-15=-171/1016, 13-14=-25/752
WEBS 7-16=-361/0, 2-21=-1836/0, 6-16=-2104/0, 2-20=0/878, 6-17=0/1195, 3-20=-828/0, 5-17=-1251/0, 3-19=-473/323, 5-18=-168/324, 11-13=-1064/36, 8-16=-1379/0, 11-14=-211/383, 8-15=0/914, 9-15=-553/0, 10-14=-287/102

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C13	Floor	4	1	I50651192
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:40 2022 Page 1
ID:fbPe_OLI9YQ0M7VZeqph0MzGCvL-N49apF45tu9N6geNkmCYai8hrZVbO7eskTcjQDzd03v

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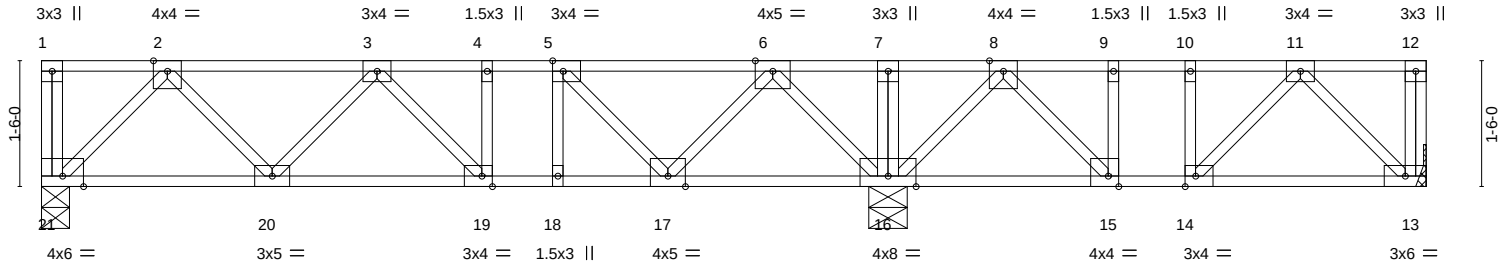

10-1-2 16-6-2
10-1-2 6-5-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-0, 13=Mechanical, 16=0-5-8
Max Uplift 13=-42(LC 3)
Max Grav 21=1384(LC 10), 13=864(LC 4), 16=2831(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1824/0, 3-4=-2233/0, 4-5=-2233/0, 5-6=-1436/0, 6-7=0/1208, 7-8=0/1208, 8-9=-893/272, 9-10=-893/272, 10-11=-893/272
BOT CHORD 20-21=0/1264, 19-20=0/2347, 18-19=0/2233, 17-18=0/2233, 16-17=-95/677, 15-16=-586/486, 14-15=-272/893, 13-14=-78/692
WEBS 7-16=-359/0, 2-21=-1787/0, 6-16=-2120/0, 2-20=0/833, 6-17=0/1211, 3-20=-778/0, 5-17=-1272/0, 3-19=-493/285, 5-18=-152/332, 11-13=-979/110, 8-16=-1378/0, 11-14=-281/290, 8-15=0/891, 9-15=-524/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C14A	Floor	2	1	I50651193
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:41 2022 Page 1
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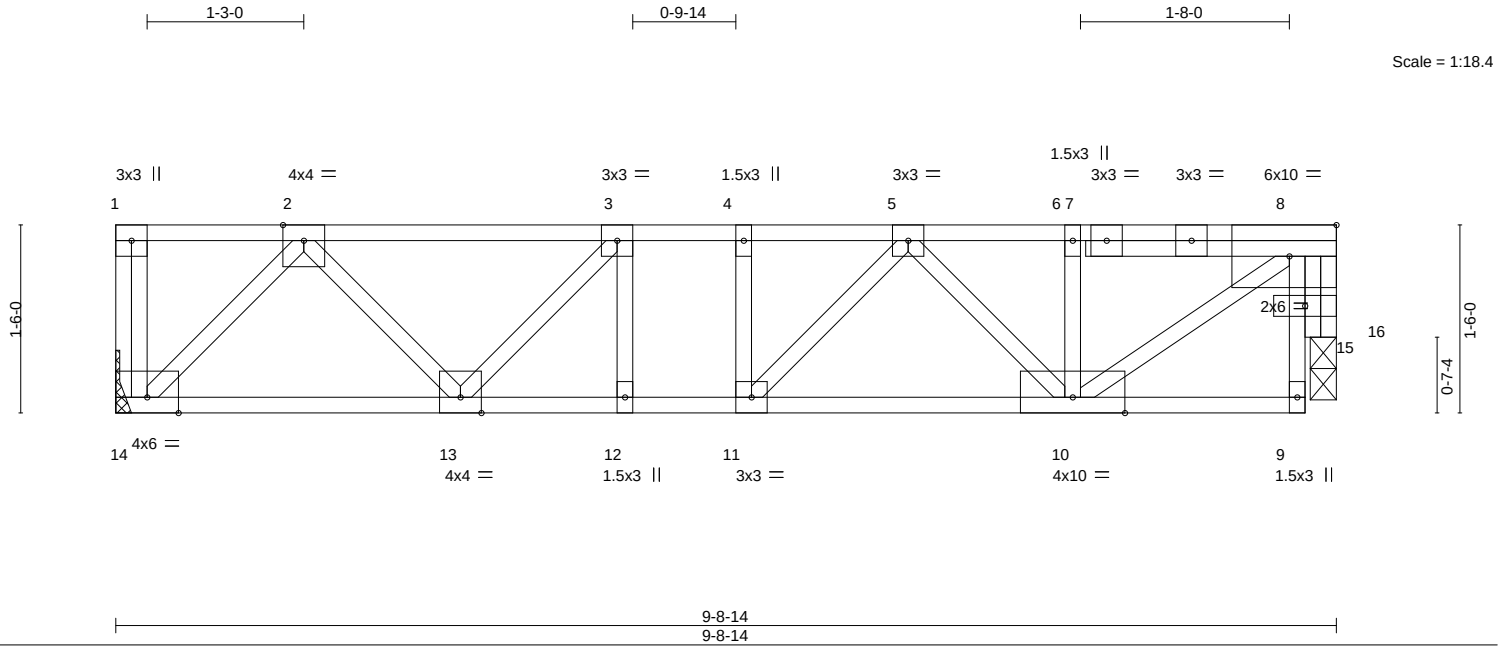

Plate Offsets (X,Y)-- [8:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.09	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.10	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 16=0-2-8
Max Grav 14=1420(LC 1), 16=1371(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1881/0, 3-4=-2451/0, 4-5=-2451/0, 5-6=-1631/0, 6-8=-1639/0
BOT CHORD	13-14=0/1305, 12-13=0/2451, 11-12=0/2451, 10-11=0/2236
WEBS	8-10=0/1814, 6-10=-420/0, 2-14=-1846/0, 2-13=0/855, 3-13=-833/0, 5-10=-875/0, 5-11=-112/639, 8-16=-1411/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C14B	Floor	2	1	I50651194
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:42 2022 Page 1
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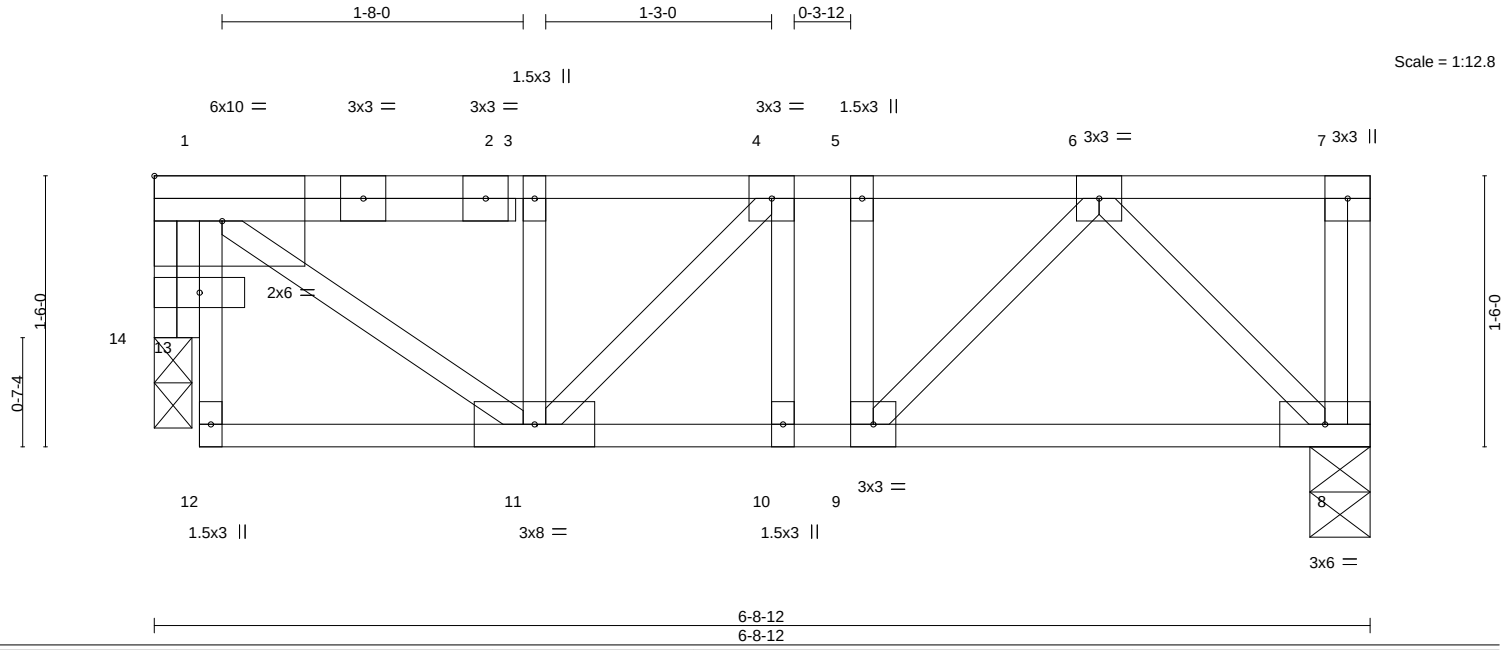

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.02	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.02	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 46 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 14=0-2-8
Max Grav 8=968(LC 1), 14=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1009/0, 3-4=-1002/0, 4-5=-1134/0, 5-6=-1134/0
BOT CHORD	10-11=0/1134, 9-10=0/1134, 8-9=0/799
WEBS	1-11=0/1092, 3-11=-512/0, 4-11=-356/65, 6-8=-1130/0, 6-9=0/523, 5-9=-270/0, 1-14=-949/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C15	Floor	2	1	I50651195
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:43 2022 Page 1
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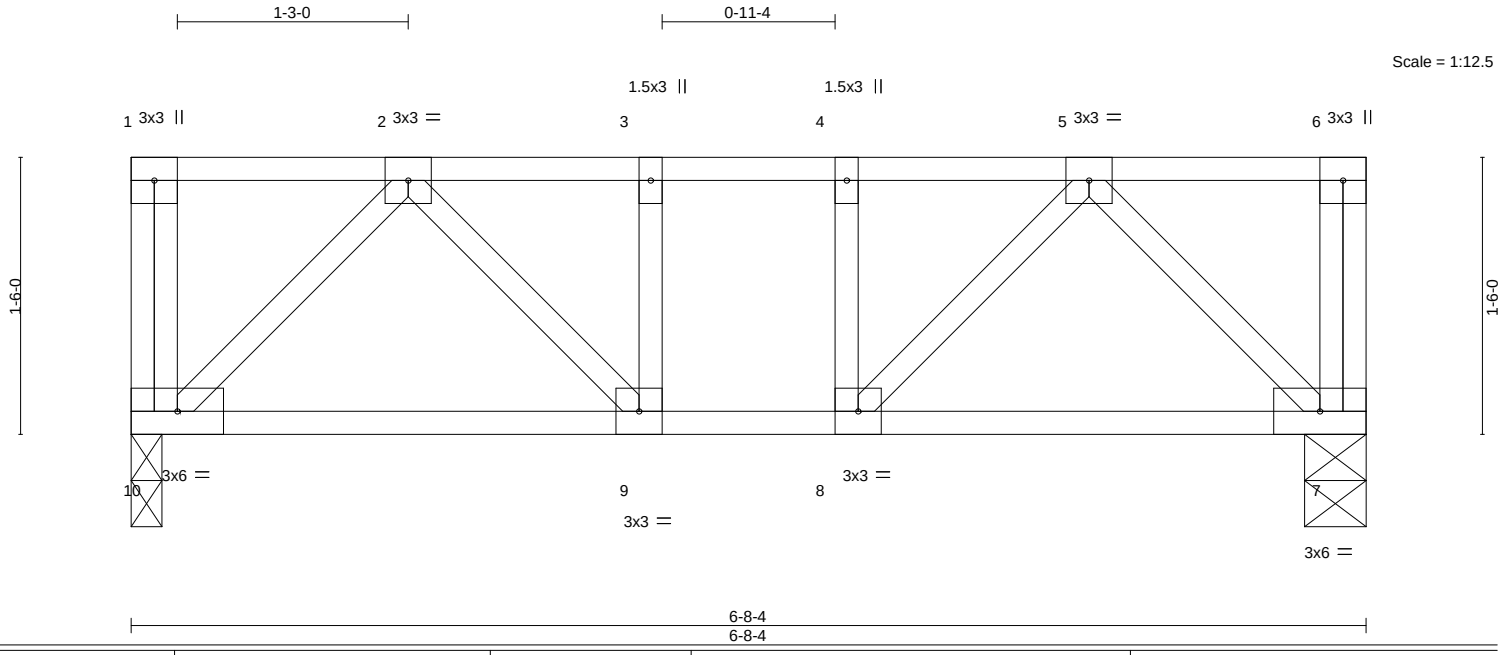

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	5-7=-934/0, 2-10=-934/0, 5-8=0/468, 2-9=0/468, 3-9=-266/0, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C16	Floor	2	1	I50651196
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:44 2022 Page 1
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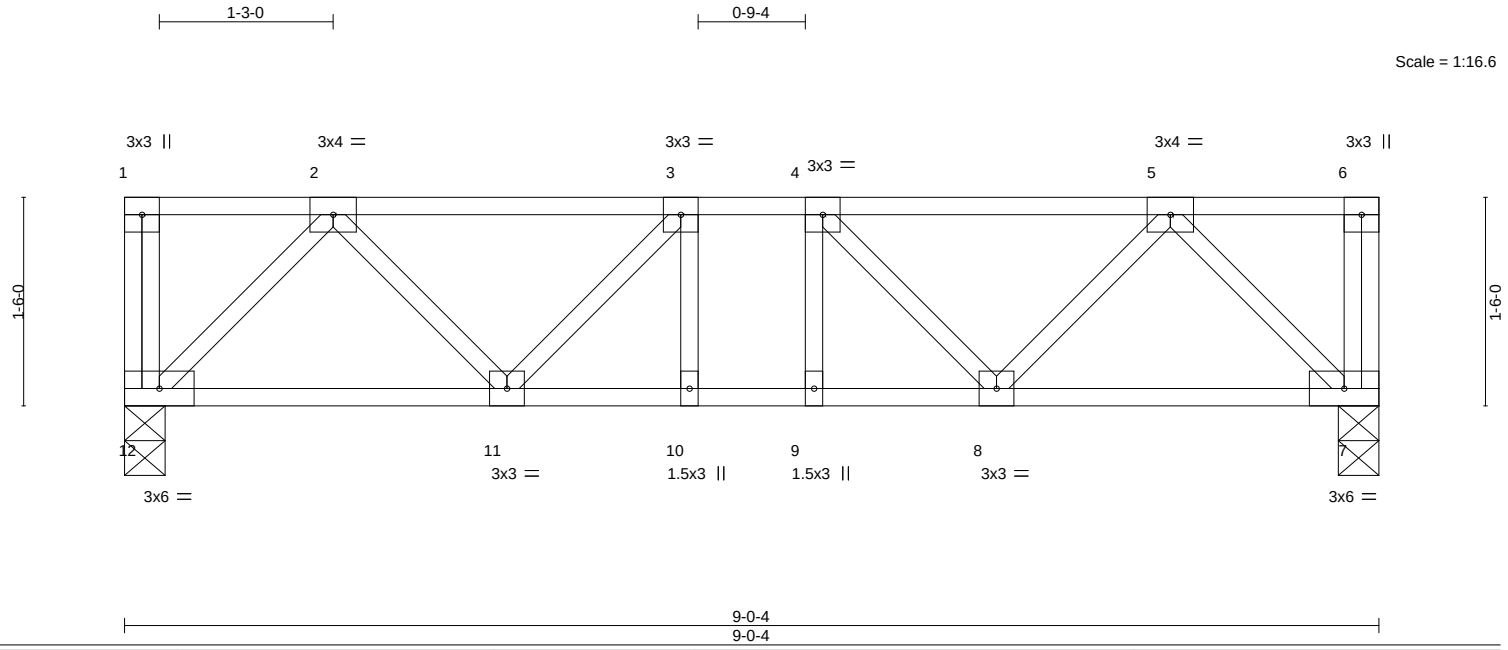

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Grav 12=1096(LC 1), 7=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1400/0, 3-4=-1793/0, 4-5=-1400/0
BOT CHORD	11-12=0/1001, 10-11=0/1793, 9-10=0/1793, 8-9=0/1793, 7-8=0/1001
WEBS	5-7=-1416/0, 2-12=-1416/0, 5-8=0/593, 2-11=0/593, 4-8=-594/0, 3-11=-594/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C17	Floor	12	1	I50651197
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:45 2022 Page 1
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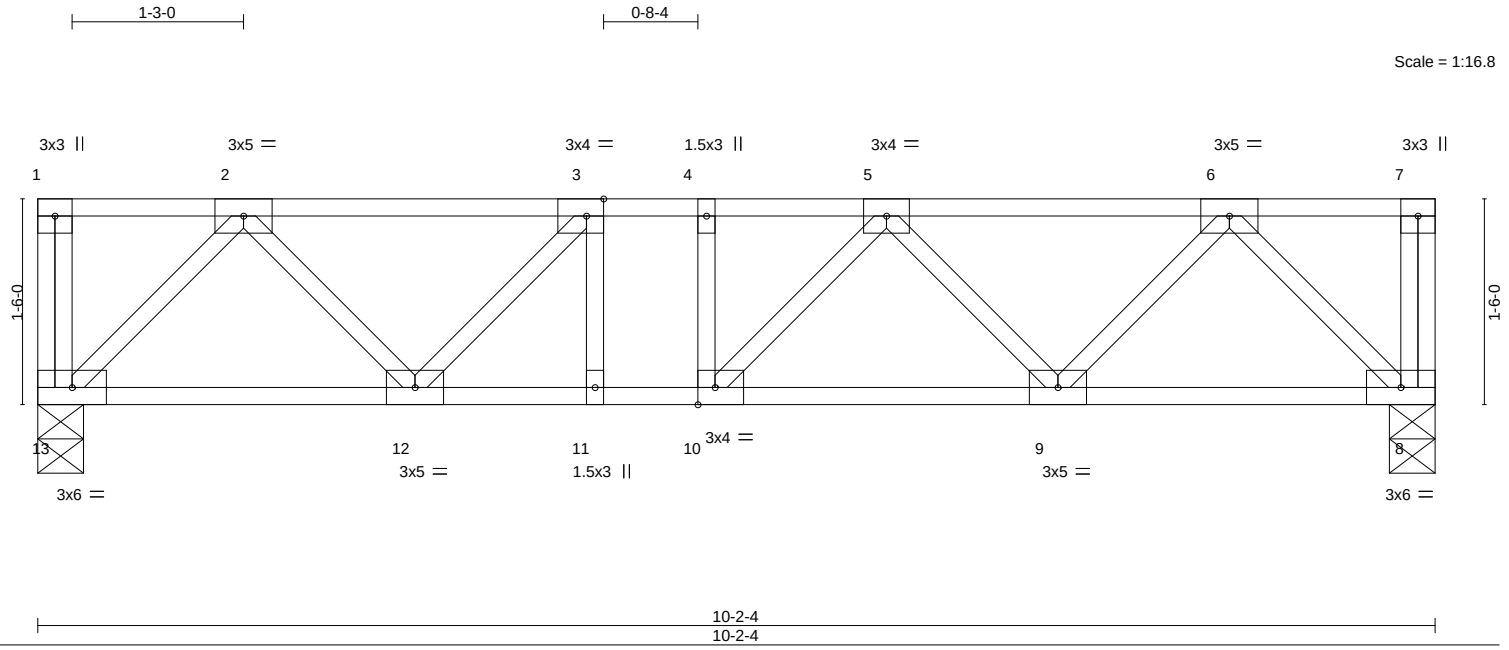

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 8=0-4-0
Max Grav 13=1242(LC 1), 8=1242(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1682/0, 3-4=-2223/0, 4-5=-2223/0, 5-6=-1686/0
BOT CHORD 12-13=0/1143, 11-12=0/2223, 10-11=0/2223, 9-10=0/2205, 8-9=0/1140
WEBS 6-8=-1612/0, 2-13=-1616/0, 6-9=0/812, 2-12=0/802, 5-9=-773/0, 3-12=-783/0, 5-10=-285/420

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C18	Floor	3	1	I50651198
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:45 2022 Page 1
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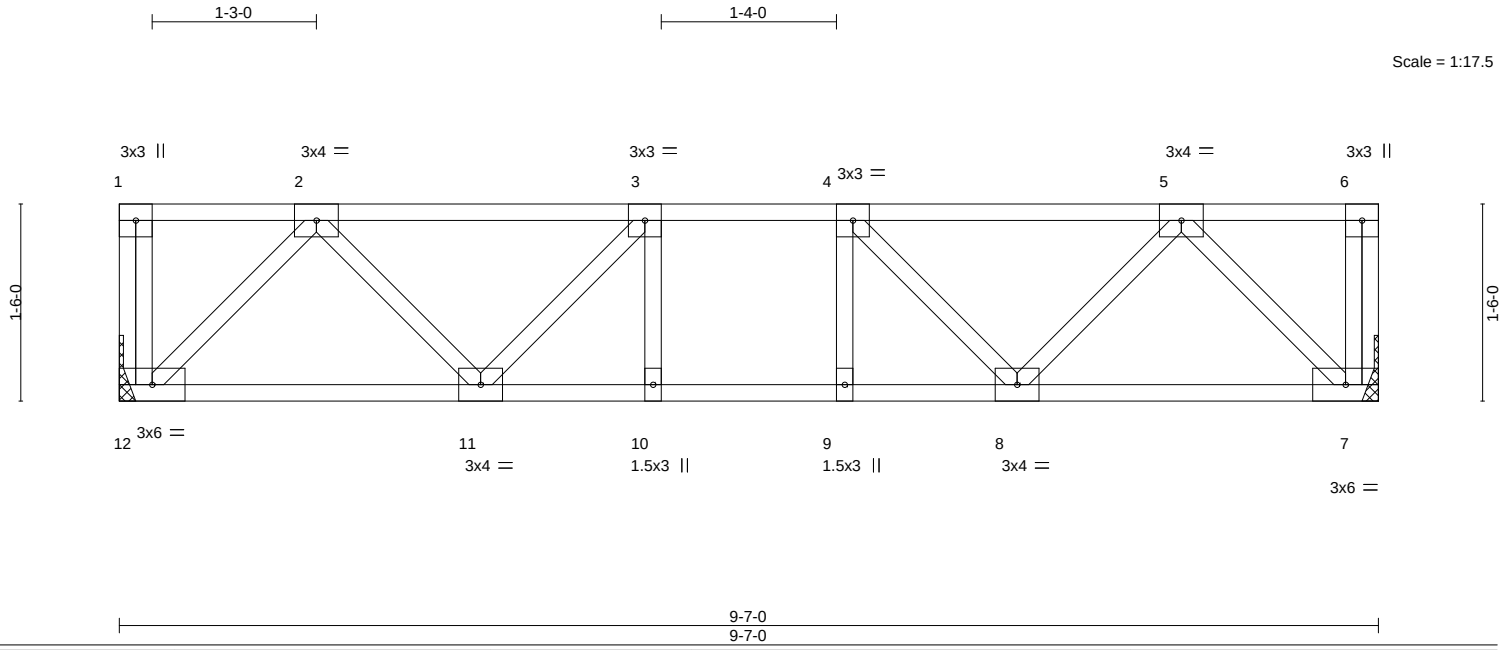

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1167(LC 1), 7=1167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1534/0, 3-4=-1993/0, 4-5=-1534/0
BOT CHORD	11-12=0/1072, 10-11=0/1993, 9-10=0/1993, 8-9=0/1993, 7-8=0/1072
WEBS	5-7=-1516/0, 2-12=-1516/0, 5-8=0/686, 2-11=0/686, 4-8=-721/0, 3-11=-721/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C19	Floor	2	1	I50651199
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:46 2022 Page 1
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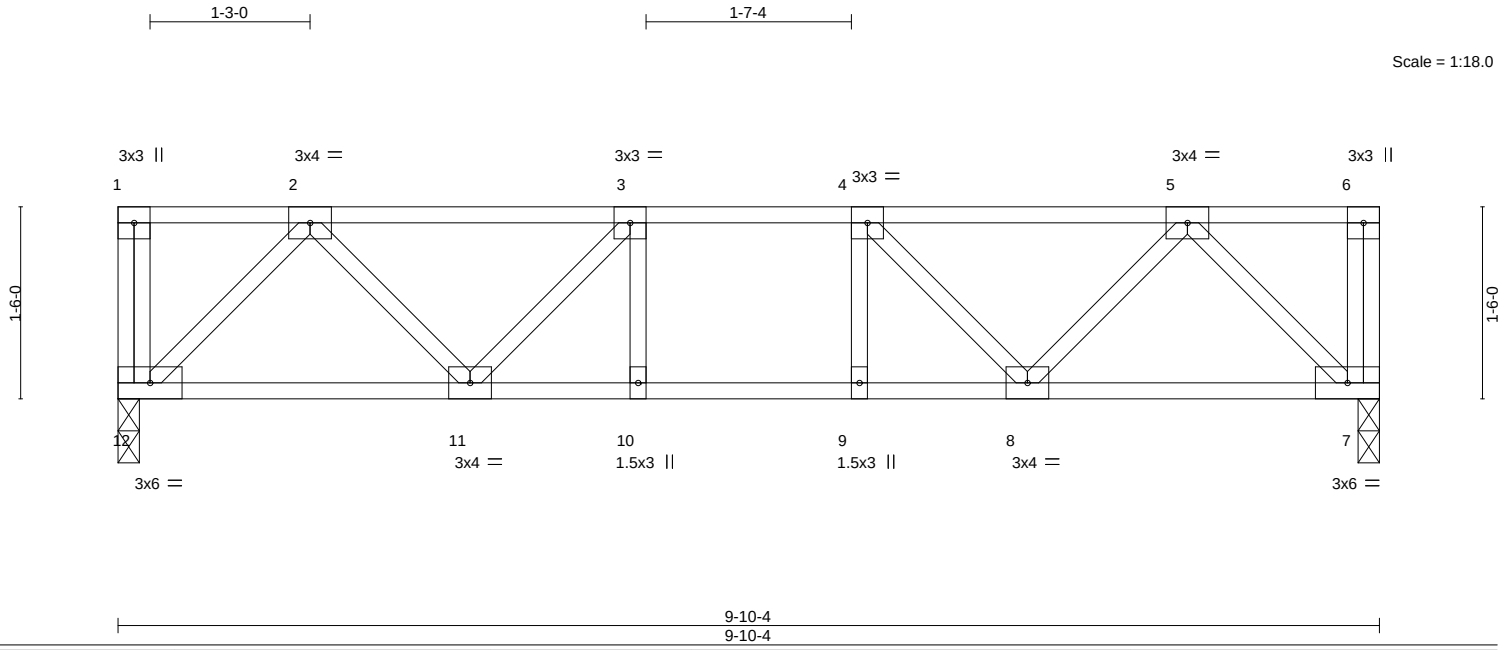

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.10	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.11	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-0
Max Grav 12=1201(LC 1), 7=1201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1599/0, 3-4=-2094/0, 4-5=-1599/0
BOT CHORD	11-12=0/1105, 10-11=0/2094, 9-10=0/2094, 8-9=0/2094, 7-8=0/1105
WEBS	5-7=-1562/0, 2-12=-1562/0, 5-8=0/735, 2-11=0/735, 4-8=-788/0, 3-11=-788/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C20	Floor	4	1	I50651200
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:48 2022 Page 1
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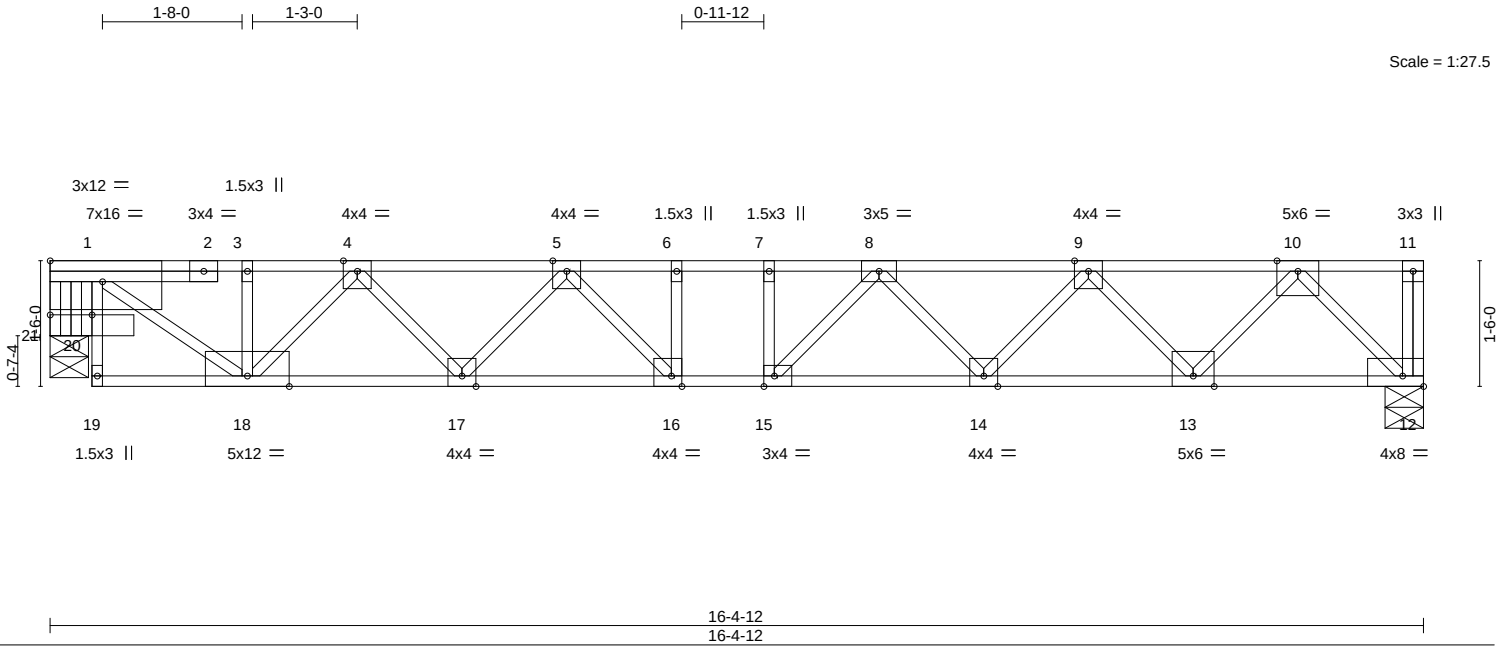

Plate Offsets (X,Y)-- [1:Edge,0-3-0], [12:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge], [20:0-6-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.27	15	>717	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.33	14-15	>573	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-19,1-18: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 21=0-5-8
Max Grav 12=1984(LC 1), 21=1943(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-2490/0, 3-4=-2482/0, 4-5=-4589/0, 5-6=-5685/0, 6-7=-5685/0, 7-8=-5685/0, 8-9=-4949/0, 9-10=-3103/0
BOT CHORD	17-18=0/3806, 16-17=0/5359, 15-16=0/5685, 14-15=0/5550, 13-14=0/4314, 12-13=0/1871
WEBS	1-18=0/2797, 3-18=-261/0, 4-18=-1918/0, 4-17=0/1164, 5-17=-1144/0, 5-16=-244/993, 6-16=-478/25, 10-12=-2646/0, 10-13=0/1832, 9-13=-1800/0, 9-14=0/944, 8-14=-894/0, 8-15=-412/811, 7-15=-402/91, 1-21=-1997/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C21	Floor	5	1	I50651201
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:49 2022 Page 1
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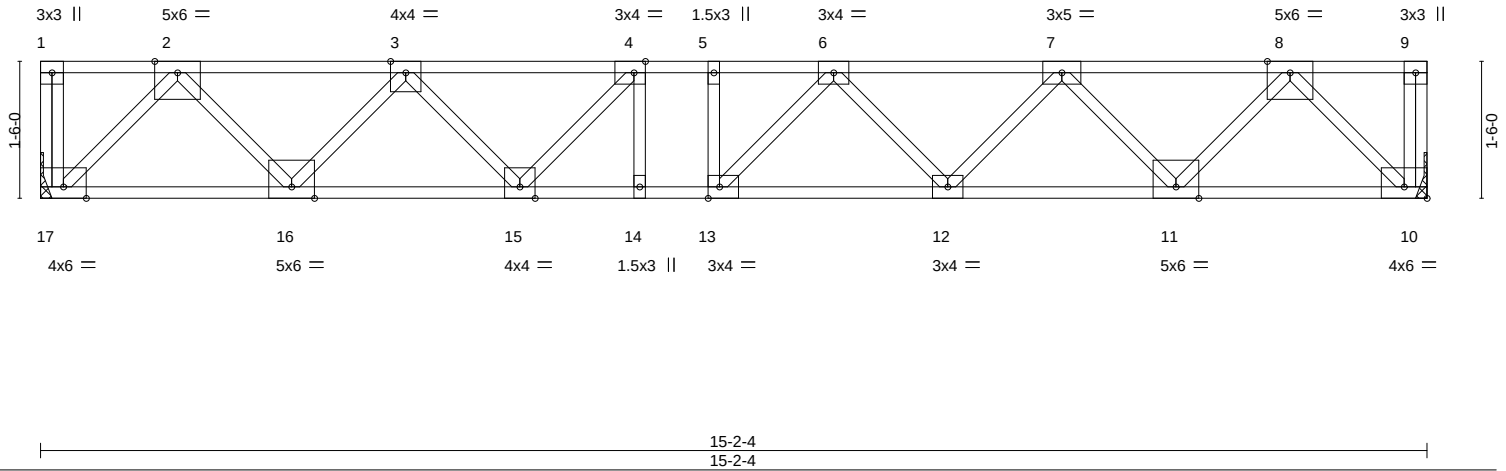

15-2-4
15-2-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:Edge,0-1-8], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.22	13	>818	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.28	12-13	>650	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=Mechanical
Max Grav 17=1867(LC 1), 10=1867(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2883/0, 3-4=-4505/0, 4-5=-5039/0, 5-6=-5039/0, 6-7=-4512/0, 7-8=-2881/0
BOT CHORD 16-17=0/1755, 15-16=0/3985, 14-15=0/5039, 13-14=0/5039, 12-13=0/5014, 11-12=0/3984, 10-11=0/1755
WEBS 8-10=-2482/0, 2-17=-2481/0, 8-11=0/1674, 2-16=0/1677, 7-11=-1639/0, 3-16=-1639/0, 7-12=0/784, 3-15=0/846, 6-12=-748/0, 4-15=-996/0, 6-13=-476/631, 4-14=-310/352

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C22	Floor	3	1	I50651202
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:49 2022 Page 1
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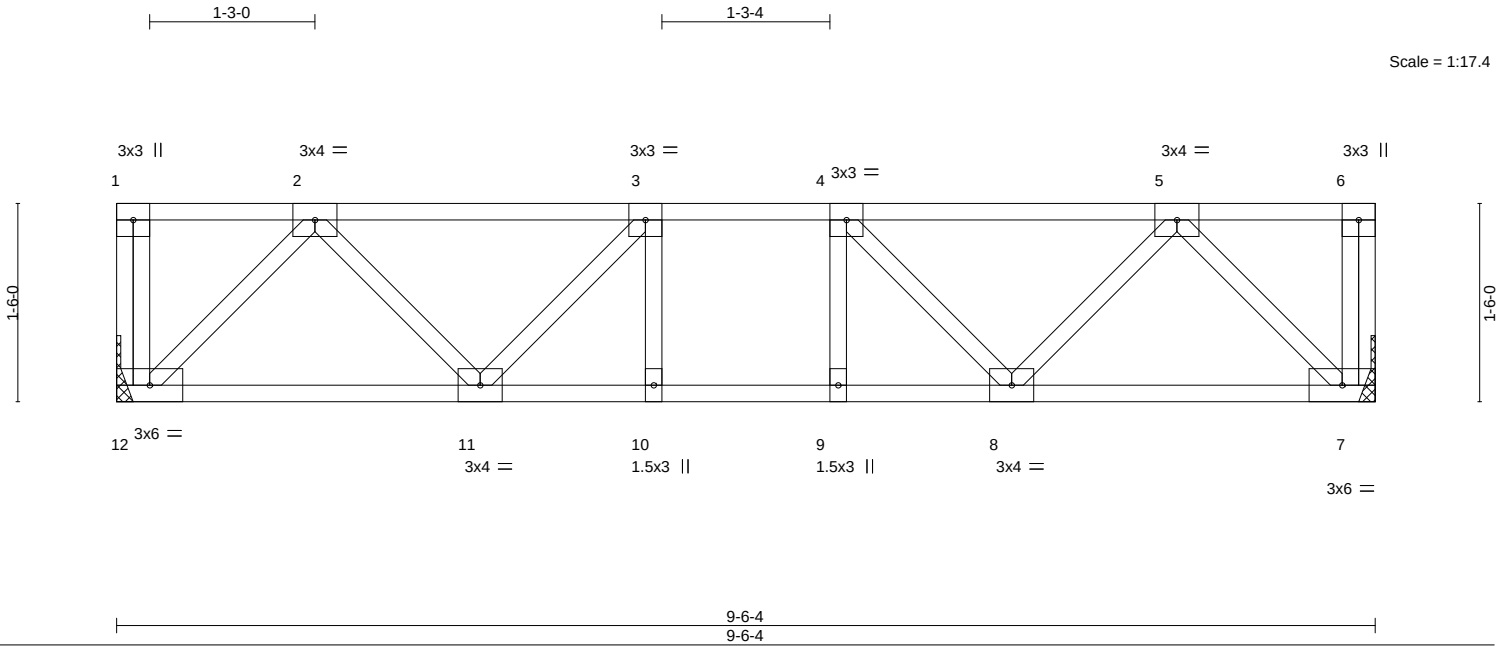

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1159(LC 1), 7=1159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1519/0, 3-4=-1970/0, 4-5=-1519/0
BOT CHORD	11-12=0/1064, 10-11=0/1970, 9-10=0/1970, 8-9=0/1970, 7-8=0/1064
WEBS	5-7=-1505/0, 2-12=-1505/0, 5-8=0/675, 2-11=0/675, 4-8=-707/0, 3-11=-707/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C23	Floor	4	1	I50651203
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:50 2022 Page 1
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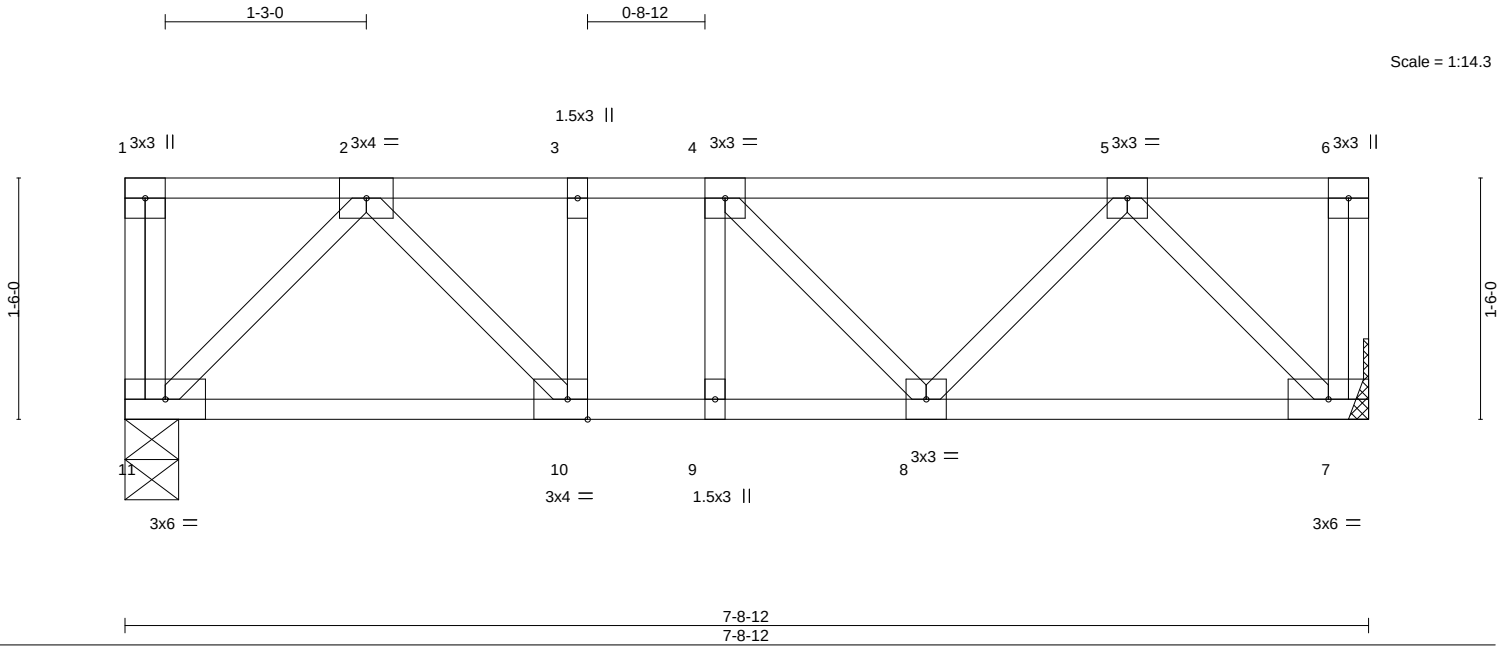

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.06	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=Mechanical
Max Grav 11=935(LC 1), 7=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1255/0, 3-4=-1255/0, 4-5=-1093/0
BOT CHORD 10-11=0/799, 9-10=0/1255, 8-9=0/1255, 7-8=0/853
WEBS 5-7=-1207/0, 2-11=-1129/0, 5-8=0/356, 2-10=0/691, 4-8=-315/0, 3-10=-302/0, 4-9=-277/34

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C24	Floor	7	1	I50651204
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:51 2022 Page 1
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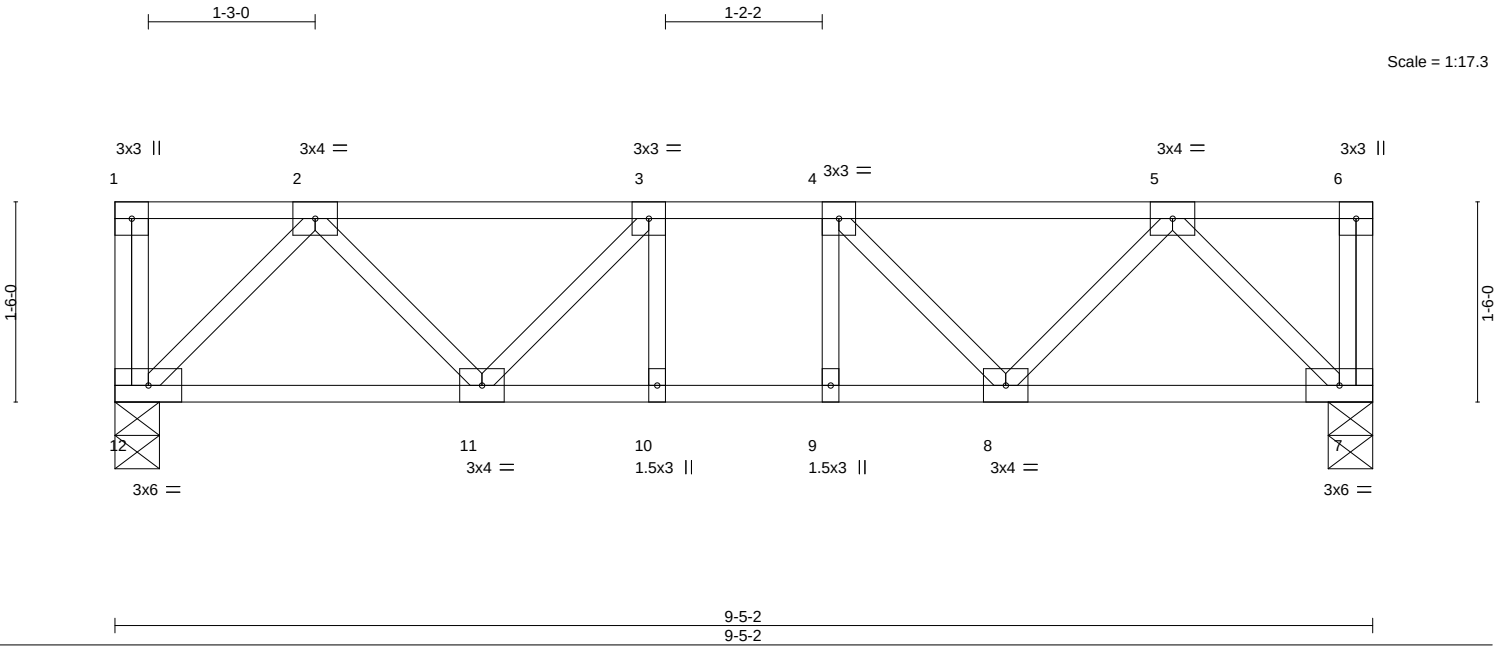

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.08	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-4-0
Max Grav 12=1147(LC 1), 7=1147(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1496/0, 3-4=-1936/0, 4-5=-1496/0
BOT CHORD	11-12=0/1053, 10-11=0/1936, 9-10=0/1936, 8-9=0/1936, 7-8=0/1053
WEBS	5-7=-1489/0, 2-12=-1489/0, 5-8=0/658, 2-11=0/658, 4-8=-685/0, 3-11=-685/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	C25	Floor	11	1	I50651205
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:51 2022 Page 1
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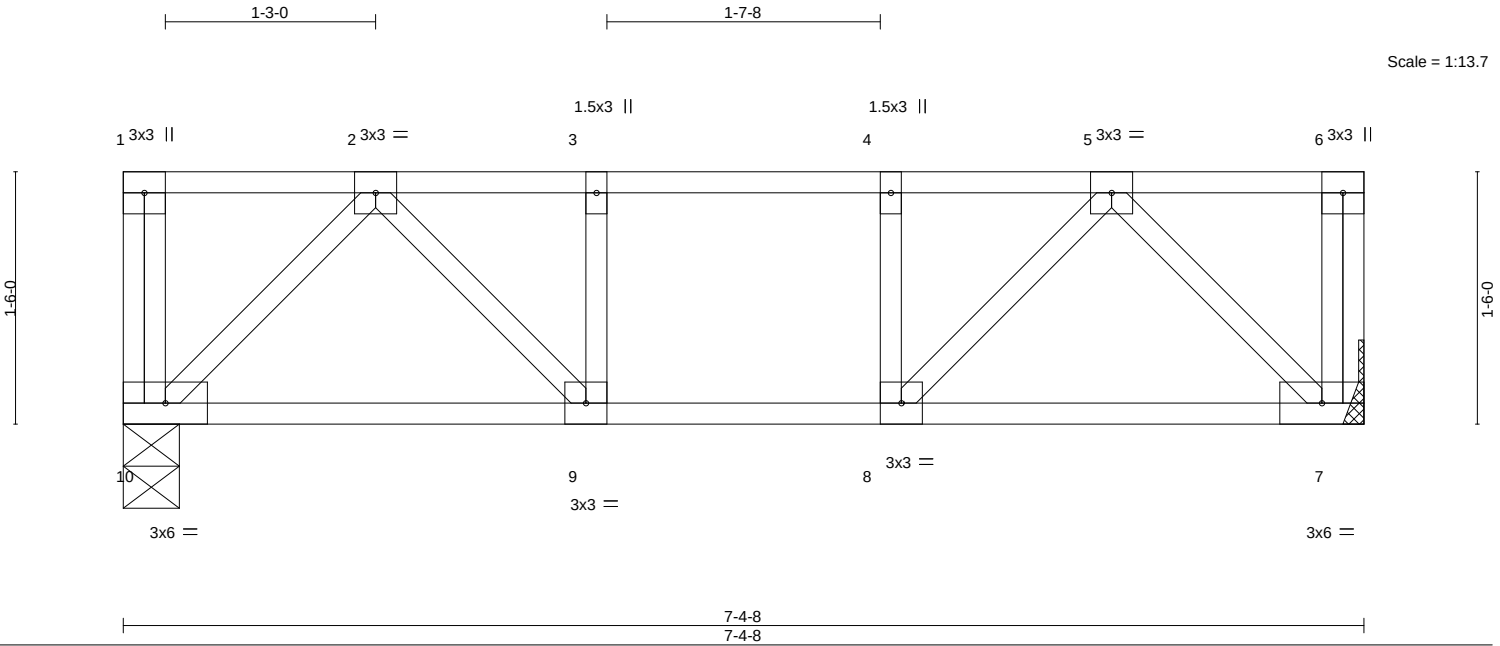

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=891(LC 1), 7=891(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1120/0, 3-4=-1120/0, 4-5=-1120/0
BOT CHORD 9-10=0/742, 8-9=0/1120, 7-8=0/742
WEBS 5-7=-1049/0, 2-10=-1049/0, 5-8=0/636, 2-9=0/636, 3-9=-384/0, 4-8=-384/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F1	Floor	2	1	I50651206
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:25:57 2022 Page 1
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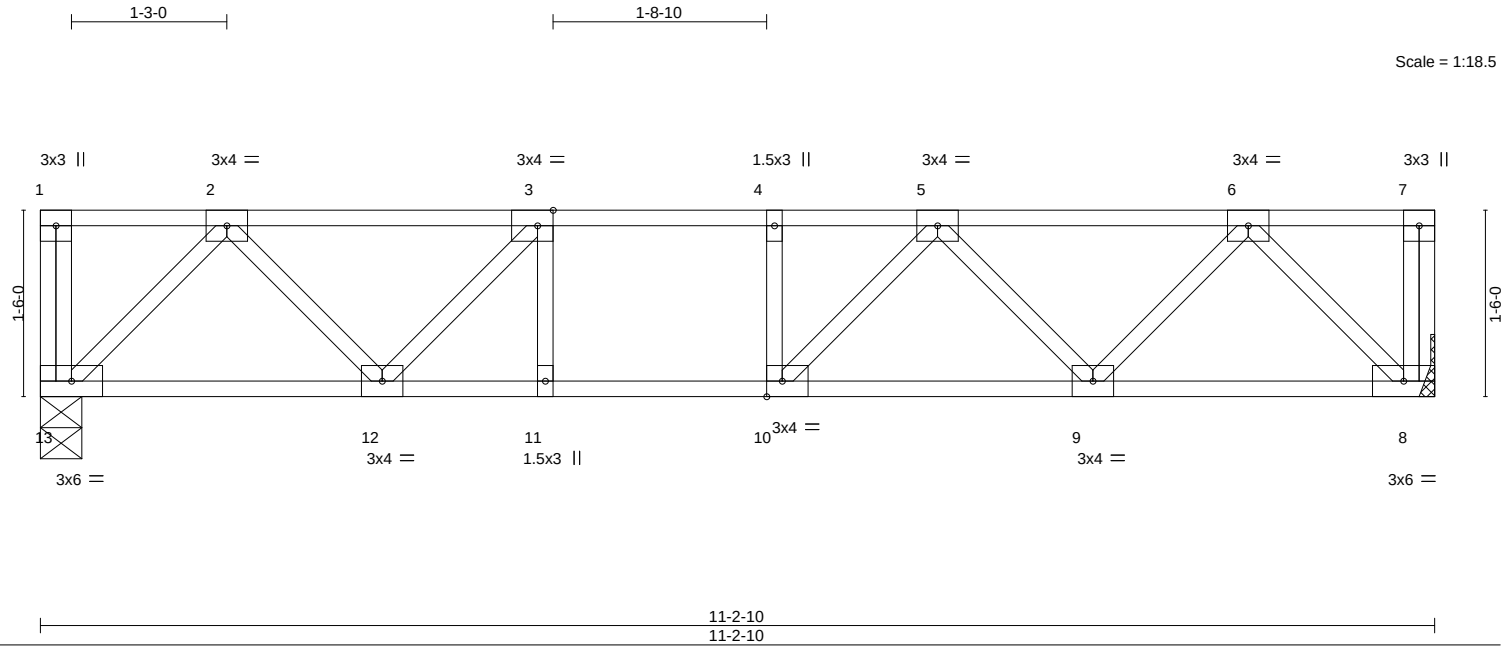

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.11	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 8=Mechanical
Max Grav 13=713(LC 1), 8=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1009/0, 3-4=-1387/0, 4-5=-1387/0, 5-6=-1012/0
BOT CHORD 12-13=0/650, 11-12=0/1387, 10-11=0/1387, 9-10=0/1328, 8-9=0/658
WEBS 6-8=-930/0, 2-13=-919/0, 6-9=0/527, 2-12=0/534, 5-9=-470/0, 3-12=-560/0, 5-10=-52/274

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F1G	Floor Girder	1	1	I50651207
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:23 2022 Page 1
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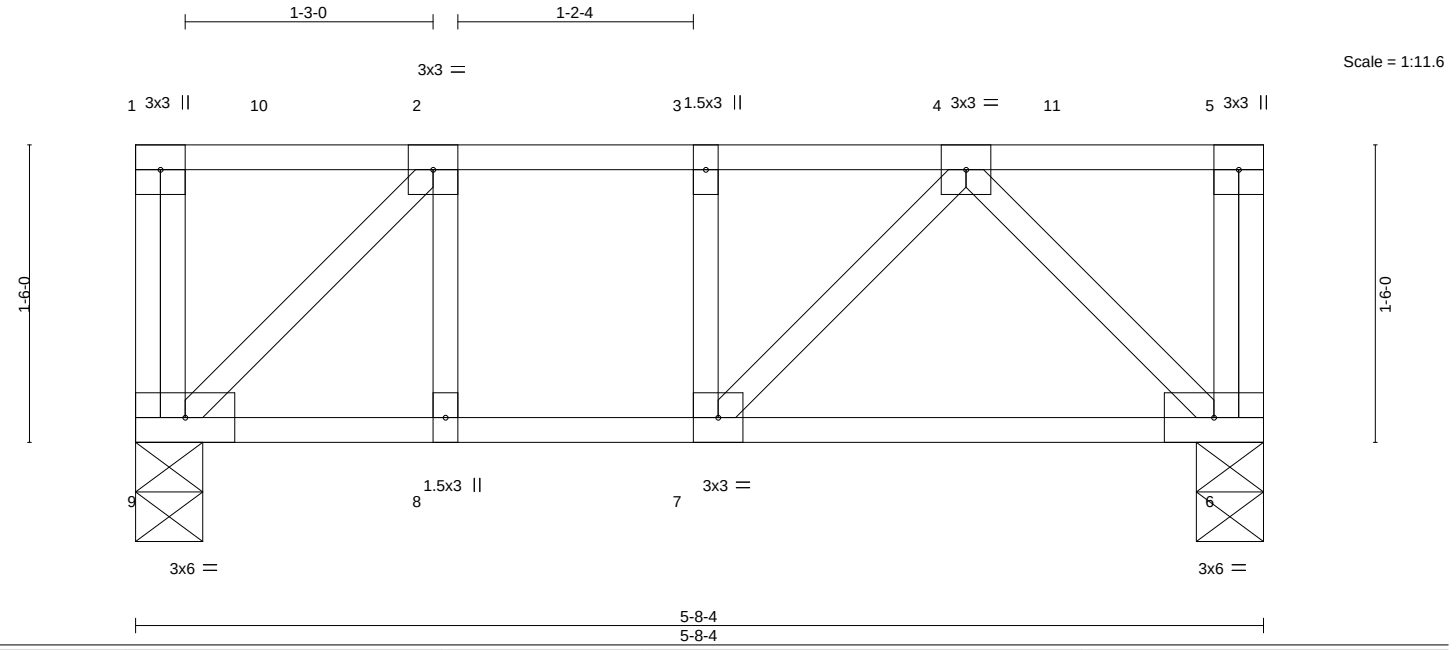

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-1, 6=0-4-1
Max Grav 9=834(LC 1), 6=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-721/0, 3-4=-721/0
BOT CHORD 8-9=0/721, 7-8=0/721, 6-7=0/632
WEBS 4-6=-893/0, 2-9=-998/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 3=-299 10=-322 11=-310

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F2	Floor	9	1	I50651208
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:28 2022 Page 1
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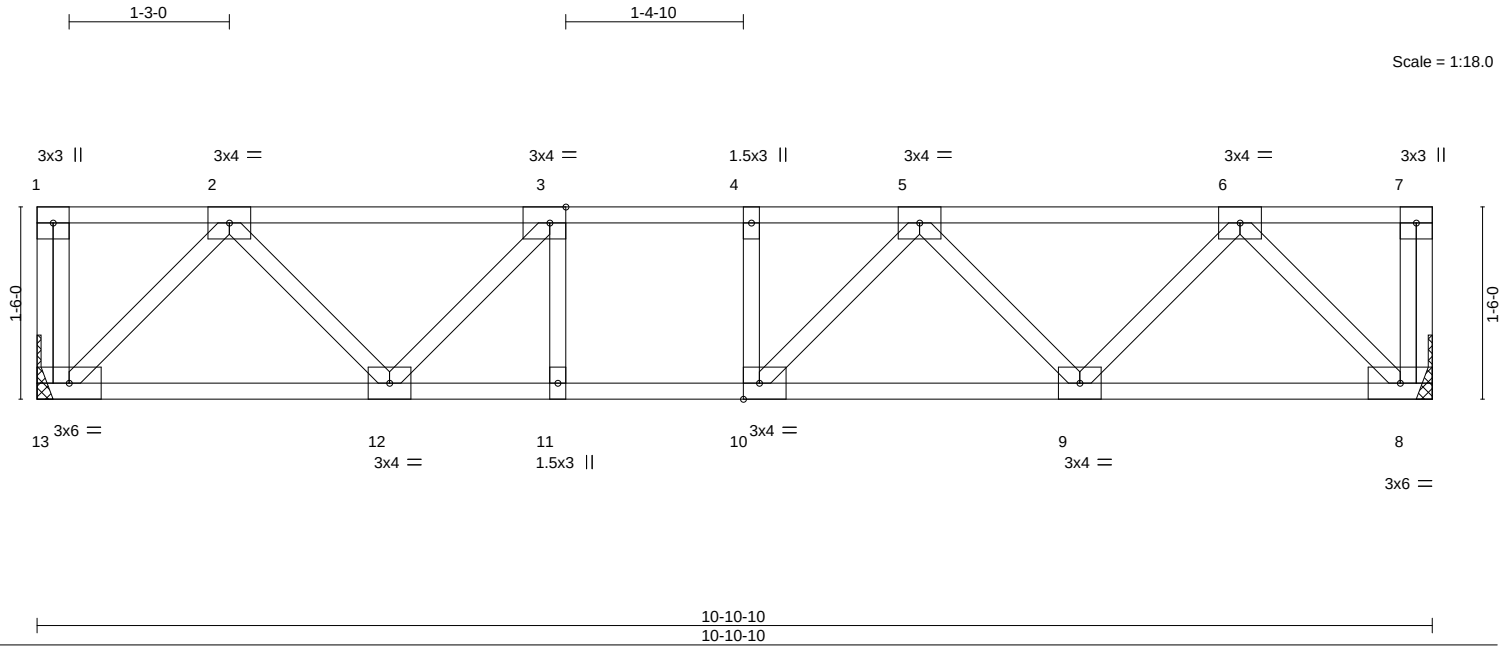

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=Mechanical
Max Grav 13=691(LC 1), 8=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-966/0, 3-4=-1310/0, 4-5=-1310/0, 5-6=-970/0
BOT CHORD 12-13=0/631, 11-12=0/1310, 10-11=0/1310, 9-10=0/1269, 8-9=0/636
WEBS 6-8=-899/0, 2-13=-893/0, 6-9=0/497, 2-12=0/498, 5-9=-445/0, 3-12=-505/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F2G	Floor Girder	1	1	I50651209
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:45 2022 Page 1
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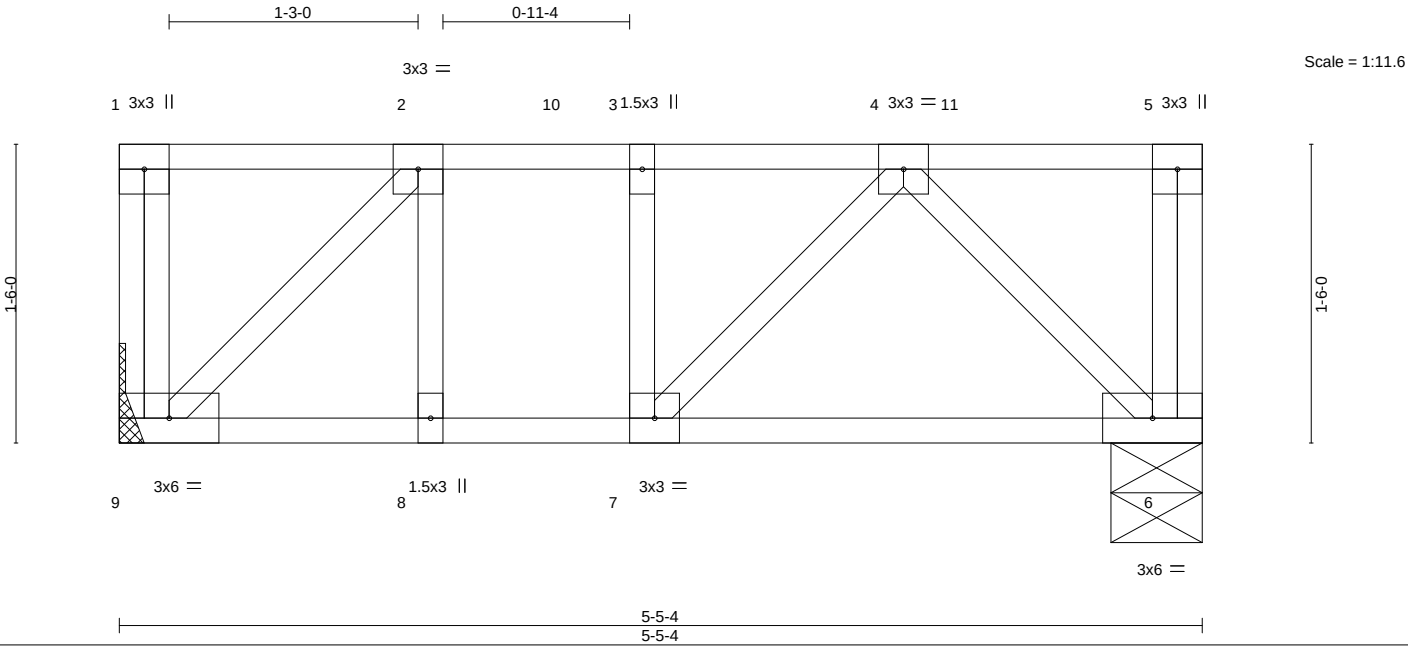

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 35 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 6=0-5-8
Max Grav 9=920(LC 1), 6=703(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-373/0, 2-3=-609/0, 3-4=-609/0
BOT CHORD 8-9=0/609, 7-8=0/609, 6-7=0/568
WEBS 4-6=-803/0, 2-9=-843/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-349 10=-299 11=-299

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F3	Floor	3	1	I50651210
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:46 2022 Page 1
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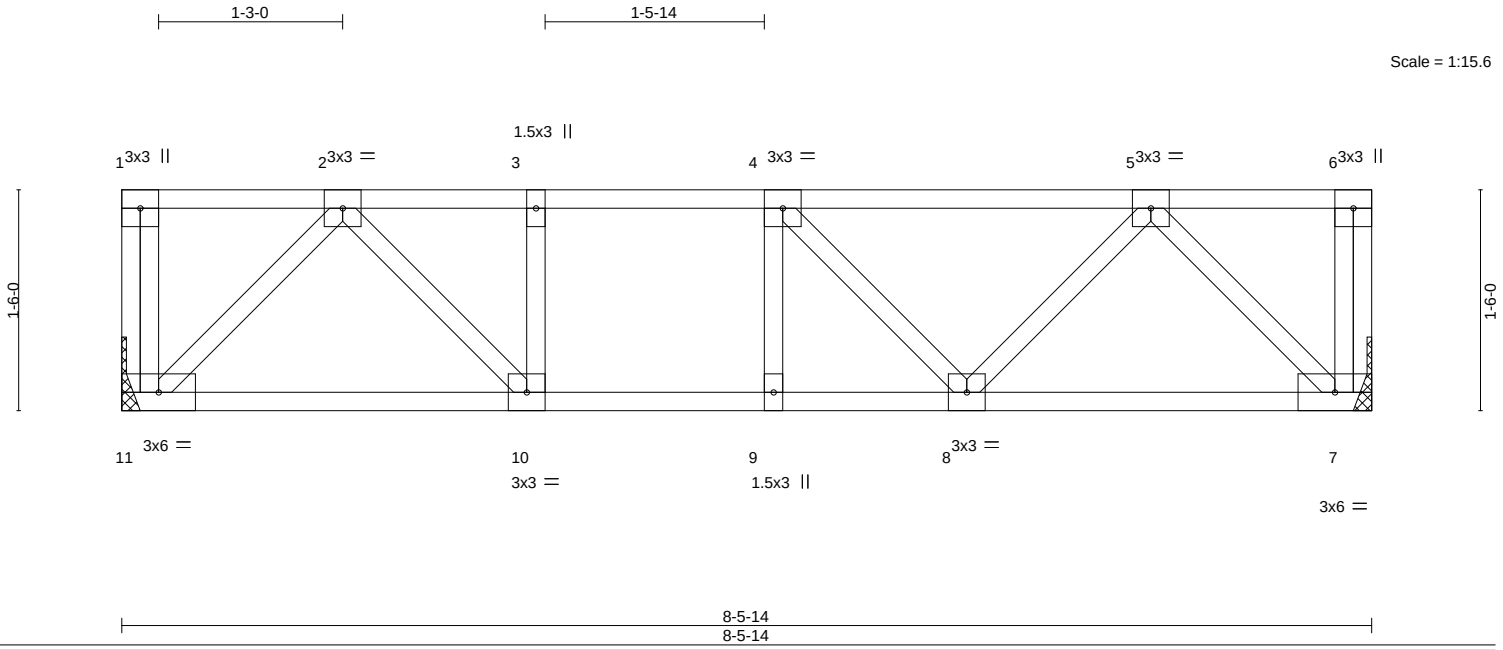

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.07	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Grav 11=536(LC 1), 7=536(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-776/0, 3-4=-776/0, 4-5=-664/0
BOT CHORD	10-11=0/462, 9-10=0/776, 8-9=0/776, 7-8=0/493
WEBS	5-7=-697/0, 2-11=-653/0, 5-8=0/255, 2-10=0/474

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F3G	FLOOR GIRDER	1	1	I50651211
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:06 2022 Page 1
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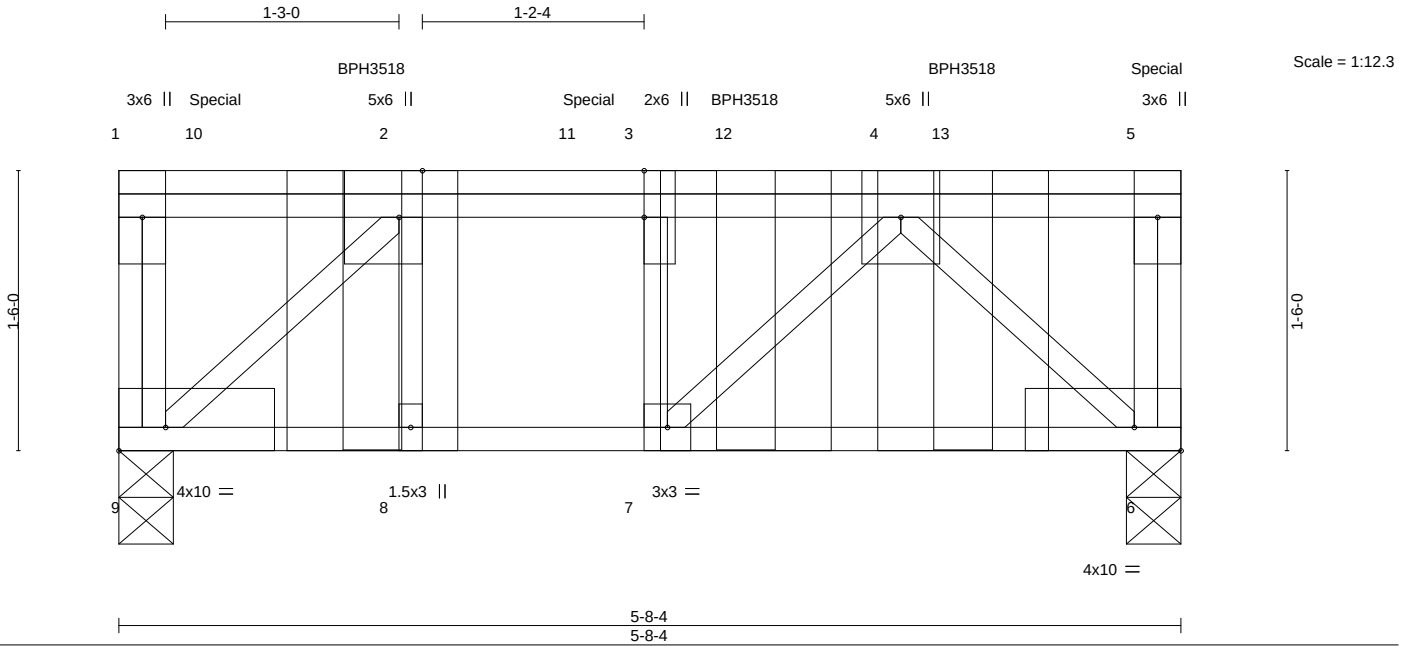

Scale = 1:12.3

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [6:Edge,0-1-8], [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.07	6-7	>939	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	6	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=2735(LC 3), 6=2649(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-615/0, 5-6=-615/0, 2-3=-2345/0, 3-4=-2345/0
BOT CHORD 8-9=0/2345, 7-8=0/2345, 6-7=0/2119
WEBS 4-6=-2929/0, 2-9=-3175/0, 4-7=0/341, 3-7=-287/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-5 from the left end to 3-4-5 to connect truss(es) to front face of top chord.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 4-6-4 from the left end to connect truss(es) to back face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1252 lb down at 0-6-4, and 1266 lb down at 2-6-4, and 375 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 5=-327(F) 2=-279(F) 10=-1196(B) 11=-1241(B) 12=-279(F) 13=-1351(B)

March 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F4	Floor	9	1	I50651212
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:07 2022 Page 1
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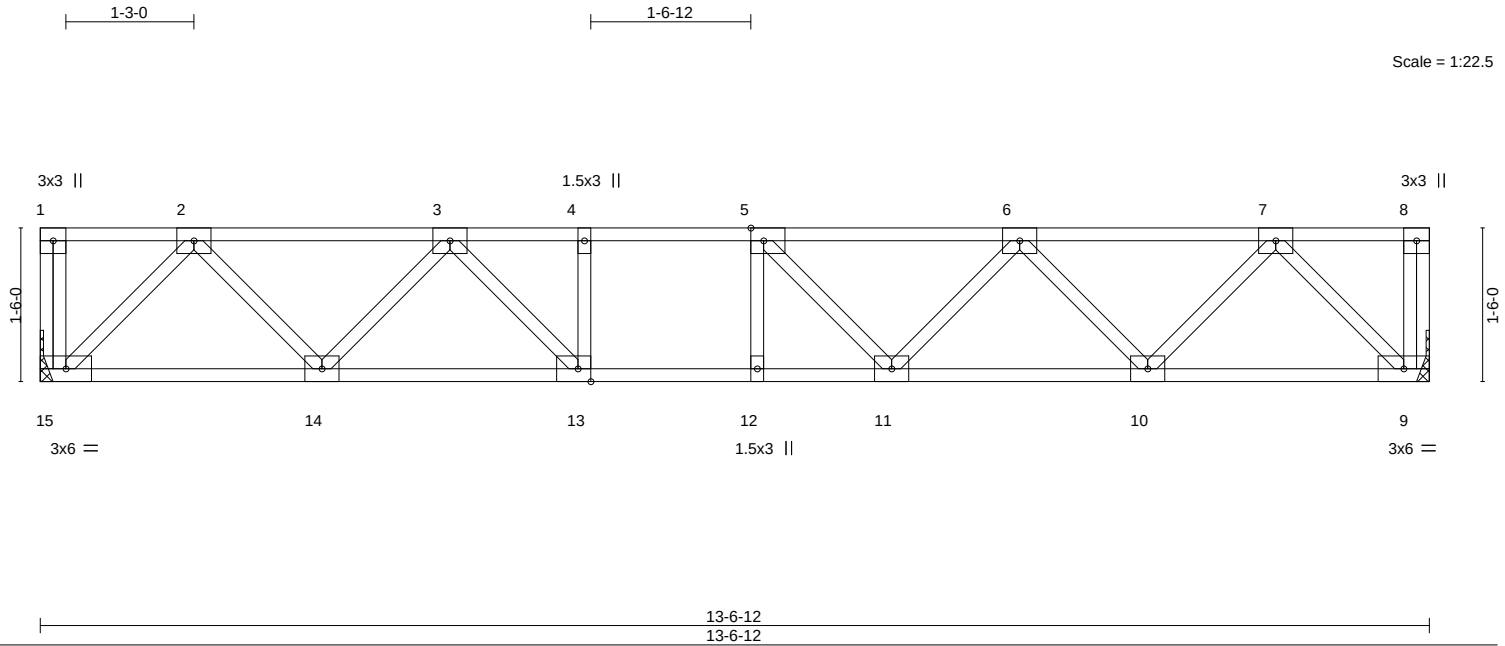

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 75 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=Mechanical
Max Grav 15=865(LC 1), 9=865(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1288/0, 3-4=-2060/0, 4-5=-2060/0, 5-6=-1950/0, 6-7=-1303/0
BOT CHORD 14-15=0/807, 13-14=0/1762, 12-13=0/2060, 11-12=0/2060, 10-11=0/1783, 9-10=0/801
WEBS 7-9=-1133/0, 2-15=-1142/0, 7-10=0/746, 2-14=0/714, 6-10=-714/0, 3-14=-705/0, 6-11=0/318, 3-13=0/575, 5-11=-323/20, 4-13=-268/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F4G	Floor Girder	1	1	I50651213
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:19 2022 Page 1
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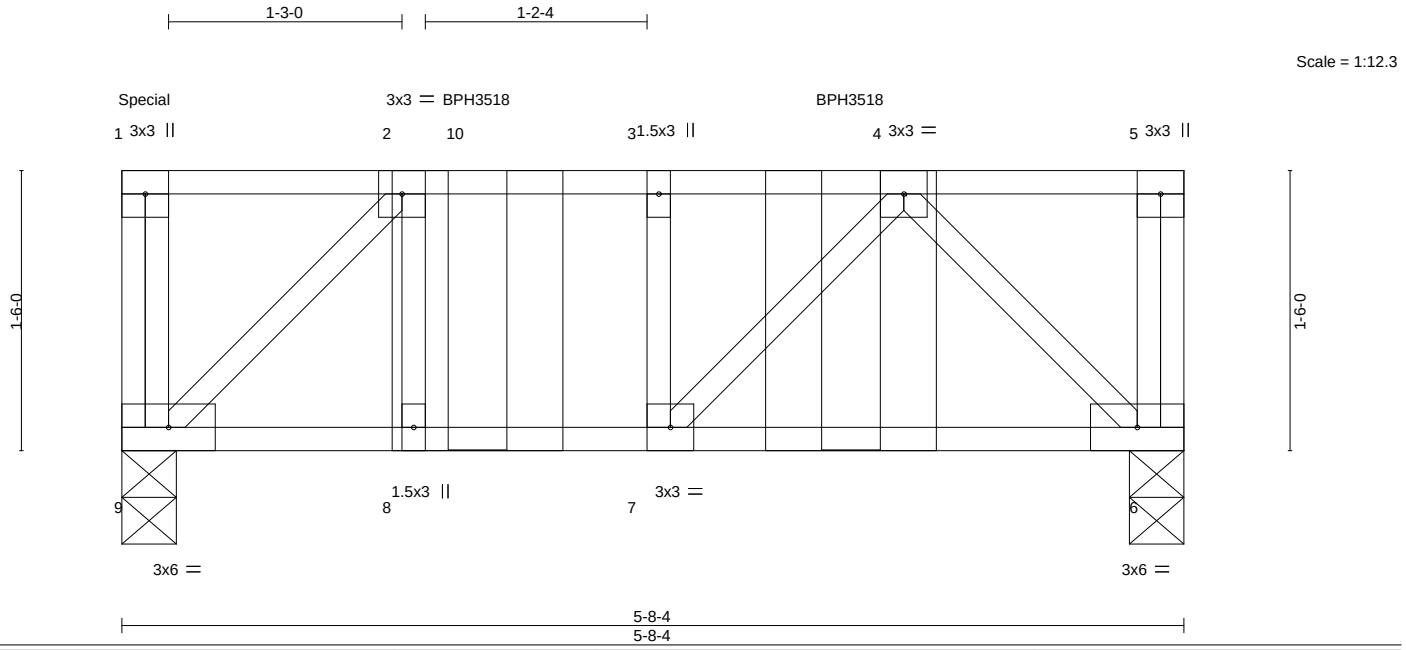

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.05	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9,5-6: 2x4 SP No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=882(LC 1), 6=608(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-9=-345/0, 2-3=-589/0, 3-4=-589/0
BOT CHORD	8-9=0/589, 7-8=0/589, 6-7=0/524
WEBS	4-6=-741/0, 2-9=-815/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-14 from the left end to 3-10-14 to connect truss(es) to front face of top chord.
5) Fill all nail holes where hanger is in contact with lumber.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 6-9=-10, 1-5=-120
   Concentrated Loads (lb)
   Vert: 1=-310(F) 4=-237(F) 10=-237(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F5	Floor	3	1	I50651214
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:19 2022 Page 1
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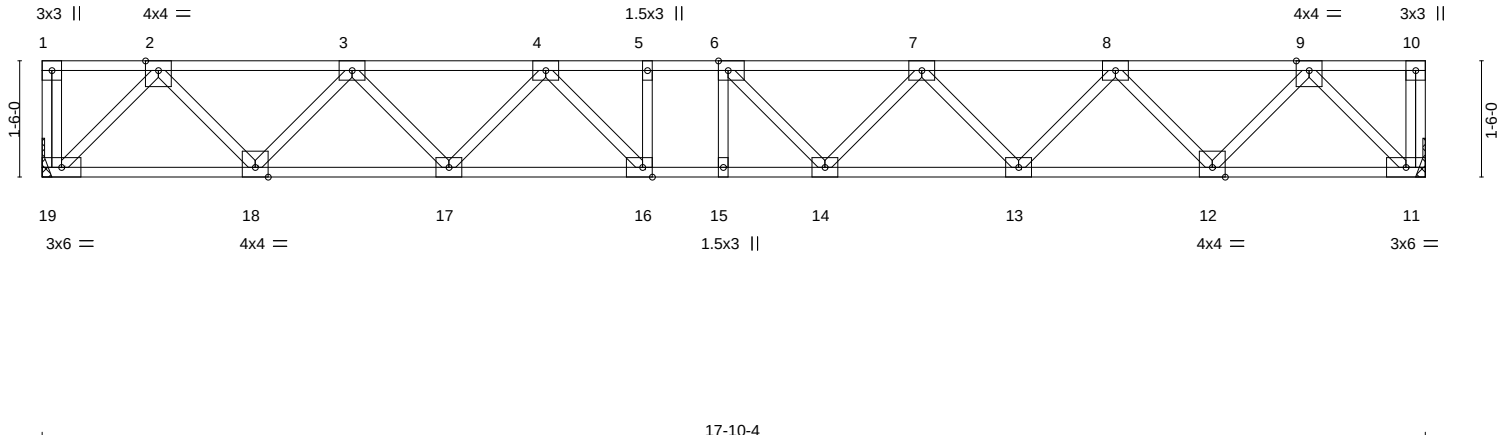

17-10-4
17-10-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.19	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.31	14-15	>691	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 11=Mechanical
Max Grav 19=1144(LC 1), 11=1144(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1834/0, 3-4=-2985/0, 4-5=-3640/0, 5-6=-3640/0, 6-7=-3560/0, 7-8=-2998/0, 8-9=-1831/0
BOT CHORD 18-19=0/1083, 17-18=0/2556, 16-17=0/3409, 15-16=0/3640, 14-15=0/3640, 13-14=0/3427, 12-13=0/2551, 11-12=0/1084
WEBS 9-11=-1533/0, 2-19=-1531/0, 9-12=0/1110, 2-18=0/1117, 8-12=-1070/0, 3-18=-1073/0, 8-13=0/665, 3-17=0/639, 7-13=-638/0, 4-17=-630/0, 7-14=0/331, 4-16=-13/543, 6-14=-344/137

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F5G	Floor Girder	1	1	I50651215
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:27 2022 Page 1
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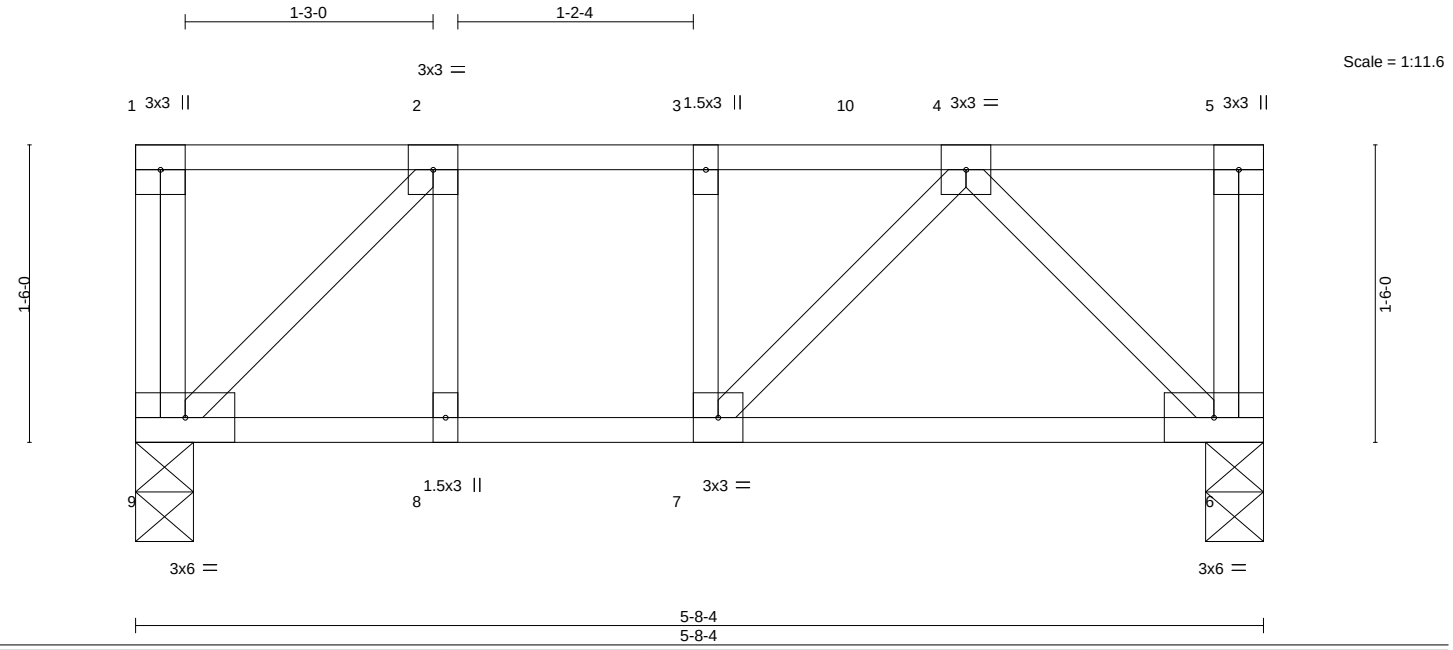

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.05	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=653(LC 1), 6=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-656/0, 3-4=-656/0
BOT CHORD 8-9=0/656, 7-8=0/656, 6-7=0/549
WEBS 4-6=-777/0, 2-9=-908/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-278 10=-278

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F6	Floor	3	1	I50651216
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:27 2022 Page 1
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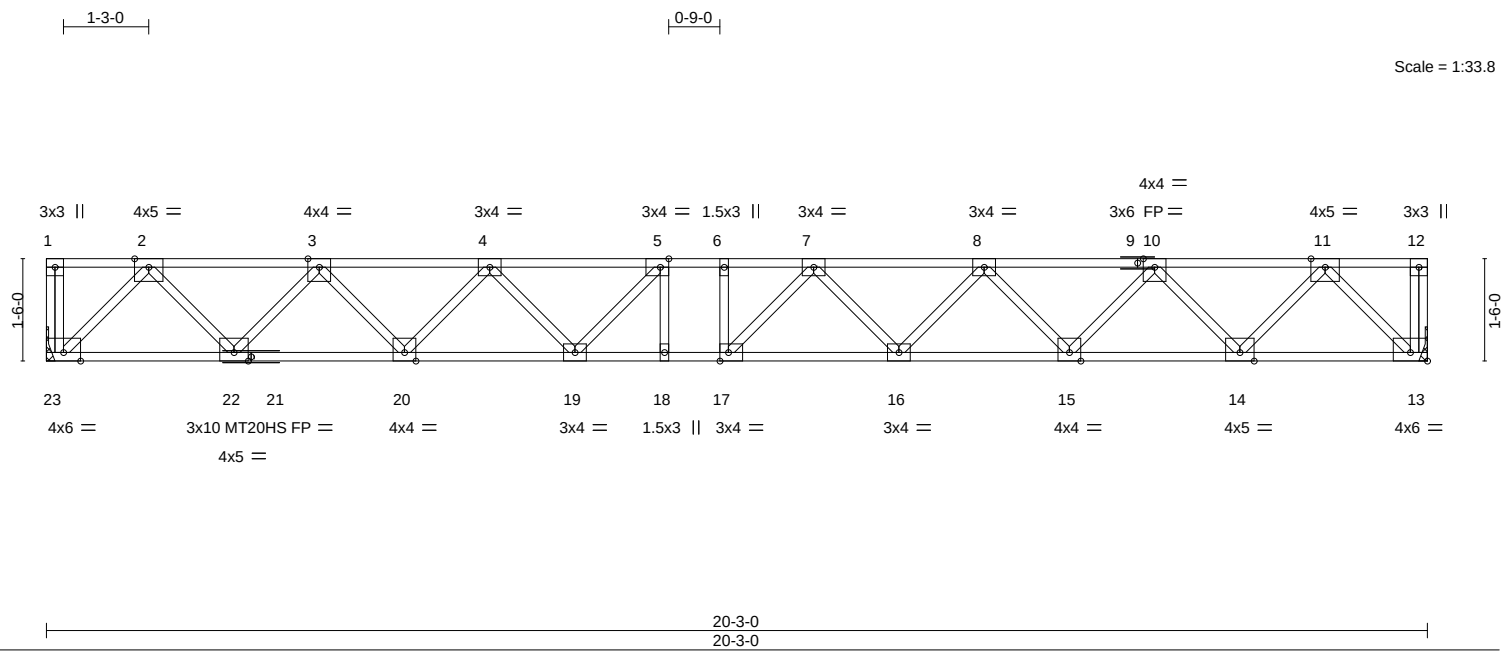

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:Edge,0-1-8], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.29	17	>825	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.47	16-17	>506	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.09	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 111 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=Mechanical, 13=Mechanical
Max Grav 23=1300(LC 1), 13=1300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2128/0, 3-4=-3576/0, 4-5=-4423/0, 5-6=-4704/0, 6-7=-4704/0, 7-8=-4426/0, 8-10=-3575/0, 10-11=-2128/0
BOT CHORD 22-23=0/1239, 20-22=0/2991, 19-20=0/4139, 18-19=0/4704, 17-18=0/4704, 16-17=0/4688, 15-16=0/4139, 14-15=0/2991, 13-14=0/1239
WEBS 11-13=-1752/0, 2-23=-1752/0, 11-14=0/1321, 2-22=0/1321, 10-14=-1283/0, 3-22=-1283/0, 10-15=0/869, 3-20=0/870, 8-15=-839/0, 4-20=-837/0, 8-16=0/427, 4-19=0/521, 7-16=-418/0, 5-19=-586/0, 7-17=-275/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F6G	Floor Girder	1	1	I50651217
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:28 2022 Page 1
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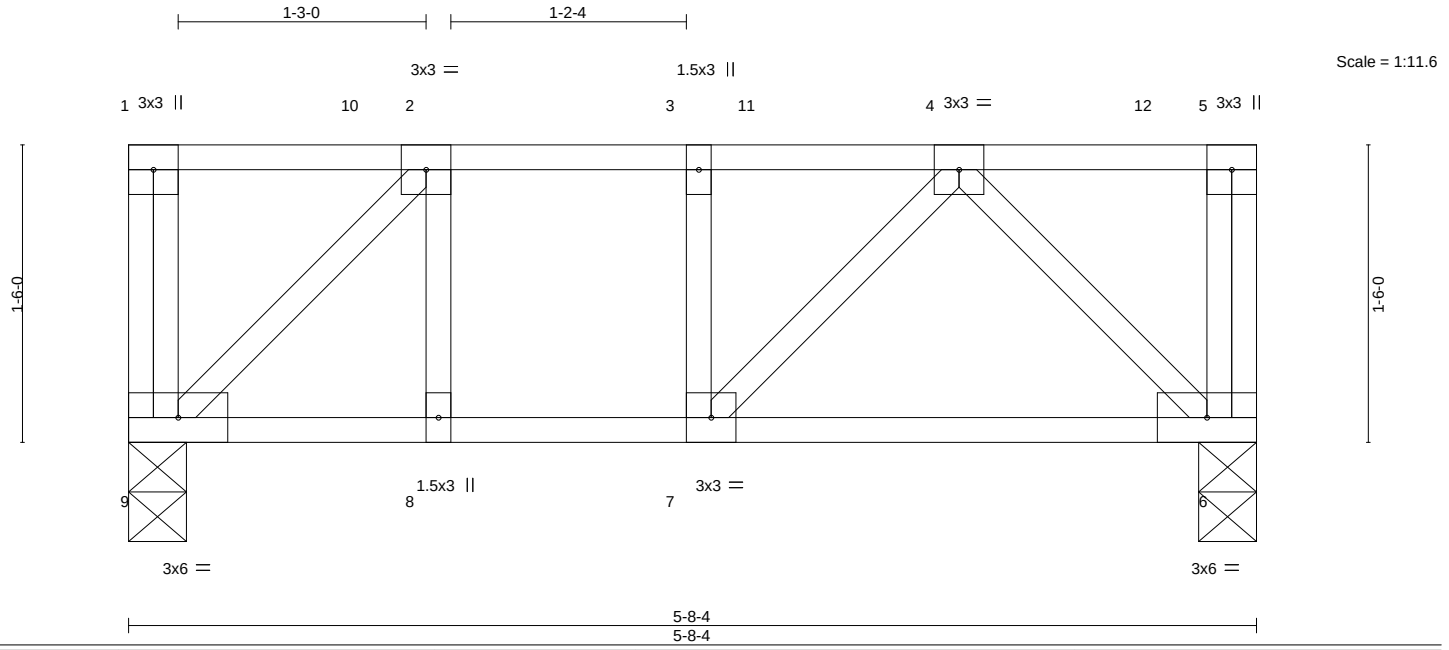

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=740(LC 1), 6=906(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-282/0, 2-3=-717/0, 3-4=-717/0
BOT CHORD 8-9=0/717, 7-8=0/717, 6-7=0/599
WEBS 4-6=-847/0, 2-9=-993/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 10=-299 11=-299 12=-340

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F7	Floor	7	1	I50651218
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:29 2022 Page 1
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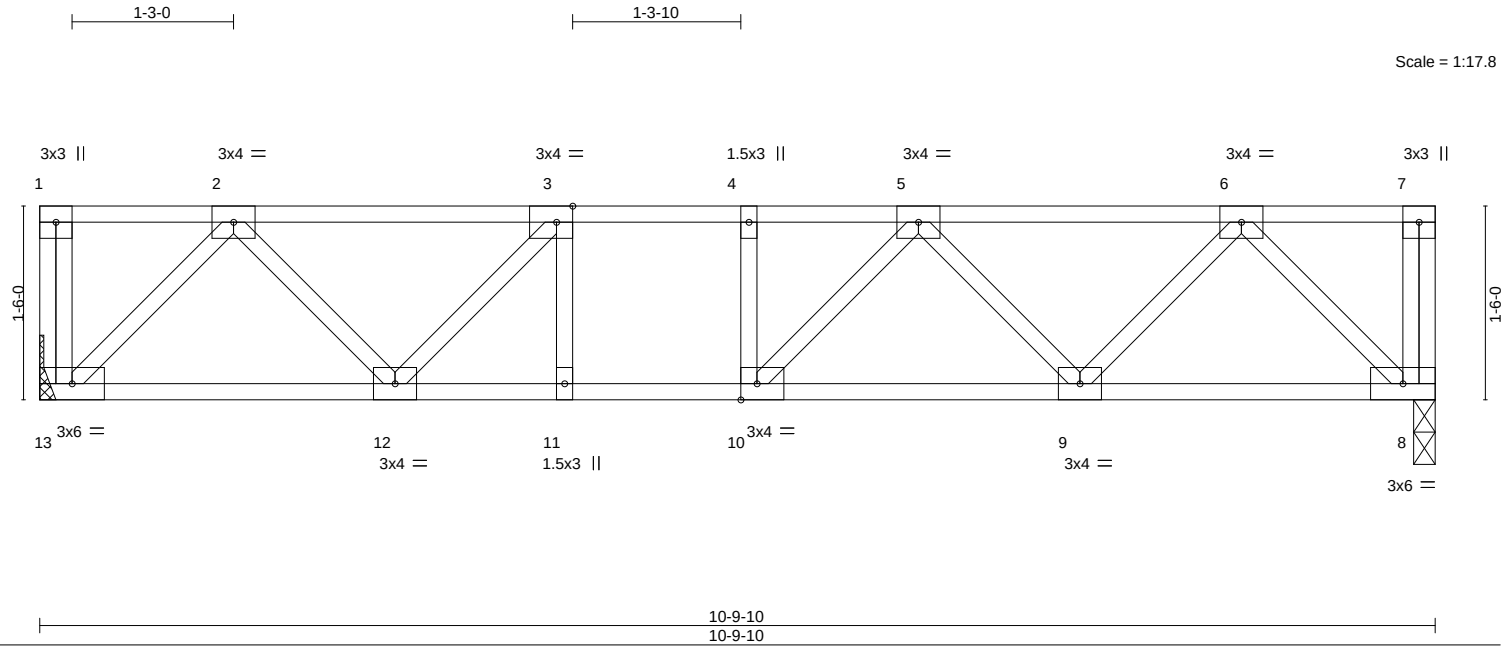

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-2-0
Max Grav 13=686(LC 1), 8=686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-955/0, 3-4=-1291/0, 4-5=-1291/0, 5-6=-959/0
BOT CHORD 12-13=0/626, 11-12=0/1291, 10-11=0/1291, 9-10=0/1254, 8-9=0/630
WEBS 6-8=-891/0, 2-13=-886/0, 6-9=0/489, 2-12=0/489, 5-9=-439/0, 3-12=-491/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F7G	Floor Girder	1	1	I50651219
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:29 2022 Page 1
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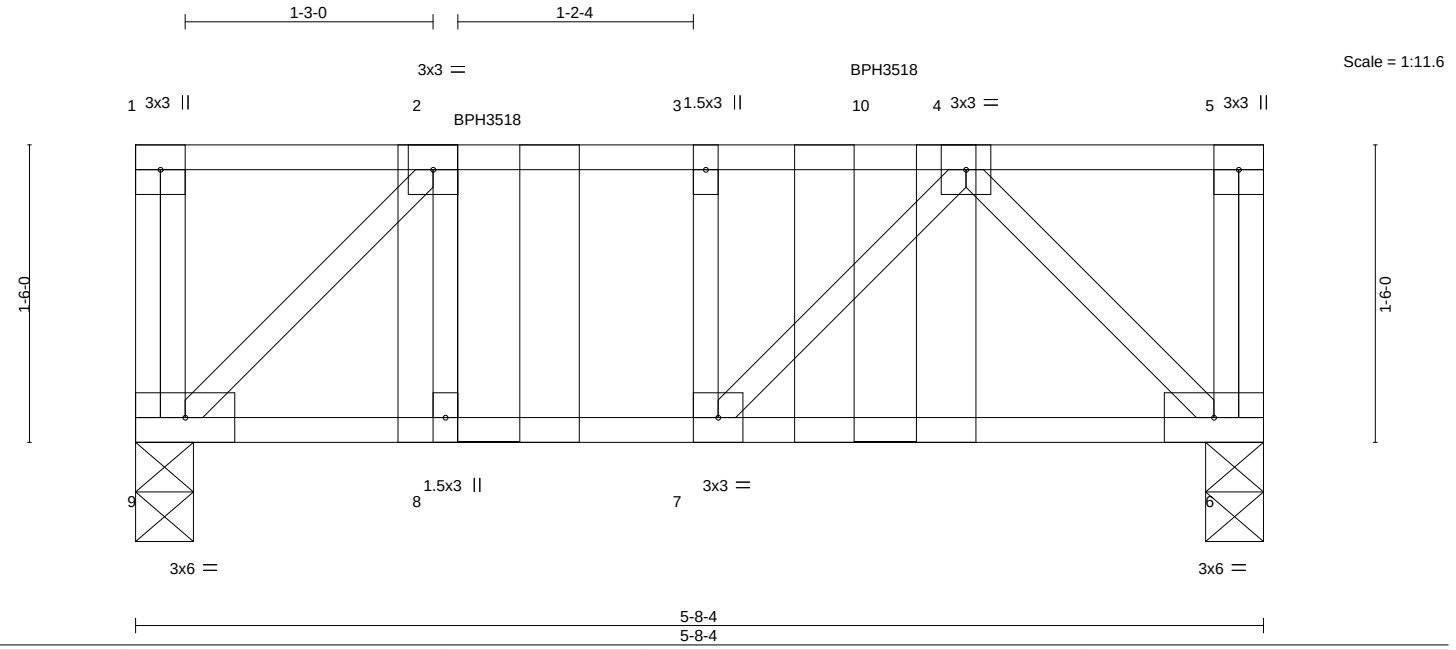

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=880(LC 1), 6=817(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-900/0, 3-4=-900/0
BOT CHORD 8-9=0/900, 7-8=0/900, 6-7=0/770
WEBS 4-6=-1089/0, 2-9=-1245/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-6 from the left end to 3-9-6 to connect truss(es) to back face of top chord.
5) Fill all nail holes where hanger is in contact with lumber.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-495(B) 10=-495(B)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F8	Floor	2	1	I50651220
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:30 2022 Page 1
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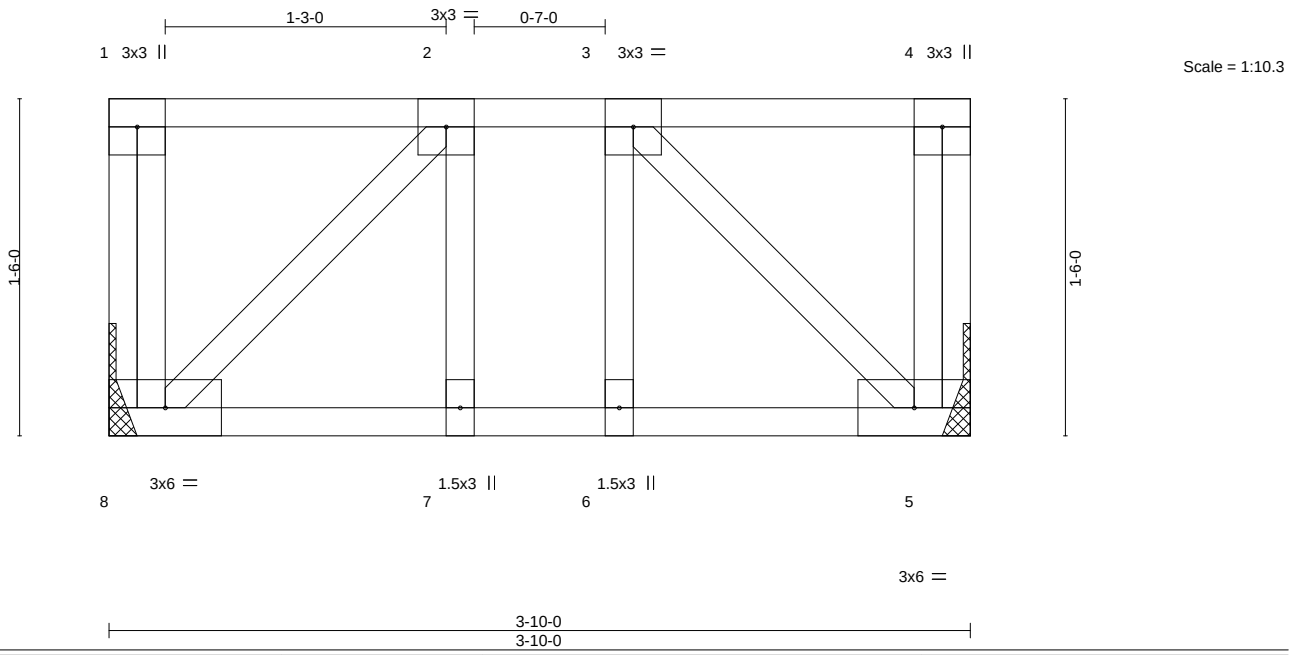

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 28 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=233(LC 1), 5=233(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F8G	Floor Girder	1	1	I50651221
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:30 2022 Page 1
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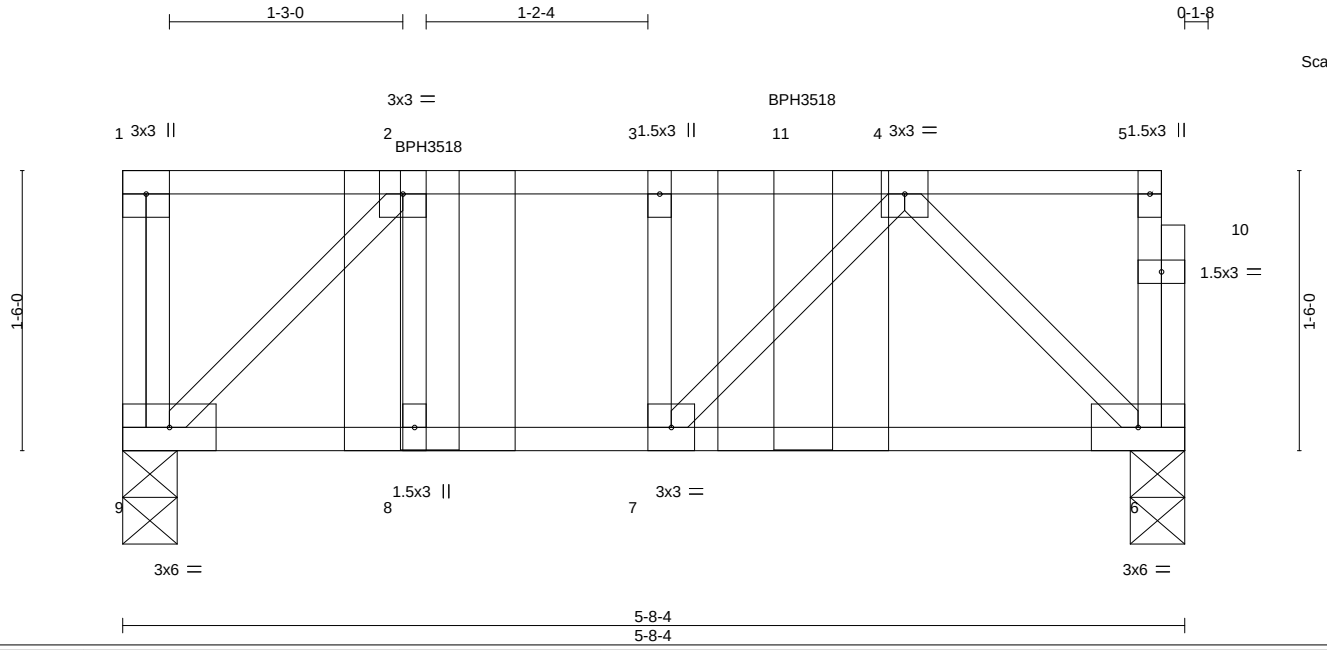

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=883(LC 1), 6=790(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-912/0, 3-4=-912/0
BOT CHORD 8-9=0/912, 7-8=0/912, 6-7=0/749
WEBS 4-6=-1059/0, 2-9=-1262/0, 4-7=0/269

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-12 from the left end to 3-7-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-487(B) 11=-487(B)

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F9	Floor	8	1	I50651222
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:31 2022 Page 1
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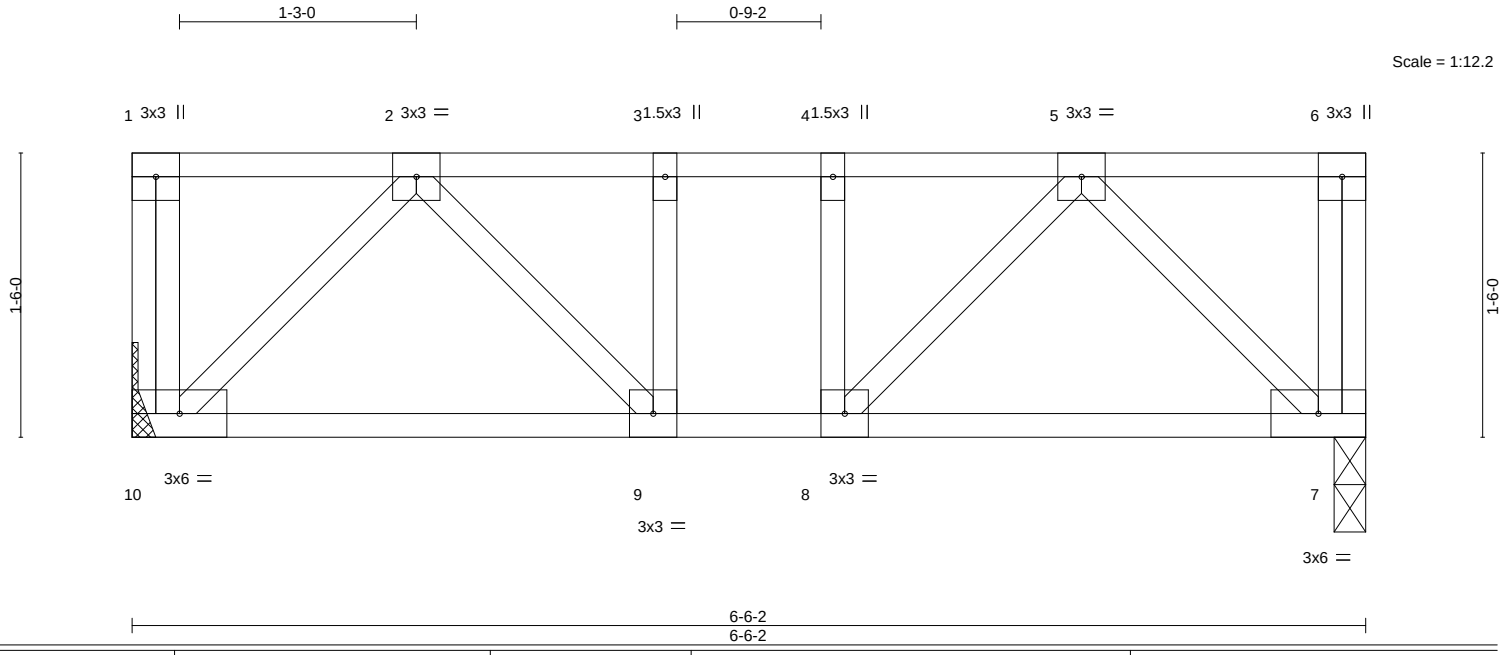

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-2-0
Max Grav 10=407(LC 1), 7=407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-464/0, 3-4=-464/0, 4-5=-464/0
BOT CHORD	9-10=0/330, 8-9=0/464, 7-8=0/330
WEBS	5-7=-466/0, 2-10=-466/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F9G	Floor Girder	2	1	I50651223
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:32 2022 Page 1
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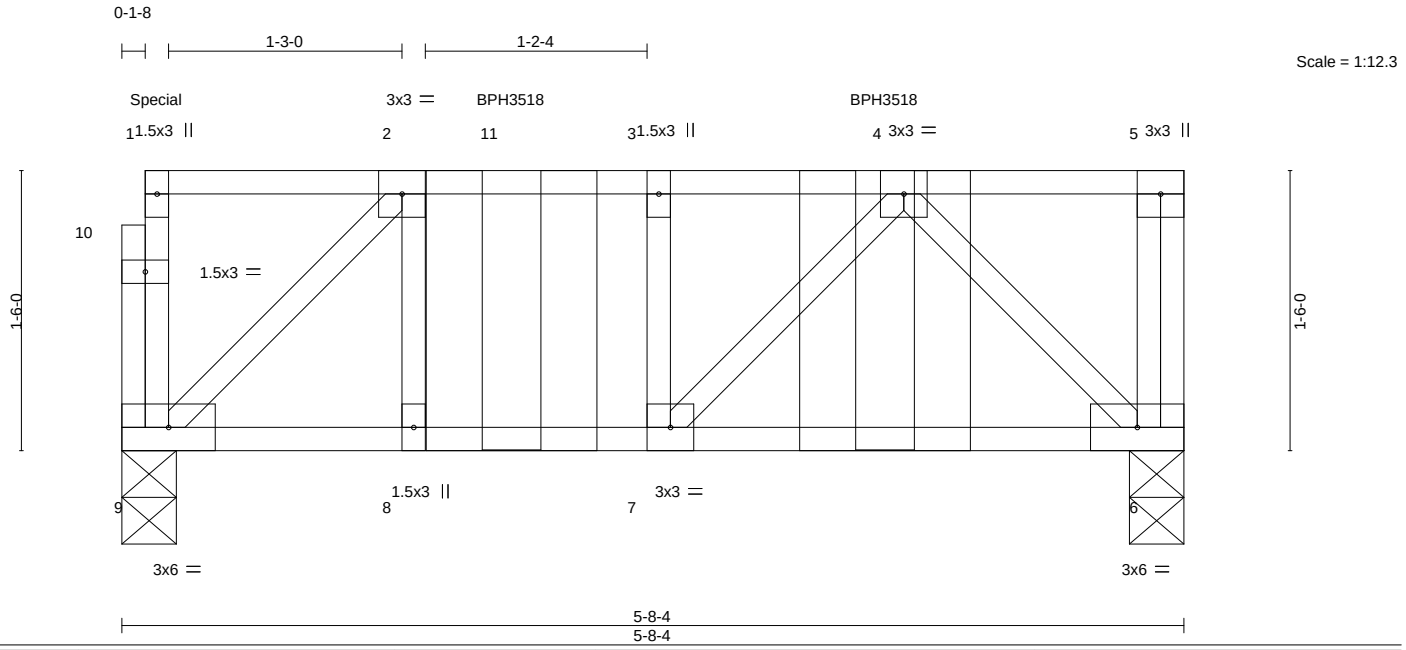

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.05	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.08	6-7	>840	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1319(LC 1), 6=894(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-532/0, 2-3=-892/0, 3-4=-892/0
BOT CHORD 8-9=0/892, 7-8=0/892, 6-7=0/802
WEBS 4-6=-1134/0, 2-9=-1202/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-1 from the left end to 4-1-1 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 585 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-549(F) 4=-483(F) 11=-483(F)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F10	Floor	12	1	I50651224
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:00 2022 Page 1
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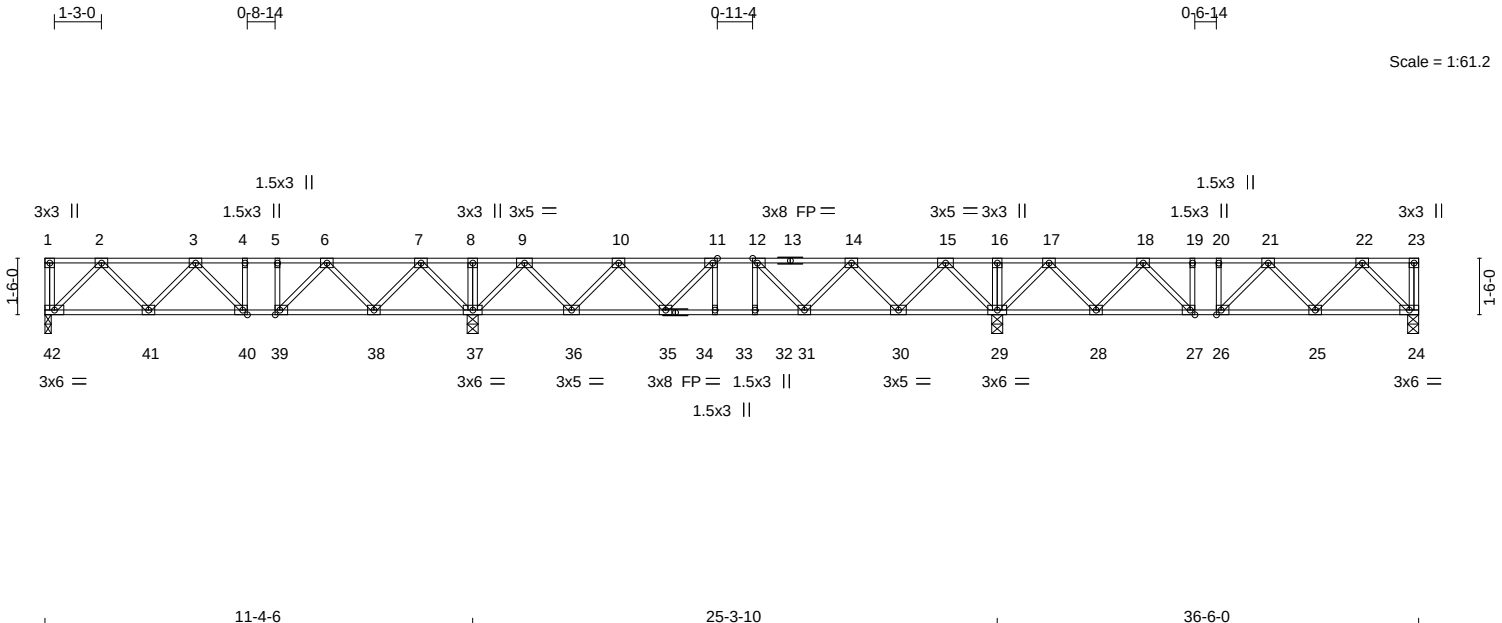

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=617(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/0, 3-4=-1073/0, 4-5=-1073/0, 5-6=-1073/0, 6-7=-404/434, 7-8=0/1402, 8-9=0/1402, 9-10=-287/290, 10-11=-1007/12, 11-12=-1207/0, 12-14=-1000/12, 14-15=-269/291, 15-16=0/1426, 16-17=0/1426, 17-18=-385/459, 18-19=-1030/0, 19-20=-1030/0, 20-21=-1030/0, 21-22=-828/0
BOT CHORD 41-42=0/574, 40-41=0/1096, 39-40=0/1073, 38-39=-182/842, 37-38=-696/0, 36-37=-548/0, 35-36=-101/796, 33-35=0/1207, 32-33=0/1207, 31-32=0/1207, 30-31=-102/783, 29-30=-564/0, 28-29=-723/0, 27-28=-207/815, 26-27=-0/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-812/0, 7-37=-1175/0, 2-41=0/415, 7-38=0/764, 3-41=-361/7, 6-38=-756/0, 3-40=-281/0, 6-39=0/547, 5-39=-267/0, 15-29=-1228/0, 9-37=-1221/0, 15-30=0/843, 9-36=0/836, 14-30=-812/0, 10-36=-805/0, 14-31=0/375, 10-35=0/368, 12-31=-370/0, 11-35=-361/0, 22-24=-794/0, 17-29=-1168/0, 22-25=0/397, 17-28=0/759, 21-25=-346/19, 18-28=-747/0, 21-26=-292/0, 18-27=0/524, 19-27=-252/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F10G	Floor Girder	1	1	I50651225
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:08 2022 Page 1
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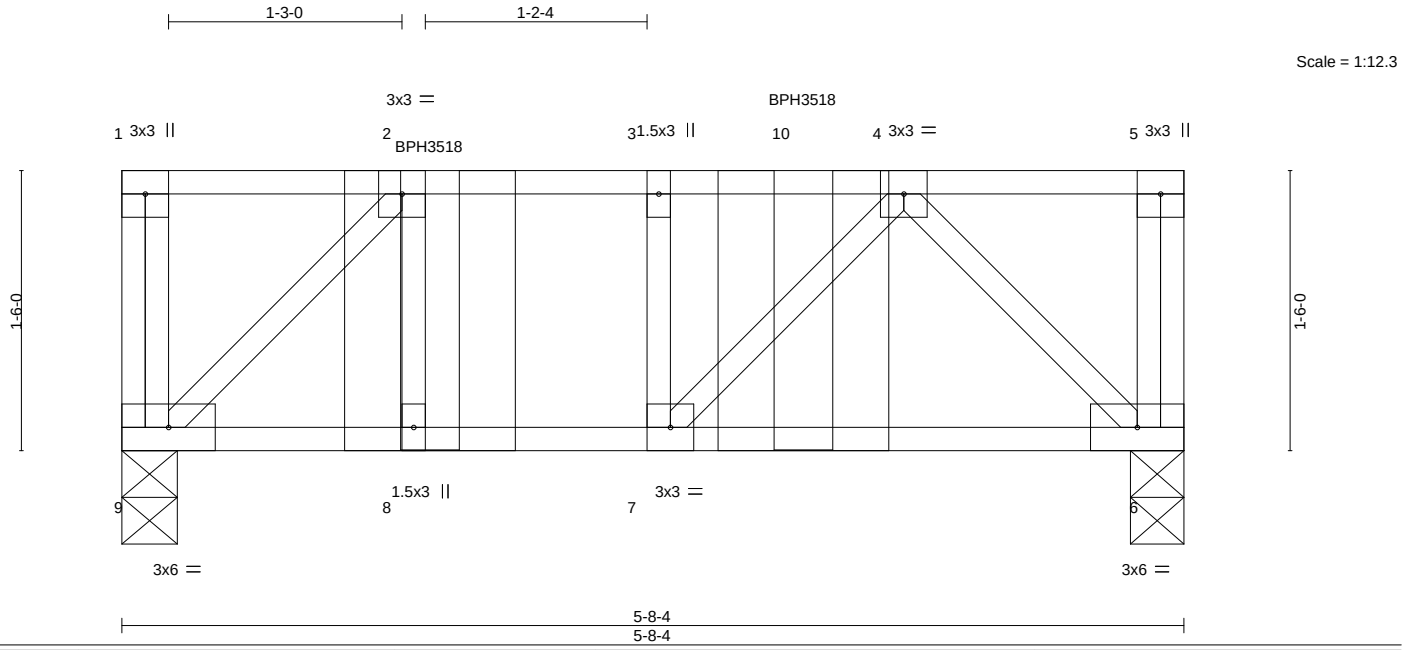

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-9, 6=0-3-7
Max Grav 9=883(LC 1), 6=798(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-911/0, 3-4=-911/0
BOT CHORD 8-9=0/911, 7-8=0/911, 6-7=0/750
WEBS 4-6=-1061/0, 2-9=-1260/0, 4-7=0/268

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-13 from the left end to 3-7-13 to connect truss(es) to front face of top chord.
5) Fill all nail holes where hanger is in contact with lumber.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-487(F) 10=-487(F)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F11	Floor	2	1	I50651226
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:10 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-Vrzw6WRvo6x6iHw8U4kao1NrCfjOQhmGe7tJUUzd03R

1-3-0 0-8-14 1-4-8 1-4-10

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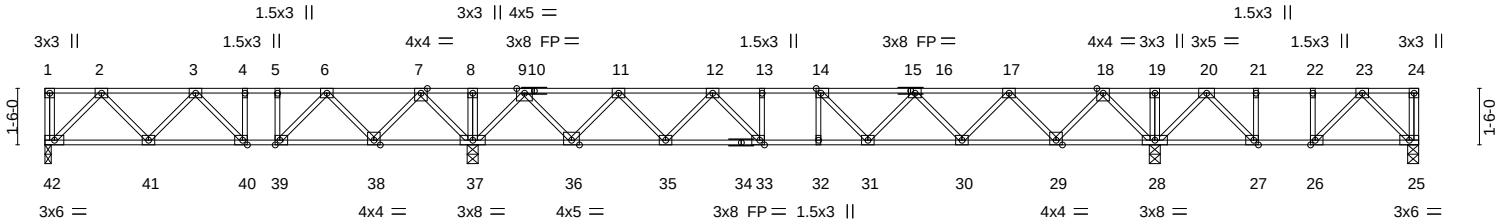

11-4-6 29-5-14 36-6-0
11-4-6 18-1-8 7-0-2

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	31-32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	31-32	>950	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
25-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 25
Max Grav All reactions 250 lb or less at joint(s) except 42=597(LC 5), 25=346(LC 5), 37=2234(LC 16), 28=1856(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-792/2, 3-4=-940/320, 4-5=-940/320, 5-6=-940/320, 6-7=-199/974, 7-8=0/2069, 8-9=0/2069, 9-11=-186/271, 11-12=-1466/0, 12-13=-2299/0, 13-14=-2299/0, 14-16=-2256/0, 16-17=-1703/0, 17-18=-588/0, 18-19=0/1361, 19-20=0/1361, 20-21=-296/424, 21-22=-296/424, 22-23=-296/424
BOT CHORD 41-42=0/542, 40-41=-89/1004, 39-40=-320/940, 38-39=-640/668, 37-38=-1310/0, 36-37=-901/0, 35-36=0/974, 33-35=0/1961, 32-33=0/2299, 31-32=0/2299, 30-31=0/2133, 29-30=0/1274, 28-29=-314/0, 27-28=-882/0, 26-27=-424/296, 25-26=-125/264
WEBS 2-42=-766/0, 7-37=-1287/0, 2-41=-60/372, 7-38=0/869, 3-41=-315/129, 6-38=-874/0, 3-40=-442/0, 6-39=0/708, 5-39=-342/0, 18-28=-1509/0, 9-37=-1651/0, 18-29=0/1119, 9-36=0/1252, 17-29=-1069/0, 11-36=-1212/0, 17-30=0/663, 11-35=0/769, 16-30=-643/0, 12-35=-783/0, 12-33=0/679, 13-33=-290/0, 23-25=-374/177, 20-28=-877/0, 23-26=-433/46, 20-27=0/840, 21-27=-446/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F11G	Floor Girder	1	1	I50651227
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:11 2022 Page 1
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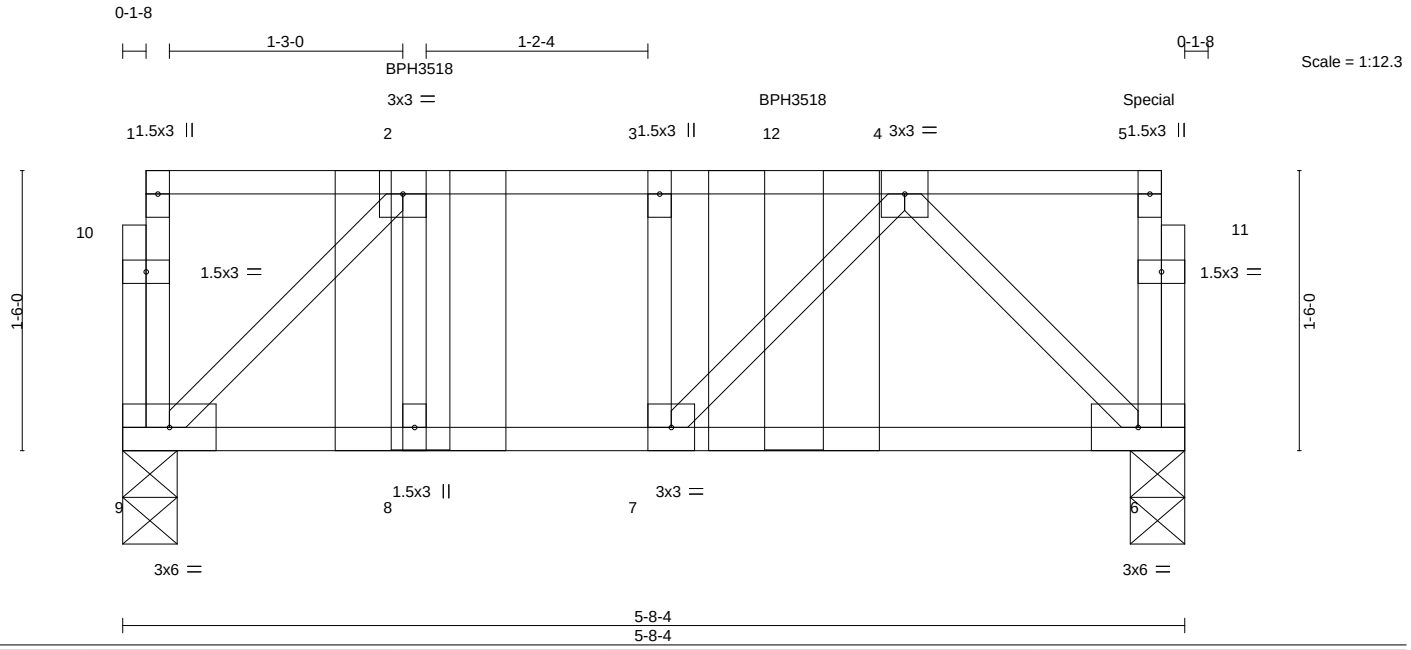

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 35 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=792(LC 1), 6=1170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-488/0, 2-3=-823/0, 3-4=-823/0
BOT CHORD 8-9=0/823, 7-8=0/823, 6-7=0/678
WEBS 4-6=-927/0, 2-9=-1137/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent at 1-7-2 from the left end to connect truss(es) to front face of top chord.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 3-7-2 from the left end to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down at 5-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 5=-467(F) 2=-401(F) 12=-401(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F12	Floor	8	1	I50651228
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:13 2022 Page 1
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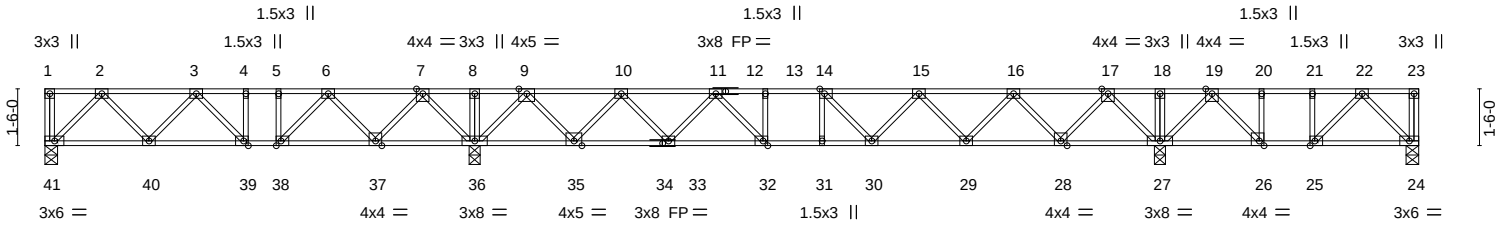

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-4-6 29-5-14 36-4-0
11-4-6 18-1-8 6-10-2

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.22	30-31	>989	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 36=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-117(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=598(LC 5), 24=324(LC 5), 36=2219(LC 16), 27=1886(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-794/0, 3-4=-944/305, 4-5=-944/305, 5-6=-944/305, 6-7=-206/951, 7-8=0/2040, 8-9=0/2040, 9-10=-195/269, 10-11=-1456/0, 11-13=-2263/0, 13-14=-2263/0, 14-15=-2203/0, 15-16=-1630/0, 16-17=-488/0, 17-18=0/1460, 18-19=0/1460, 19-20=-252/489, 20-21=-252/489, 21-22=-252/489
BOT CHORD 40-41=0/543, 39-40=-79/1007, 38-39=-305/944, 37-38=-620/674, 36-37=-1284/0, 35-36=-883/0, 33-35=0/973, 32-33=0/1941, 31-32=0/2263, 30-31=0/2263, 29-30=0/2069, 28-29=0/1185, 27-28=-404/0, 26-27=-971/0, 25-26=-489/252
WEBS 2-41=-768/0, 7-36=-1283/0, 2-40=-55/374, 7-37=0/865, 3-40=-316/124, 6-37=-869/0, 3-39=-435/0, 6-38=0/701, 5-38=-339/0, 17-27=-1524/0, 9-36=-1635/0, 17-28=0/1134, 9-35=0/1236, 16-28=-1085/0, 10-35=-1197/0, 16-29=0/677, 10-33=0/755, 15-29=-657/0, 11-33=-767/0, 15-30=0/253, 11-32=0/659, 13-32=-280/0, 22-24=-344/223, 19-27=-904/0, 22-25=-480/13, 19-26=0/860, 20-26=-452/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 24.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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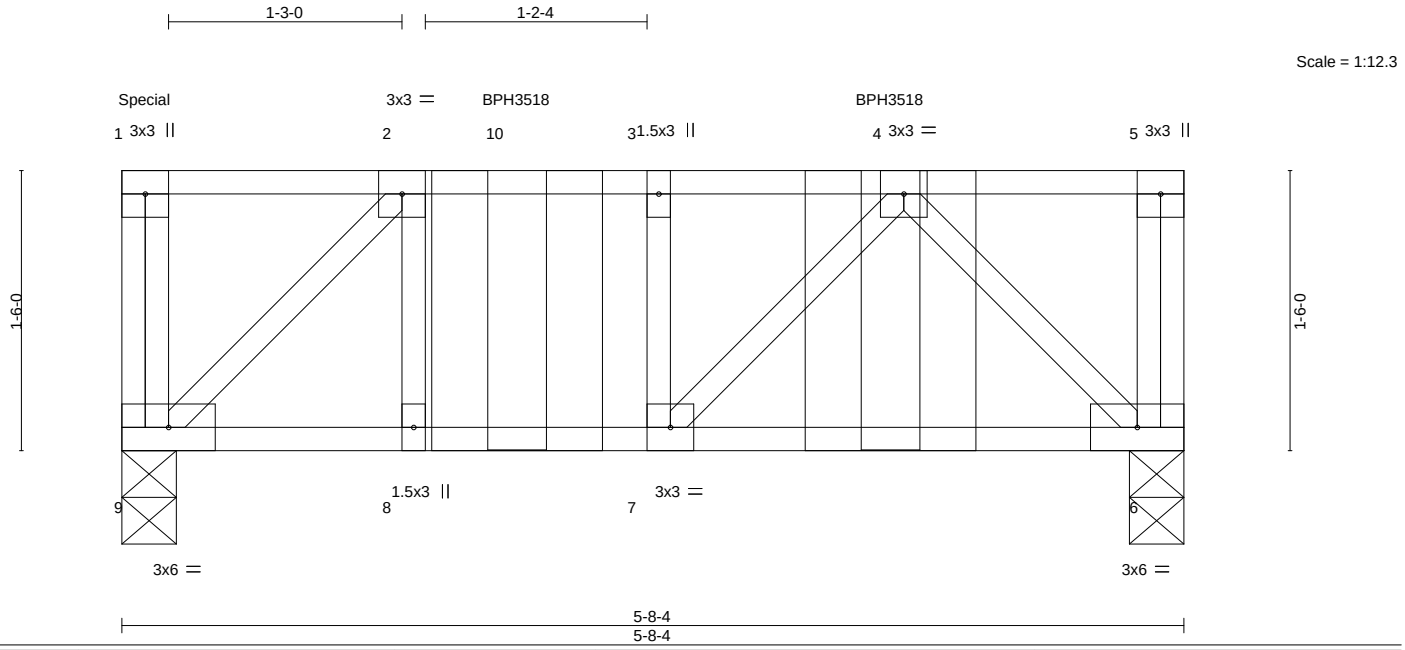
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F12G	Floor Girder	1	1	I50651229
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:14 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-OcCQytUPsLSYBvEvjvpWytYW7H7eMa3sZlrWdFzd03N



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.07	6-7	>885	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9,5-6: 2x4 SP No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1161(LC 1), 6=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-9=-464/0, 2-3=-774/0, 3-4=-774/0
BOT CHORD	8-9=0/774, 7-8=0/774, 6-7=0/698
WEBS	4-6=-987/0, 2-9=-1070/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-6 from the left end to 4-1-6 to connect truss(es) to back face of top chord.
5) Fill all nail holes where hanger is in contact with lumber.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 501 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 6-9=-10, 1-5=-120
   Concentrated Loads (lb)
   Vert: 1=-462(B) 4=-390(B) 10=-390(B)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

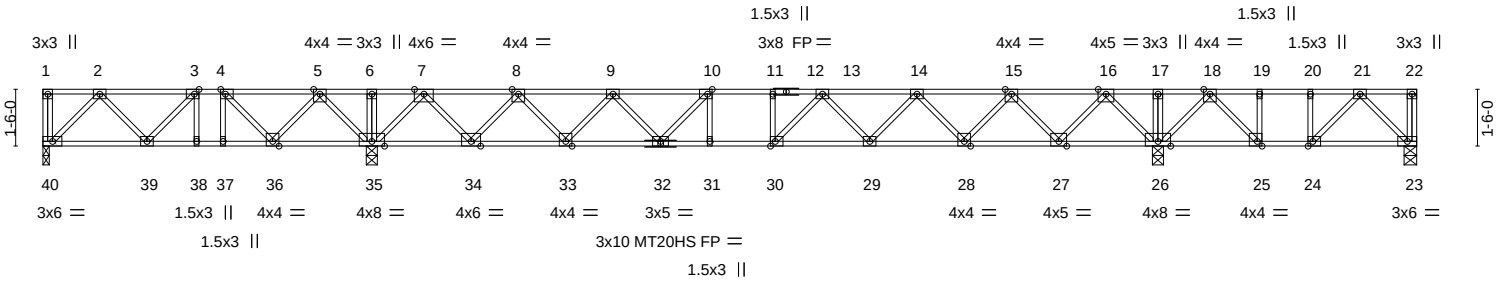
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F13	Floor	8	1	I50651230
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:16 2022 Page 1
ID:fbPe_OLI9YQ0M7VZeqph0MzGCvL-K?KBMZWgOyiGQCOIrKr_2IdrR4lKqOj903Kdi7zd03L

1-3-0 0-6-14 1-6-8 1-2-10

Scale = 1:60.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-8-6	29-5-14	36-4-0
8-8-6	20-9-8	6-10-2

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.20	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	29-30	>775	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 12-22: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 23-32: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 40=0-2-0, 23=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 40=-187(LC 6), 23=-219(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 40=376(LC 5), 23=280(LC 5), 35=2388(LC 16), 26=2147(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-361/491, 3-4=-332/905, 4-5=0/1457, 5-6=0/2613, 6-7=0/2613, 7-8=0/315, 8-9=-1422/0, 9-10=-2438/0, 10-11=-2859/0, 11-13=-2859/0, 13-14=-2610/0, 14-15=-1749/0, 15-16=-314/0, 16-17=0/1962, 17-18=0/1962, 18-19=-145/735, 19-20=-145/735, 20-21=-145/735
BOT CHORD	39-40=-193/331, 38-39=-905/332, 37-38=-905/332, 36-37=-905/332, 35-36=-1924/0, 34-35=-1293/0, 33-34=0/755, 32-33=0/2061, 31-32=0/2859, 30-31=0/2859, 29-30=0/2868, 28-29=0/2314, 27-28=0/1173, 26-27=-736/0, 25-26=-1366/0, 24-25=-735/145, 23-24=-258/200
WEBS	2-40=-468/273, 5-35=-1249/0, 2-39=-443/45, 5-36=0/900, 3-39=0/599, 4-36=-1017/0, 3-38=-416/0, 4-37=0/430, 16-26=-1745/0, 7-35=-1866/0, 16-27=0/1356, 7-34=0/1458, 15-27=-1303/0, 8-34=-1436/0, 15-28=0/882, 8-33=0/1011, 14-28=-863/0, 9-33=-967/0, 14-29=0/456, 9-32=0/597, 13-29=-389/0, 10-32=-729/0, 13-30=-251/295, 21-23=-283/364, 18-26=-1039/0, 21-24=-692/0, 18-25=0/1076, 19-25=-571/0, 20-24=0/348

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 40 and 219 lb uplift at joint 23.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F14	Posi Strut Floor Girder	1	1	I50651231
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:17 2022 Page 1
ID:fbPe_OLI9YQ0M7VZeqph0MzGCvL-oBuZavXI9Gq72MzUO2MDaWA?lU3xZpZIFj3BEazd03K

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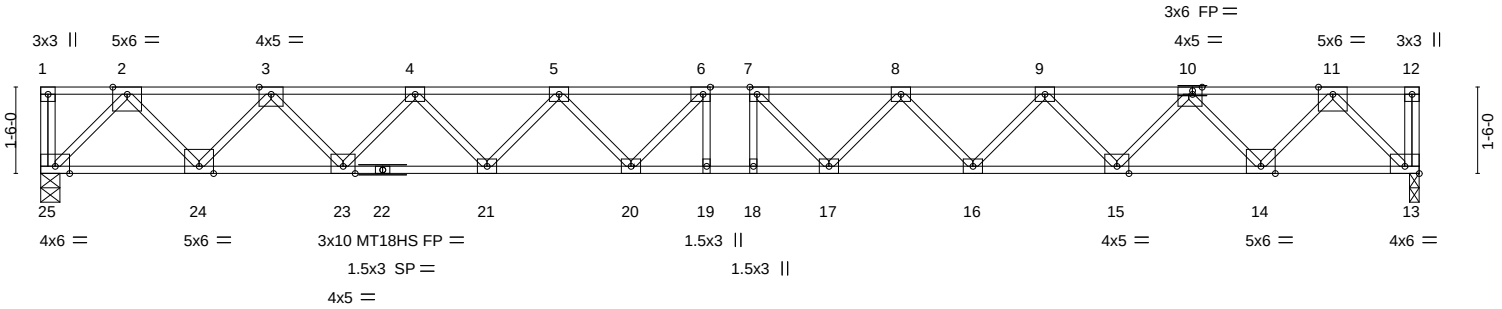

23-11-4
23-11-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [10:0-2-0,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.48	19	>595	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.78	19	>366	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.13	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 130 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
13-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-25,12-13: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 21-23.

REACTIONS. (size) 25=0-4-0, 13=0-2-0
Max Grav 25=1540(LC 1), 13=1540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2584/0, 3-4=-4465/0, 4-5=-5755/0, 5-6=-6445/0, 6-7=-6638/0, 7-8=-6445/0, 8-9=-5756/0, 9-10=-4465/0, 10-11=-2584/0
BOT CHORD 24-25=0/1477, 23-24=0/3665, 21-23=0/5243, 20-21=0/6245, 19-20=0/6638, 18-19=0/6638, 17-18=0/6638, 16-17=0/6245, 15-16=0/5243, 14-15=0/3665, 13-14=0/1477
WEBS 11-13=-2089/0, 2-25=-2089/0, 11-14=0/1645, 2-24=0/1645, 10-14=-1608/0, 3-24=-1607/0, 10-15=0/1189, 3-23=0/1189, 9-15=-1157/0, 4-23=-1157/0, 9-16=0/762, 4-21=0/761, 8-16=-727/0, 5-21=-727/0, 8-17=-12/481, 5-20=-12/481, 7-17=-561/137, 6-20=-561/137

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F15	Floor	2	1	I50651232
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:19 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-ka0J?bYYht4qHg6tWTPhfxFLFIlP1j3bi1YHJSzd03I

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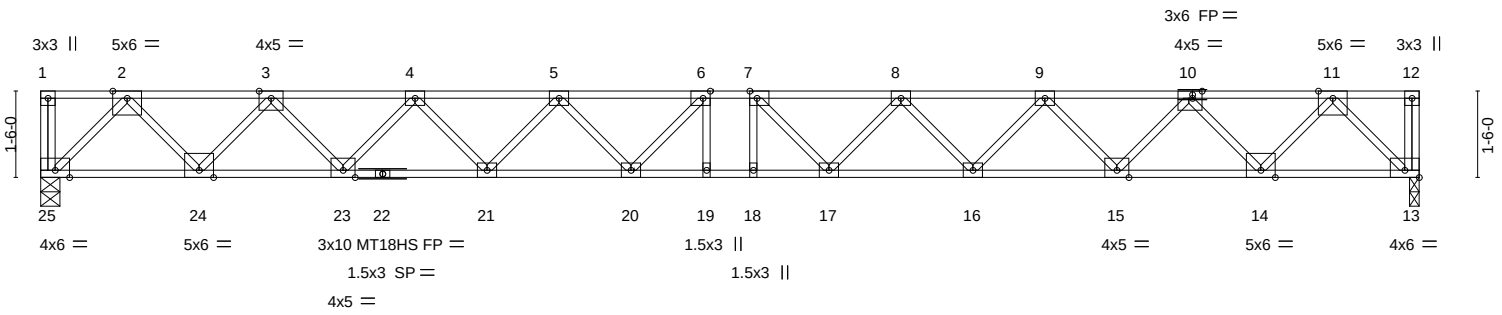
Scale = 1:40.0



23-11-4
23-11-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [10:0-2-0,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.48	19	>595	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.78	19	>366	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.13	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 130 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
13-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 21-23.

REACTIONS. (size) 25=0-4-0, 13=0-2-0
Max Grav 25=1540(LC 1), 13=1540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2584/0, 3-4=-4465/0, 4-5=-5755/0, 5-6=-6445/0, 6-7=-6638/0, 7-8=-6445/0, 8-9=-5756/0, 9-10=-4465/0, 10-11=-2584/0
BOT CHORD 24-25=0/1477, 23-24=0/3665, 21-23=0/5243, 20-21=0/6245, 19-20=0/6638, 18-19=0/6638, 17-18=0/6638, 16-17=0/6245, 15-16=0/5243, 14-15=0/3665, 13-14=0/1477
WEBS 11-13=-2089/0, 2-25=-2089/0, 11-14=0/1645, 2-24=0/1645, 10-14=-1608/0, 3-24=-1607/0, 10-15=0/1189, 3-23=0/1189, 9-15=-1157/0, 4-23=-1157/0, 9-16=0/762, 4-21=0/761, 8-16=-727/0, 5-21=-727/0, 8-17=-12/481, 5-20=-12/481, 7-17=-561/137, 6-20=-561/137

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

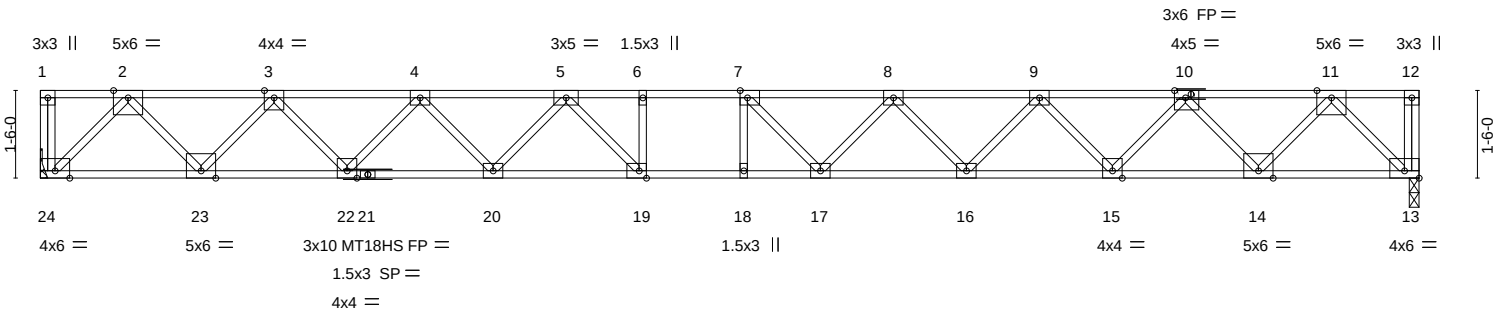
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F16	Floor	10	1	I50651233
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:20 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-DmZiCxZASBChvqh34AwwC8obWh6Em9XlxhIrrvzd03H

1-3-0 1-7-4

Scale = 1:39.4



23-7-4
23-7-4

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.43	18	>659	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.69	17-18	>406	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=Mechanical, 13=0-2-0
Max Grav 24=1518(LC 1), 13=1518(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2542/0, 3-4=-4388/0, 4-5=-5620/0, 5-6=-6399/0, 6-7=-6399/0, 7-8=-6286/0, 8-9=-5636/0, 9-10=-4385/0, 10-11=-2542/0
BOT CHORD 23-24=0/1456, 22-23=0/3603, 20-22=0/5147, 19-20=0/6093, 18-19=0/6399, 17-18=0/6399, 16-17=0/6114, 15-16=0/5141, 14-15=0/3605, 13-14=0/1455
WEBS 11-13=-2058/0, 2-24=-2059/0, 11-14=0/1616, 2-23=0/1614, 10-14=-1580/0, 3-23=-1578/0, 10-15=0/1159, 3-22=0/1168, 9-15=-1124/0, 4-22=-1127/0, 9-16=0/736, 4-20=0/703, 8-16=-710/0, 5-20=-706/0, 8-17=-18/478, 5-19=-65/802, 7-17=-551/234, 6-19=-363/0, 7-18=-254/139

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F17	Floor	3	1	I50651234
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:20 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-DmZiCxZASBChvqh34AwwC8ohphDMmHClxhIrrvzd03H

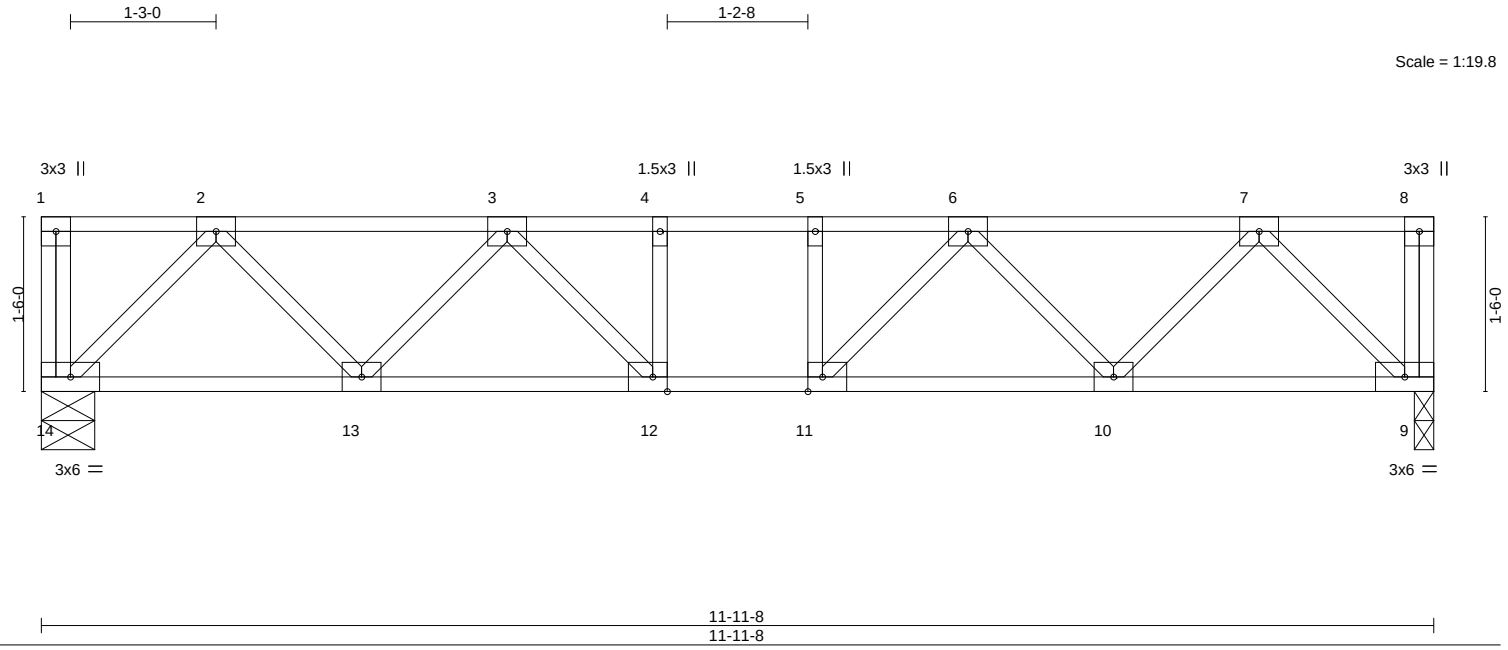

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 9=0-2-0
Max Grav 14=761(LC 1), 9=761(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/0, 3-4=-1604/0, 4-5=-1604/0, 5-6=-1604/0, 6-7=-1099/0
BOT CHORD 13-14=0/705, 12-13=0/1465, 11-12=0/1604, 10-11=0/1465, 9-10=0/705
WEBS 7-9=-997/0, 2-14=-997/0, 7-10=0/585, 2-13=0/585, 6-10=-545/0, 3-13=-545/0, 6-11=0/354, 3-12=0/354

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

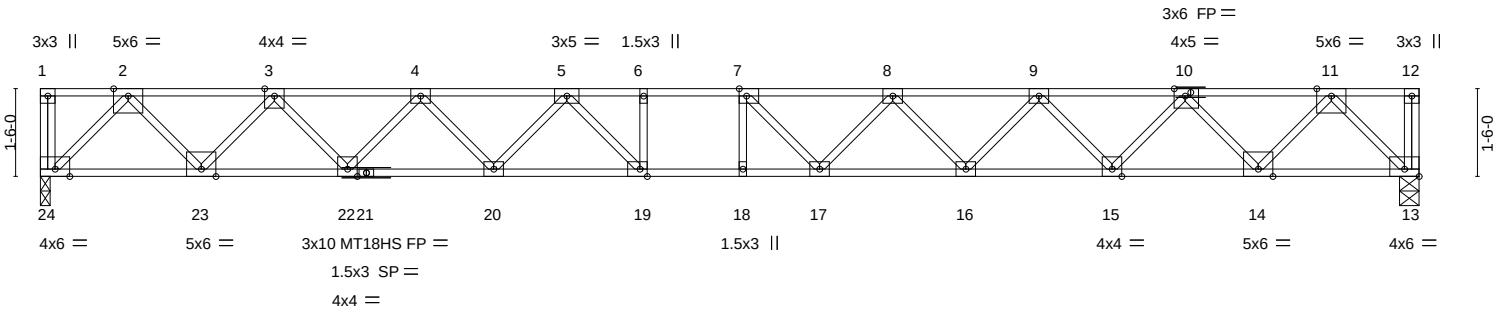
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F18	Floor	24	1	I50651235
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:21 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-hz74QHaoDUKYXzGFdtR9kMKmJ5RXVcouAL1ONLzd03G

1-3-0 1-6-14

Scale = 1:39.4



23-6-14
23-6-14

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.42	18	>662	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.69	17-18	>408	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=0-2-0, 13=0-4-0
Max Grav 24=1516(LC 1), 13=1516(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2538/0, 3-4=-4381/0, 4-5=-5609/0, 5-6=-6382/0, 6-7=-6382/0, 7-8=-6271/0, 8-9=-5625/0, 9-10=-4377/0, 10-11=-2538/0
BOT CHORD 23-24=0/1454, 22-23=0/3597, 20-22=0/5137, 19-20=0/6079, 18-19=0/6382, 17-18=0/6382, 16-17=0/6101, 15-16=0/5131, 14-15=0/3600, 13-14=0/1453
WEBS 11-13=-2055/0, 2-24=-2056/0, 11-14=0/1613, 2-23=0/1611, 10-14=-1577/0, 3-23=-1575/0, 10-15=0/1156, 3-22=0/1165, 9-15=-1121/0, 4-22=-1124/0, 9-16=0/734, 4-20=0/701, 8-16=-707/0, 5-20=-703/0, 8-17=-21/475, 5-19=-67/795, 7-17=-546/234, 6-19=-358/0, 7-18=-253/138

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F19	Floor	12	1	I50651236
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:22 2022 Page 1
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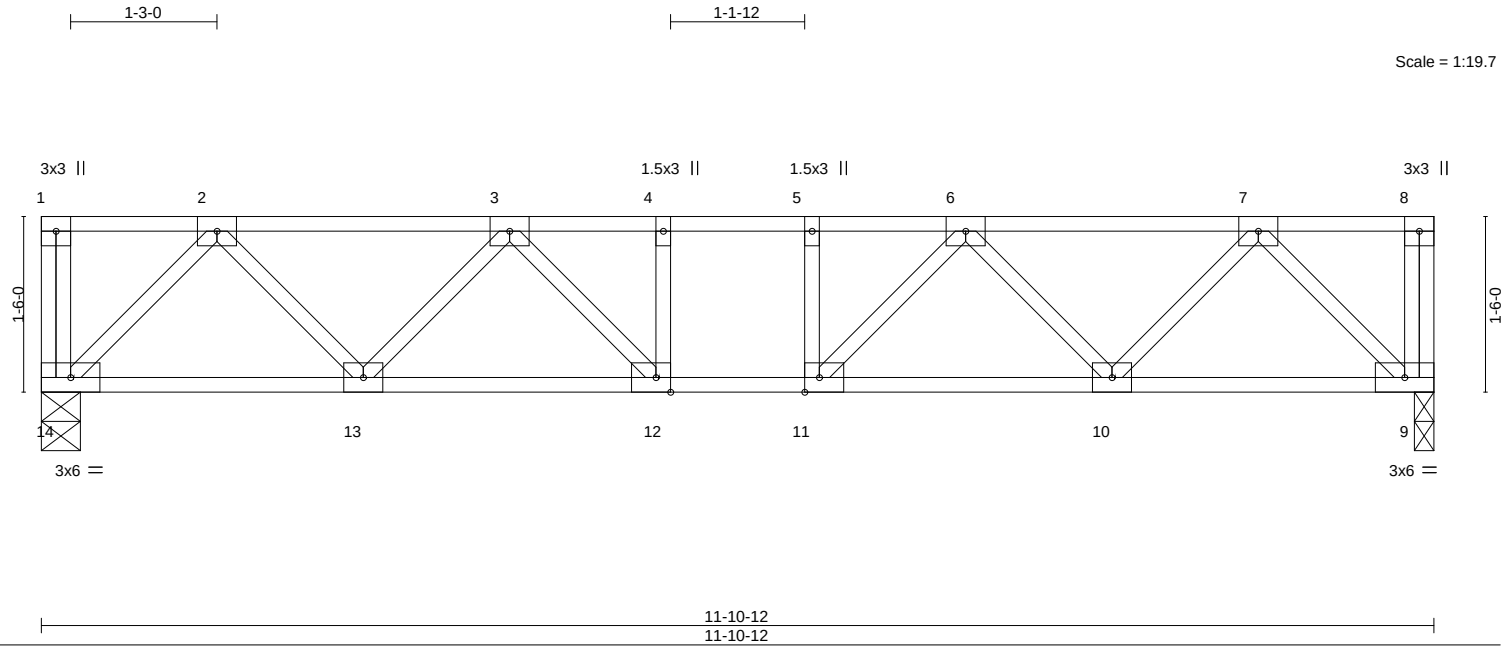

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 7-9=-991/0, 2-14=-991/0, 7-10=0/580, 2-13=0/580, 6-10=-540/0, 3-13=-540/0, 6-11=0/345, 3-12=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F20	Floor	12	1	I50651237
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:29 2022 Page 1
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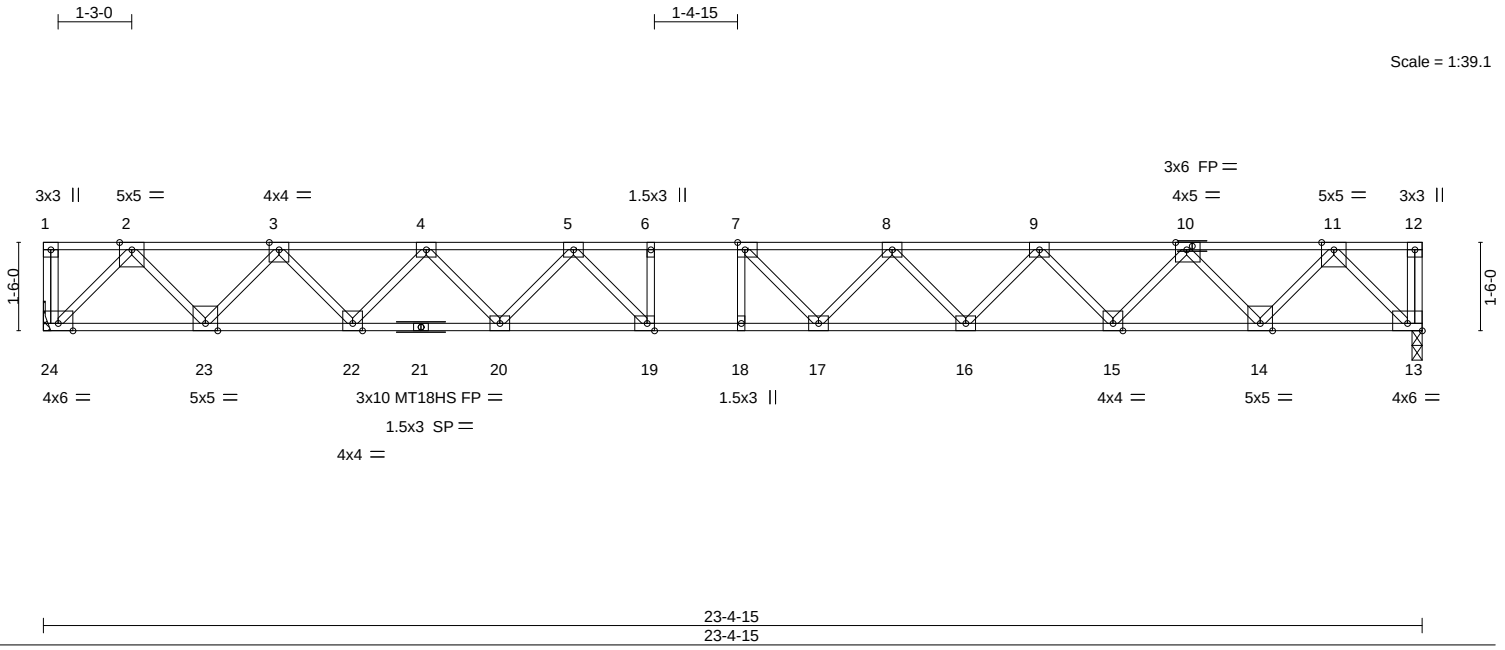

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.41	17-18	>676	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.67	17-18	>417	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=Mechanical, 13=0-2-1
Max Grav 24=1505(LC 1), 13=1505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2518/0, 3-4=-4342/0, 4-5=-5551/0, 5-6=-6298/0, 6-7=-6298/0, 7-8=-6194/0, 8-9=-5567/0, 9-10=-4338/0, 10-11=-2518/0
BOT CHORD	23-24=0/1443, 22-23=0/3568, 20-22=0/5088, 19-20=0/6012, 18-19=0/6298, 17-18=0/6298, 16-17=0/6033, 15-16=0/5083, 14-15=0/3570, 13-14=0/1443
WEBS	11-13=-2040/0, 2-24=-2041/0, 11-14=0/1599, 2-23=0/1597, 10-14=-1563/0, 3-23=-1561/0, 10-15=0/1142, 3-22=0/1150, 9-15=-1107/0, 4-22=-1110/0, 9-16=0/719, 4-20=0/688, 8-16=-693/0, 5-20=-686/0, 8-17=-33/458, 5-19=-78/758, 7-17=-521/234, 6-19=-334/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F21	Floor	12	1	I50651238
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:30 2022 Page 1
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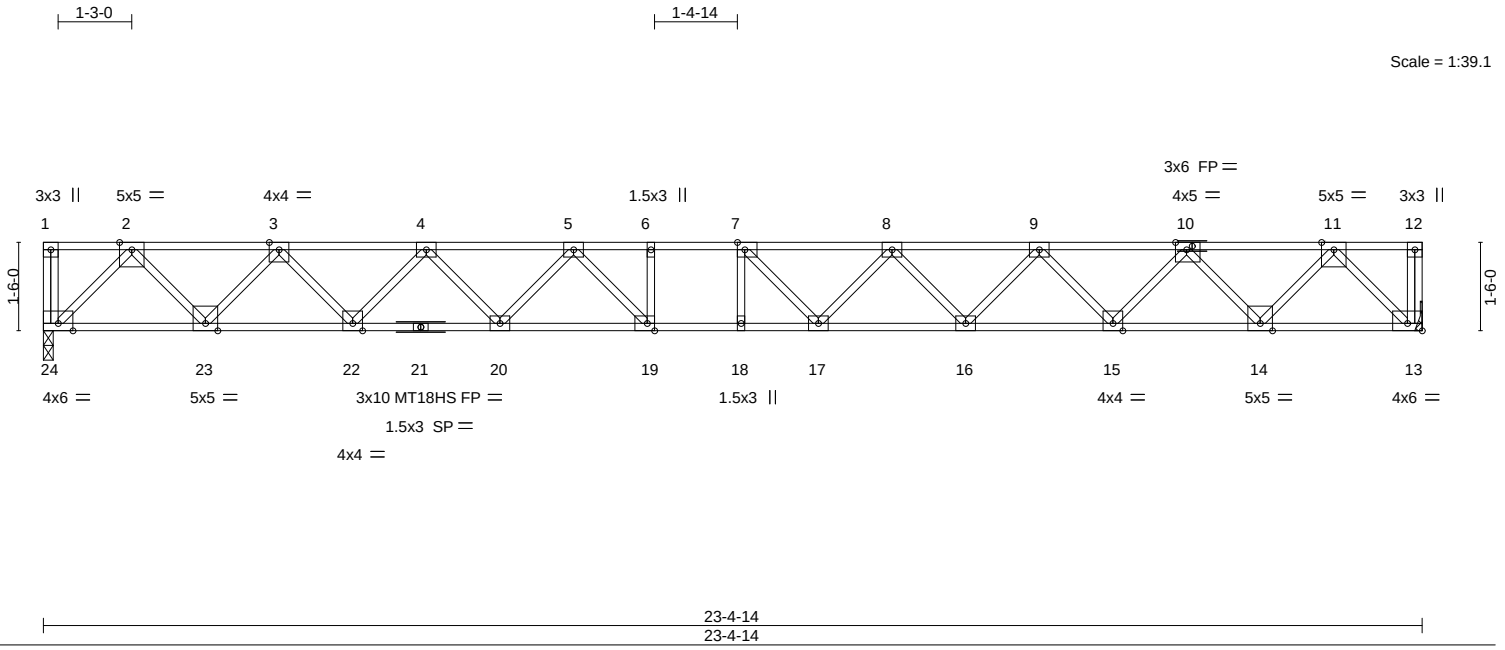

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.41	17-18	>676	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.67	17-18	>417	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=0-2-0, 13=Mechanical
Max Grav 24=1505(LC 1), 13=1505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2517/0, 3-4=-4341/0, 4-5=-5549/0, 5-6=-6295/0, 6-7=-6295/0, 7-8=-6191/0, 8-9=-5565/0, 9-10=-4337/0, 10-11=-2518/0
BOT CHORD 23-24=0/1443, 22-23=0/3567, 20-22=0/5087, 19-20=0/6010, 18-19=0/6295, 17-18=0/6295, 16-17=0/6031, 15-16=0/5081, 14-15=0/3569, 13-14=0/1442
WEBS 11-13=-2040/0, 2-24=-2041/0, 11-14=0/1599, 2-23=0/1597, 10-14=-1563/0, 3-23=-1561/0, 10-15=0/1142, 3-22=0/1150, 9-15=-1107/0, 4-22=-1109/0, 9-16=0/719, 4-20=0/688, 8-16=-692/0, 5-20=-686/0, 8-17=-33/458, 5-19=-79/757, 7-17=-520/234, 6-19=-333/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F22	Floor	5	1	I50651239
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:32 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-s4IEj1iidtj_LgcNnh8khgIalXBJaecWhYCTGCzd035

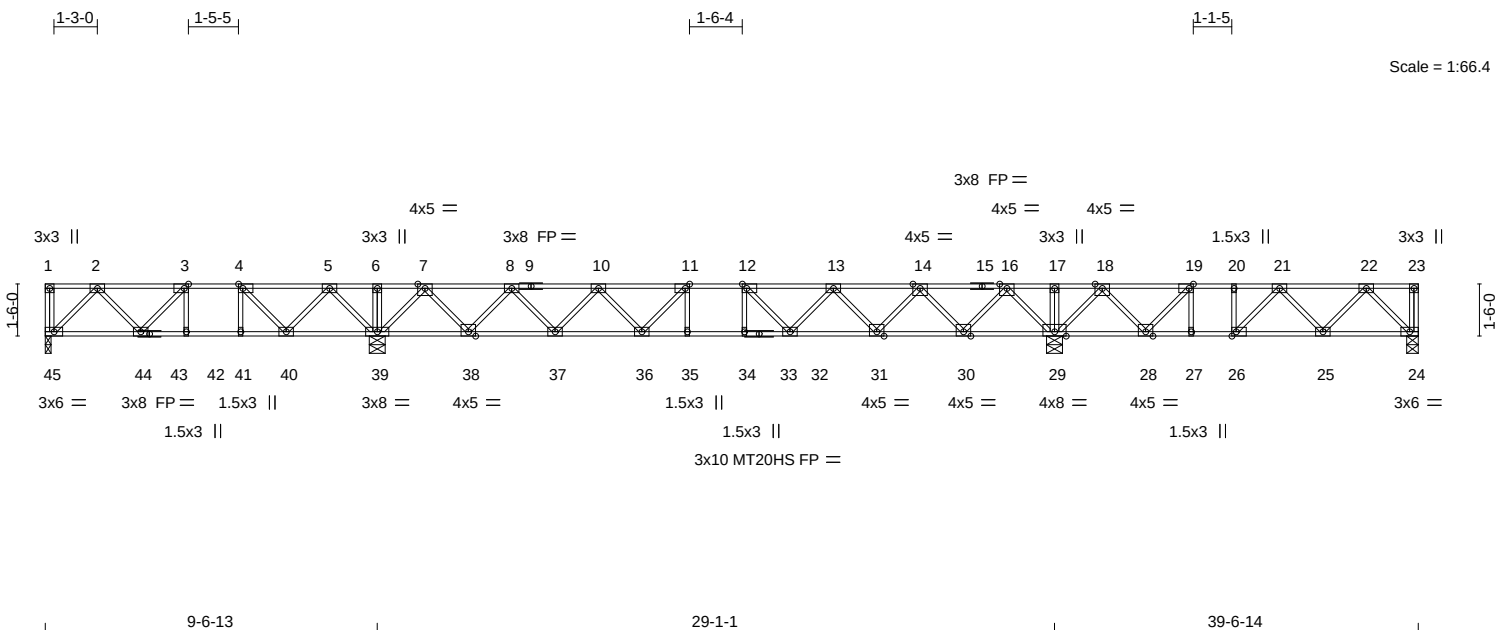

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.16	35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.25	35	>937	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 215 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 15-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 45=0-2-0, 24=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 45, 24
Max Grav All reactions 250 lb or less at joint(s) except 45=494(LC 5), 24=539(LC 5), 39=2141(LC 3), 29=2290(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-584/167, 3-4=-646/457, 4-5=-221/927, 5-6=0/1933, 6-7=0/1933, 7-8=-361/49, 8-10=-1676/0, 10-11=-2385/0, 11-12=-2591/0, 12-13=-2309/0, 13-14=-1477/0, 16-17=0/2241, 17-18=0/2241, 18-19=-176/1185, 19-20=-681/685, 20-21=-681/685, 21-22=-686/145
BOT CHORD 44-45=-14/454, 42-44=-457/646, 41-42=-457/646, 40-41=-457/646, 39-40=-1287/0, 38-39=-766/0, 37-38=0/1156, 36-37=0/2173, 35-36=0/2591, 34-35=0/2591, 32-34=0/2591, 31-32=0/2033, 30-31=0/895, 29-30=-1020/0, 28-29=-1593/0, 27-28=-685/681, 26-27=-685/681, 25-26=-315/840, 24-25=-41/484
WEBS 2-45=-641/20, 5-39=-1101/0, 5-40=0/784, 3-44=-90/420, 4-40=-949/0, 3-42=-314/0, 4-41=0/339, 16-29=-1736/0, 7-39=-1653/0, 16-30=0/1332, 7-38=0/1251, 14-30=-1309/0, 8-38=-1227/0, 14-31=0/893, 8-37=0/815, 13-31=-853/0, 10-37=-779/0, 13-32=0/459, 10-36=0/394, 12-32=-549/0, 11-36=-453/0, 22-24=-684/58, 18-29=-1220/0, 22-25=-156/301, 18-28=0/920, 21-25=-229/252, 19-28=-1065/0, 21-26=-641/0, 19-27=0/311, 20-26=0/250

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 45.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 45, 24.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F23	Floor	2	1	I50651240
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:34 2022 Page 1
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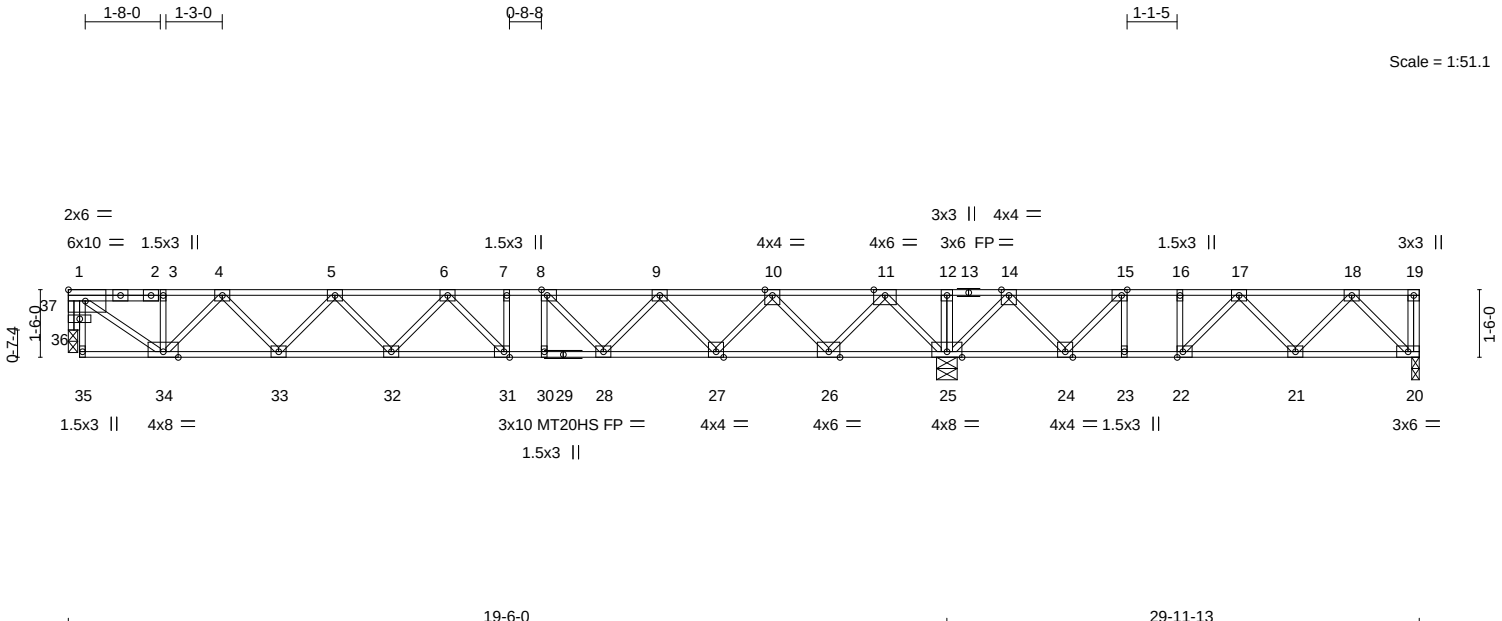

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [15:0-1-8,Edge], [22:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.20	31-32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.32	31-32	>734	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	25	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 13-19: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 20-29: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-34: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 25=0-5-8, 37=0-2-8
Max Uplift 20=-60(LC 3)
Max Grav 20=517(LC 4), 25=2459(LC 1), 37=1066(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1376/0, 3-4=-1373/0, 4-5=-2576/0, 5-6=-3197/0, 6-7=-3180/0, 7-8=-3180/0, 8-9=-2739/0, 9-10=-1659/0, 10-11=0/352, 11-12=0/2583, 12-14=0/2583, 14-15=-56/1422, 15-16=-591/863, 16-17=-591/863, 17-18=-646/224
BOT CHORD	33-34=0/2104, 32-33=0/3029, 31-32=0/3326, 30-31=0/3180, 28-30=0/3180, 27-28=0/2332, 26-27=0/957, 25-26=-1227/0, 24-25=-1873/0, 23-24=-863/591, 22-23=-863/591, 21-22=-435/779, 20-21=-83/462
WEBS	1-34=0/1553, 4-34=-1059/0, 4-33=0/701, 5-33=-674/0, 5-32=0/259, 6-31=-443/135, 11-25=-1917/0, 11-26=0/1508, 10-26=-1485/0, 10-27=0/1063, 9-27=-1021/0, 9-28=0/652, 8-28=-748/0, 14-25=-1271/0, 14-24=0/982, 15-24=-1149/0, 15-23=0/345, 18-20=-654/117, 18-21=-209/274, 17-21=-197/314, 17-22=-732/0, 16-22=0/290, 1-37=-1093/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20, 37.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F24	Floor	1	1	I50651241
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:36 2022 Page 1
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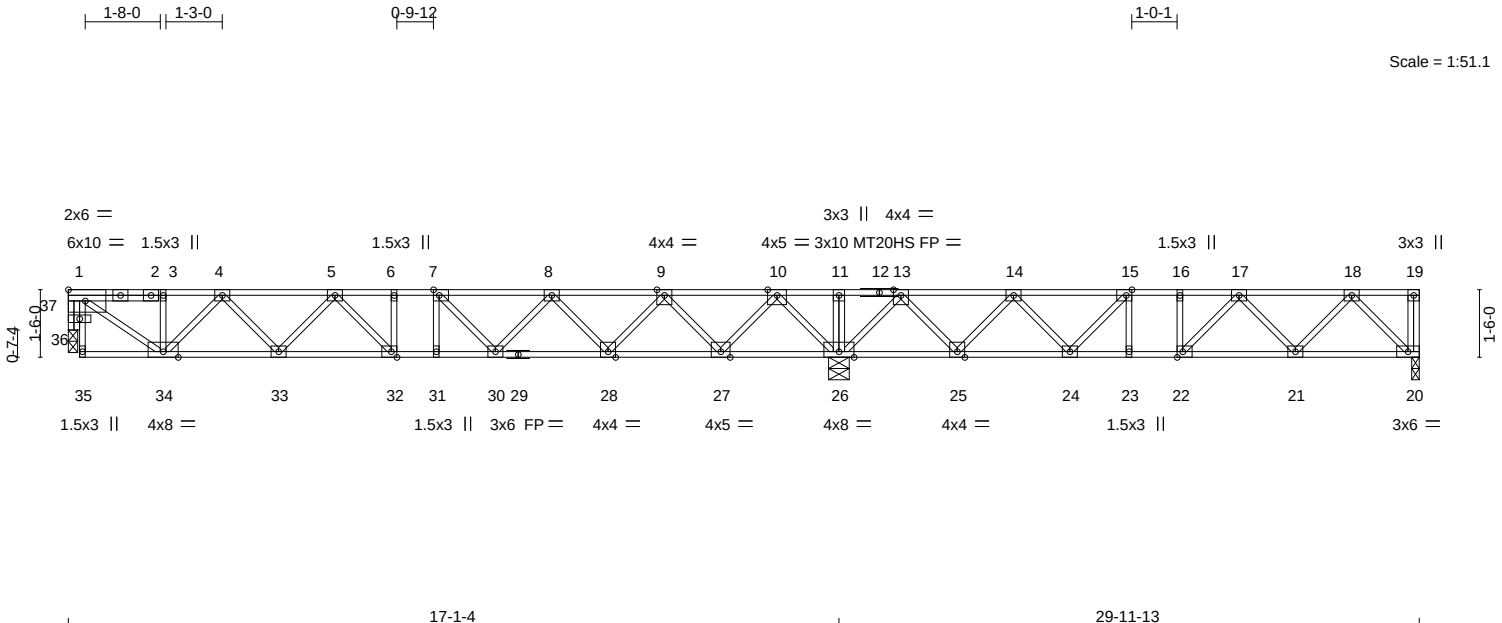

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [15:0-1-8,Edge], [22:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.12	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.18	31	>999	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-34: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 26=0-5-8, 37=0-2-8
Max Grav 20=673(LC 4), 26=2403(LC 1), 37=918(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1165/0, 3-4=-1162/0, 4-5=-2090/0, 5-6=-2464/0, 6-7=-2464/0, 7-8=-2228/0, 8-9=-1446/0, 9-10=-58/553, 10-11=0/2473, 11-13=0/2473, 13-14=-82/1113, 14-15=-955/490, 15-16=-1249/171, 16-17=-1249/171, 17-18=-933/0
BOT CHORD	33-34=0/1758, 32-33=0/2399, 31-32=0/2464, 30-31=0/2464, 28-30=0/1979, 27-28=-182/891, 26-27=-1248/0, 25-26=-1488/0, 24-25=-764/663, 23-24=-171/1249, 22-23=-171/1249, 21-22=0/1219, 20-21=0/617
WEBS	1-34=0/1309, 4-34=-863/0, 4-33=0/493, 5-33=-460/0, 10-26=-1732/0, 10-27=0/1322, 9-27=-1294/0, 9-28=0/878, 8-28=-842/0, 8-30=0/491, 7-30=-546/0, 13-26=-1443/0, 13-25=0/1044, 14-25=-1008/0, 14-24=0/607, 15-24=-707/0, 18-20=-872/0, 18-21=-4/470, 17-21=-425/77, 17-22=-358/44, 1-37=-943/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20, 37.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F25	Floor	3	1	I50651242
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:37 2022 Page 1
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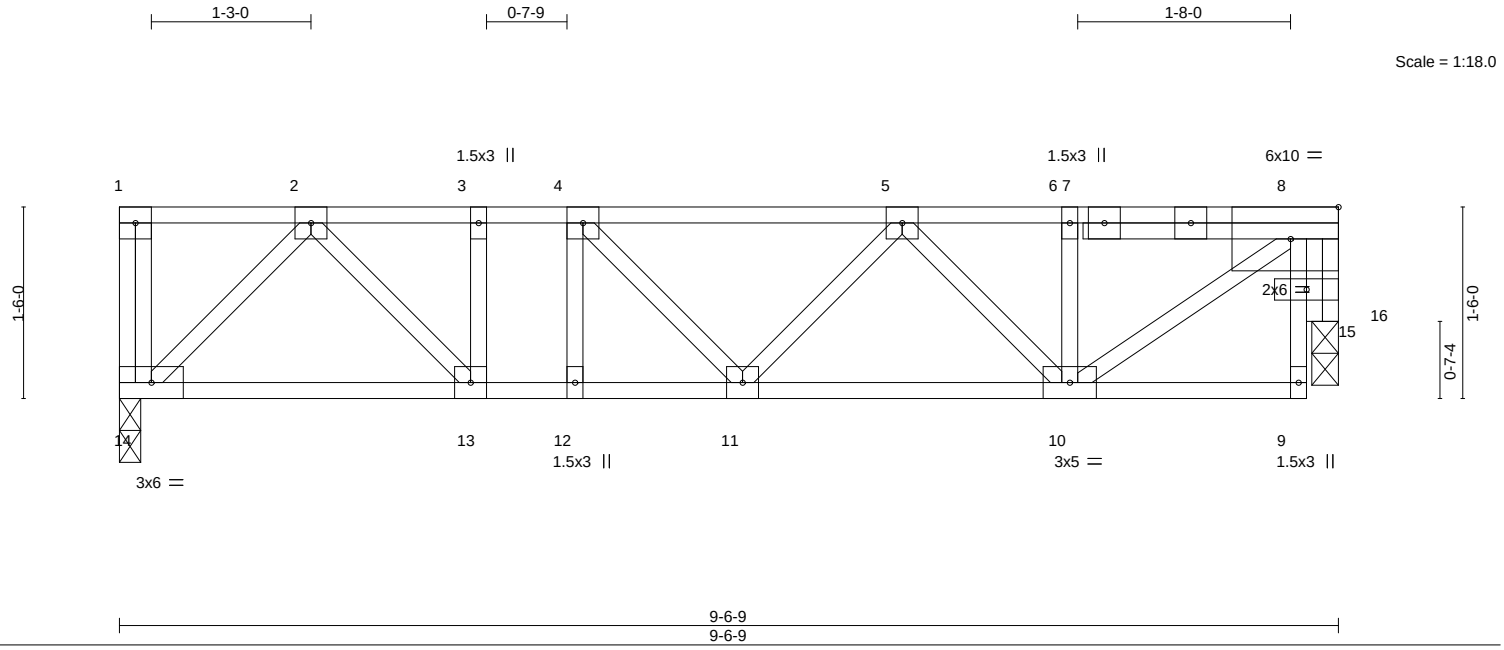

Plate Offsets (X,Y)-- [8:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.05	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 16=0-2-8
Max Grav 14=603(LC 1), 16=581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-911/0, 3-4=-911/0, 4-5=-982/0, 5-6=-677/0, 6-8=-680/0
BOT CHORD	13-14=0/530, 12-13=0/911, 11-12=0/911, 10-11=0/975
WEBS	8-10=0/748, 2-14=-750/0, 2-13=0/551, 5-10=-432/0, 8-16=-599/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 16.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F26	Floor	2	1	I50651243
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:39 2022 Page 1
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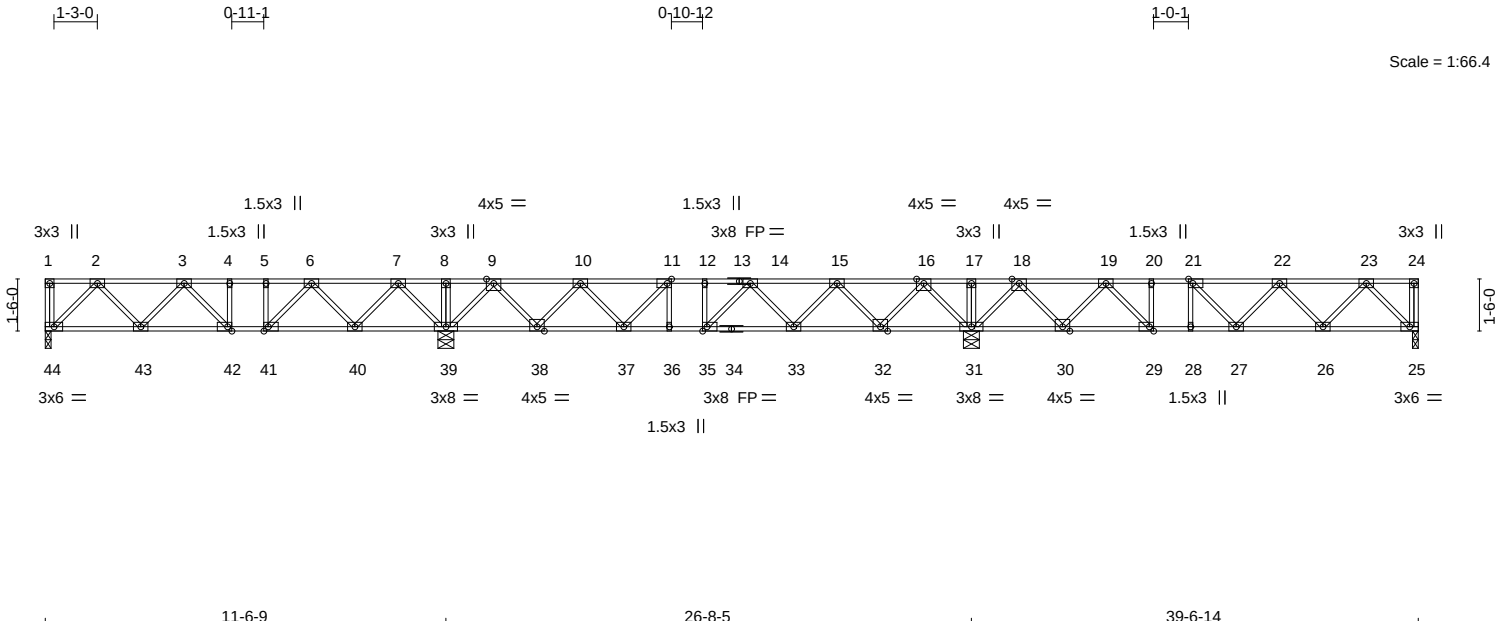

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [21:0-1-8,Edge], [29:0-1-8,Edge], [35:0-1-8,Edge], [41:0-1-8,Edge], [42:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.11	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	25	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 217 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 39=0-5-8, 31=0-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 44=640(LC 5), 25=726(LC 5), 39=1945(LC 3), 31=2036(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-874/0, 3-4=-1107/20, 4-5=-1107/20, 5-6=-1107/20, 6-7=-404/536, 7-8=0/1536, 8-9=0/1536, 9-10=-297/274, 10-11=-1161/0, 11-12=-1448/0, 12-14=-1448/0, 14-15=-1149/0, 15-16=-264/342, 16-17=0/1626, 17-18=0/1626, 18-19=-459/544, 19-20=-1380/0, 20-21=-1380/0, 21-22=-1433/0, 22-23=-1039/0
BOT CHORD 43-44=0/585, 42-43=0/1125, 41-42=-20/1107, 40-41=-264/855, 39-40=-813/0, 38-39=-598/0, 37-38=-66/874, 36-37=0/1448, 35-36=0/1448, 33-35=0/1419, 32-33=-116/850, 31-32=-677/0, 30-31=-839/0, 29-30=-246/1001, 28-29=0/1380, 27-28=0/1380, 26-27=0/1398, 25-26=0/661
WEBS 2-44=-827/0, 7-39=-1210/0, 2-43=0/430, 7-40=0/794, 3-43=-373/24, 6-40=-794/0, 3-42=-299/0, 6-41=0/604, 5-41=-299/0, 16-31=-1342/0, 9-39=-1326/0, 16-32=0/950, 9-38=0/933, 15-32=-925/0, 10-38=-902/0, 15-33=0/494, 10-37=0/477, 14-33=-459/0, 11-37=-481/0, 14-35=-112/251, 23-25=-935/0, 18-31=-1314/0, 23-26=0/562, 18-30=0/888, 22-26=-534/0, 19-30=-918/0, 19-29=0/758, 21-27=0/320, 20-29=-309/0, 21-28=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 44, 25.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F27	Floor	3	1	I50651244
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:41 2022 Page 1
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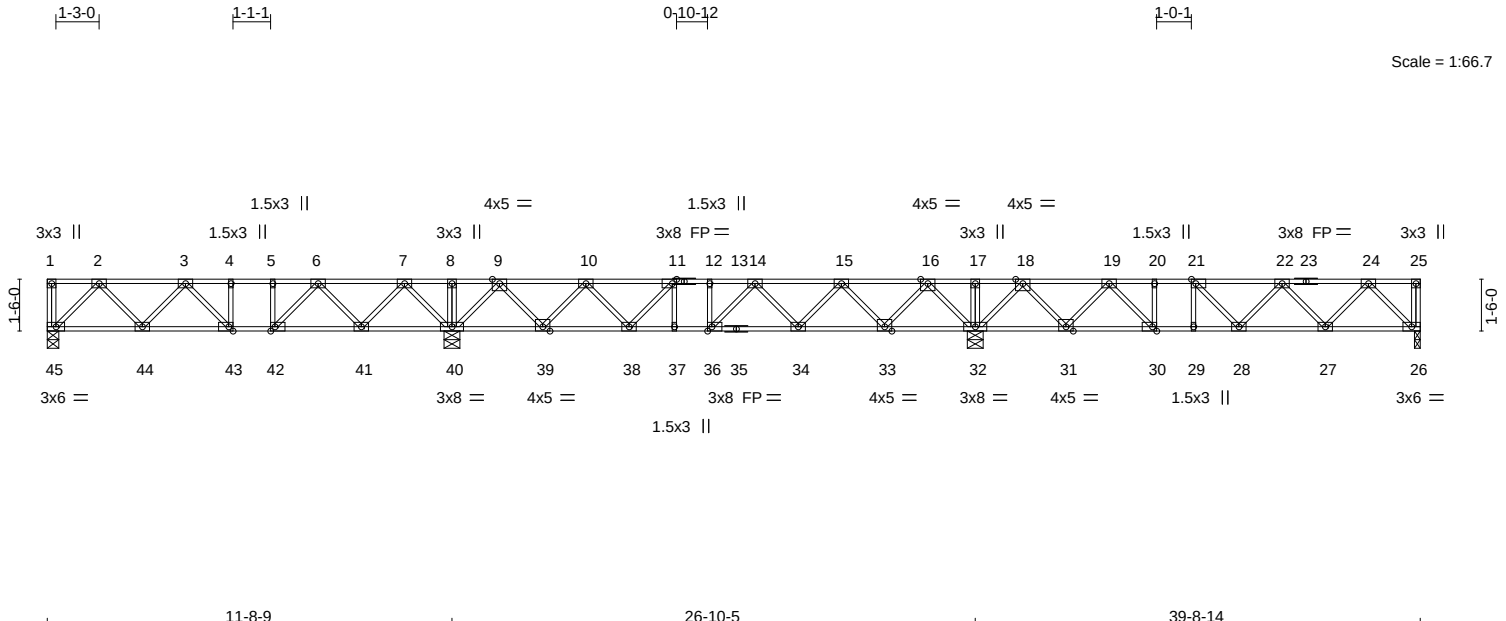

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [21:0-1-8,Edge], [30:0-1-8,Edge], [36:0-1-8,Edge], [42:0-1-8,Edge], [43:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.11	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 218 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 45=0-4-0, 26=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 45=654(LC 5), 26=726(LC 5), 40=1944(LC 3), 32=2040(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-900/0, 3-4=-1155/0, 4-5=-1155/0, 5-6=-1155/0, 6-7=-429/502, 7-8=0/1497, 8-9=0/1497, 9-10=-329/266, 10-11=-1185/0, 11-13=-1466/0, 13-14=-1466/0, 14-15=-1158/0, 15-16=-266/342, 16-17=0/1632, 17-18=0/1632, 18-19=-458/548, 19-20=-1380/0, 20-21=-1380/0, 21-22=-1432/0, 22-24=-1039/0
BOT CHORD 44-45=0/599, 43-44=0/1163, 42-43=0/1155, 41-42=-233/888, 40-41=-776/0, 39-40=-564/0, 38-39=-59/902, 37-38=0/1466, 36-37=0/1466, 34-36=0/1432, 33-34=-115/856, 32-33=-679/0, 31-32=-844/0, 30-31=-250/1000, 29-30=0/1380, 28-29=0/1380, 27-28=0/1398, 26-27=0/661
WEBS 2-45=-846/0, 7-40=-1215/0, 2-44=0/449, 7-41=0/797, 3-44=-390/11, 6-41=-801/0, 3-43=-281/0, 6-42=0/622, 5-42=-312/0, 16-32=-1348/0, 9-40=-1321/0, 16-33=0/956, 9-39=0/927, 15-33=-930/0, 10-39=-897/0, 15-34=0/499, 10-38=0/472, 14-34=-465/0, 11-38=-474/0, 14-36=-108/257, 24-26=-934/0, 18-32=-1315/0, 24-27=0/562, 18-31=0/889, 22-27=-533/0, 19-31=-919/0, 19-30=0/759, 21-28=0/322, 20-30=-309/0, 21-29=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F28	Floor	3	1	I50651245
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:43 2022 Page 1
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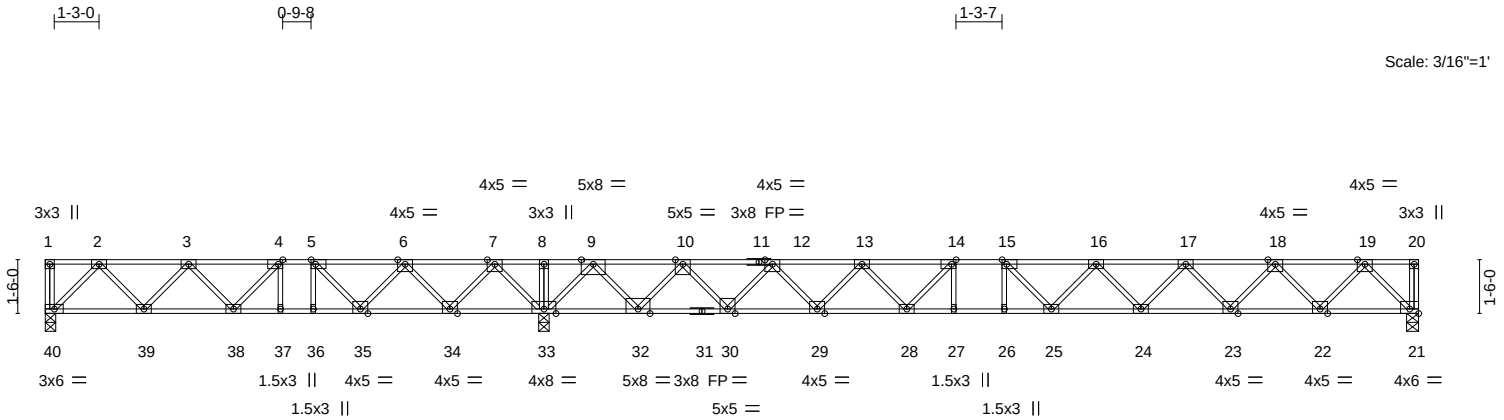

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.39	25-26	>741	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.62	25-26	>469	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 40=0-3-8, 21=0-4-0, 33=0-3-8
Max Uplift 40=-50(LC 4)
Max Grav 40=678(LC 3), 21=1354(LC 4), 33=3170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-947/222, 3-4=-1253/677, 4-5=-1171/1108, 5-6=-700/1680, 6-7=0/2677, 7-8=0/4408, 8-9=0/4408, 9-10=0/1298, 10-12=-1491/0, 12-13=-3258/0, 13-14=-4426/0, 14-15=-4982/0, 15-16=-5082/0, 16-17=-4730/0, 17-18=-3775/0, 18-19=-2231/0
BOT CHORD 39-40=-83/613, 38-39=-378/1261, 37-38=-1108/1171, 36-37=-1108/1171, 35-36=-1108/1171, 34-35=-2151/282, 33-34=-3235/0, 32-33=-2664/0, 30-32=-420/450, 29-30=0/2512, 28-29=0/3971, 27-28=0/4982, 26-27=0/4982, 25-26=0/4982, 24-25=0/5066, 23-24=0/4381, 22-23=0/3145, 21-22=0/1292
WEBS 2-40=-867/118, 7-33=-1783/0, 2-39=-206/497, 7-34=0/1361, 3-39=-466/232, 6-34=-1316/0, 3-38=-466/0, 6-35=0/949, 4-38=0/710, 5-35=-1145/0, 4-37=-456/0, 5-36=0/472, 19-21=-1827/0, 9-33=-2467/0, 19-22=0/1396, 9-32=0/2031, 18-22=-1359/0, 10-32=-2001/0, 18-23=0/937, 10-30=0/1584, 17-23=-901/0, 12-30=-1554/0, 17-24=0/519, 12-29=0/1145, 16-24=-500/0, 13-29=-1094/0, 13-28=0/796, 15-25=-231/514, 14-28=-1048/0, 14-27=-21/454, 15-26=-431/44

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 40.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F29	Floor	1	1	I50651246
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:44 2022 Page 1
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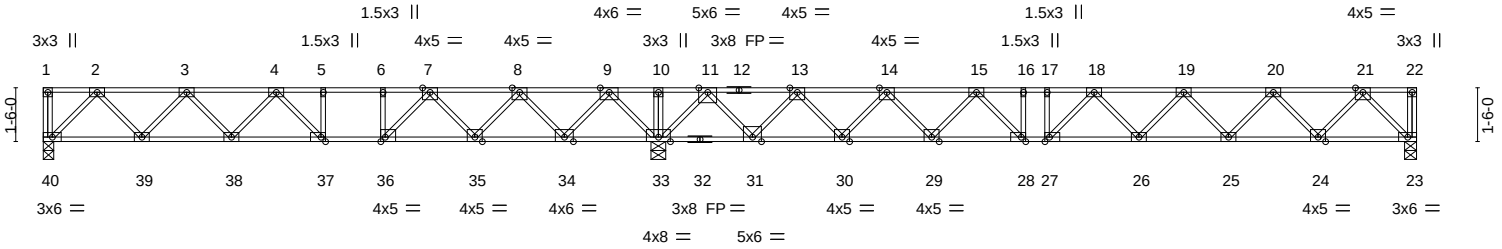
Scale: 3/16"=1'



17-2-0 38-3-15
17-2-0 21-1-15

Plate Offsets (X,Y)-- [27:0-1-8,Edge], [28:0-1-8,Edge], [36:0-1-8,Edge], [37:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.26	26-27	>960	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.40	26-27	>627	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	23	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-22: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 40=0-3-8, 23=0-4-0, 33=0-4-15
Max Grav 40=922(LC 3), 23=1164(LC 4), 33=3046(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1405/0, 3-4=-2182/0, 4-5=-2258/238, 5-6=-2258/238, 6-7=-2258/238, 7-8=-1235/1086, 8-9=0/1936, 9-10=0/3870, 10-11=0/3870, 11-13=0/1338, 13-14=-1485/260, 14-15=-2815/0, 15-16=-3664/0, 16-17=-3664/0, 17-18=-3664/0, 18-19=-3682/0, 19-20=-3069/0, 20-21=-1870/0
BOT CHORD 39-40=0/860, 38-39=0/1934, 37-38=0/2372, 36-37=-238/2258, 35-36=-693/1801, 34-35=-1455/679, 33-34=-2558/0, 31-33=-2334/0, 30-31=-654/652, 29-30=0/2291, 28-29=0/3331, 27-28=0/3664, 26-27=0/3811, 25-26=0/3512, 24-25=0/2609, 23-24=0/1104
WEBS 2-40=-1216/0, 9-33=-1888/0, 2-39=0/810, 9-34=0/1494, 3-39=-786/0, 8-34=-1445/0, 3-38=-67/369, 8-35=0/985, 4-38=-282/172, 7-35=-1037/0, 4-37=-661/0, 7-36=0/1118, 5-37=0/266, 6-36=-557/0, 21-23=-1561/0, 11-33=-2173/0, 21-24=0/1139, 11-31=0/1749, 20-24=-1099/0, 13-31=-1723/0, 20-25=0/684, 13-30=0/1310, 19-25=-659/0, 14-30=-1267/0, 19-26=0/252, 14-29=0/846, 15-29=-842/0, 18-27=-539/69, 15-28=0/771, 16-28=-350/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F30	Floor	1	1	I50651247
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:47 2022 Page 1
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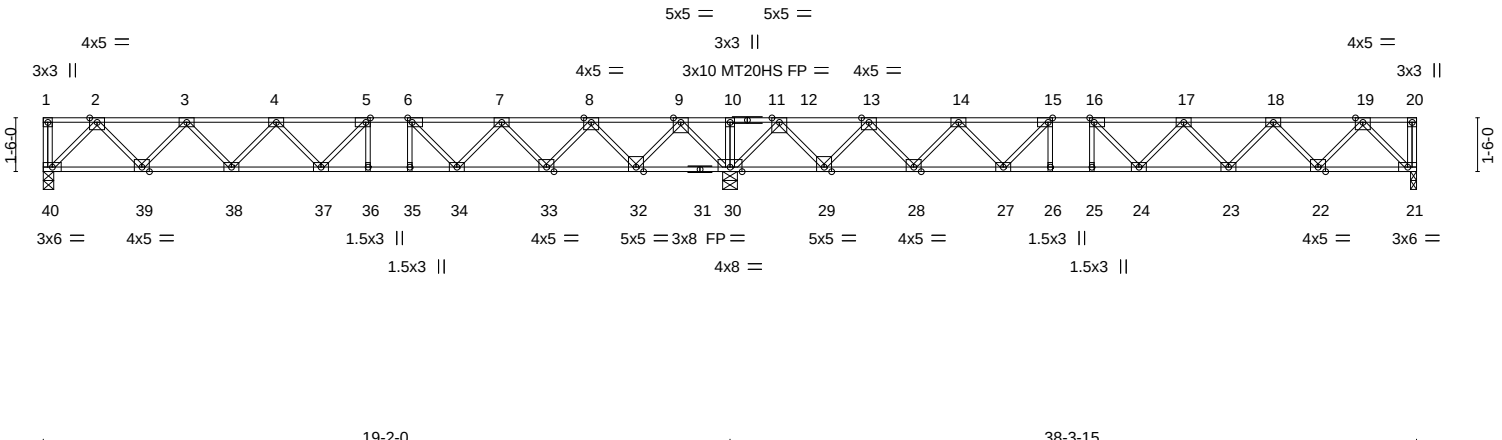

19-2-0 38-3-15
19-2-0 19-1-15

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.18	36-37	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.27	36-37	>841	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 40=0-3-8, 21=0-2-0, 30=0-4-15
Max Grav 40=1045(LC 3), 21=1044(LC 4), 30=3033(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1641/0, 3-4=-2628/0, 4-5=-3006/0, 5-6=-2955/0, 6-7=-2479/25, 7-8=-1396/658, 8-9=0/1525, 9-10=0/3824, 10-12=0/3824, 12-13=0/1526, 13-14=-1396/659, 14-15=-2478/26, 15-16=-2953/0, 16-17=-3004/0, 17-18=-2627/0, 18-19=-1640/0
BOT CHORD 39-40=0/985, 38-39=0/2269, 37-38=0/2973, 36-37=0/2955, 35-36=0/2955, 34-35=0/2955, 33-34=-307/2068, 32-33=-1041/694, 30-32=-2397/0, 29-30=-2397/0, 28-29=-1042/694, 27-28=-308/2068, 26-27=0/2953, 25-26=0/2953, 24-25=0/2953, 23-24=0/2971, 22-23=0/2268, 21-22=0/985
WEBS 2-40=-1394/0, 9-30=-2018/0, 2-39=0/974, 9-32=0/1608, 3-39=-934/0, 8-32=-1586/0, 3-38=0/534, 8-33=0/1158, 4-38=-512/0, 7-33=-1107/0, 7-34=0/779, 5-37=-25/486, 6-34=-973/0, 5-36=-383/0, 6-35=0/401, 19-21=-1393/0, 12-30=-2018/0, 19-22=0/974, 12-29=0/1607, 18-22=-933/0, 13-29=-1586/0, 18-23=0/534, 13-28=0/1158, 17-23=-512/0, 14-28=-1106/0, 14-27=0/778, 16-24=-25/486, 15-27=-971/0, 15-26=0/401, 16-25=-382/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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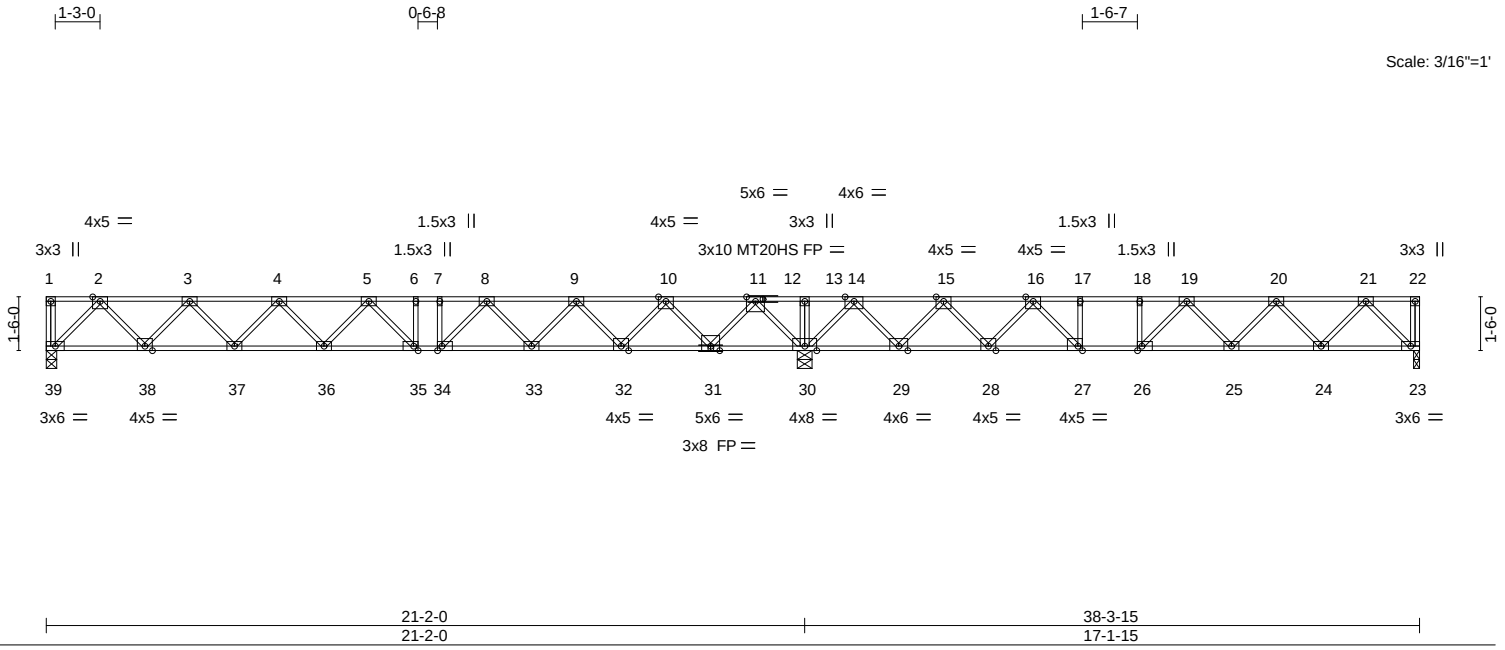
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F31	Floor	1	1	I50651248
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:49 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-sLqfIrvNd5sauHPeGmxjtGVT7O?Q3Hl0ciqtMjzd02q



21-2-0 38-3-15
21-2-0 17-1-15

Plate Offsets (X,Y)-- [26:0-1-8,Edge], [27:0-1-8,Edge], [34:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.25	35-36	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.38	35-36	>660	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	30	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 39=0-3-8, 23=0-2-0, 30=0-4-15
Max Grav 39=1170(LC 3), 23=922(LC 4), 30=3036(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1881/0, 3-4=-3091/0, 4-5=-3714/0, 5-6=-3710/0, 6-7=-3710/0, 7-8=-3710/0, 8-9=-2871/0, 9-10=-1551/255, 10-11=0/1309, 11-13=0/3805, 13-14=0/3805, 14-15=0/1865, 15-16=-1237/1026, 16-17=-2258/197, 17-18=-2258/197, 18-19=-2258/197, 19-20=-2182/0, 20-21=-1405/0
BOT CHORD 38-39=0/1109, 37-38=0/2626, 36-37=0/3540, 35-36=0/3850, 34-35=0/3710, 33-34=0/3381, 32-33=0/2352, 31-32=-649/722, 30-31=-2274/0, 29-30=-2494/0, 28-29=-1389/683, 27-28=-641/1803, 26-27=-197/2258, 25-26=0/2372, 24-25=0/1934, 23-24=0/860
WEBS 2-39=-1569/0, 11-30=-2165/0, 2-38=0/1147, 11-31=0/1745, 3-38=-1107/0, 10-31=-1719/0, 3-37=0/692, 10-32=0/1304, 4-37=-667/0, 9-32=-1262/0, 4-36=0/259, 9-33=0/841, 8-33=-834/0, 5-35=-538/74, 8-34=0/772, 7-34=-365/0, 21-23=-1216/0, 14-30=-1880/0, 21-24=0/810, 14-29=0/1487, 20-24=-786/0, 15-29=-1438/0, 20-25=-59/369, 15-28=0/978, 19-25=-283/162, 16-28=-1028/0, 19-26=-647/0, 16-27=0/1103, 17-27=-549/0, 18-26=0/260

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F32	Floor	1	1	I50651249
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:52 2022 Page 1
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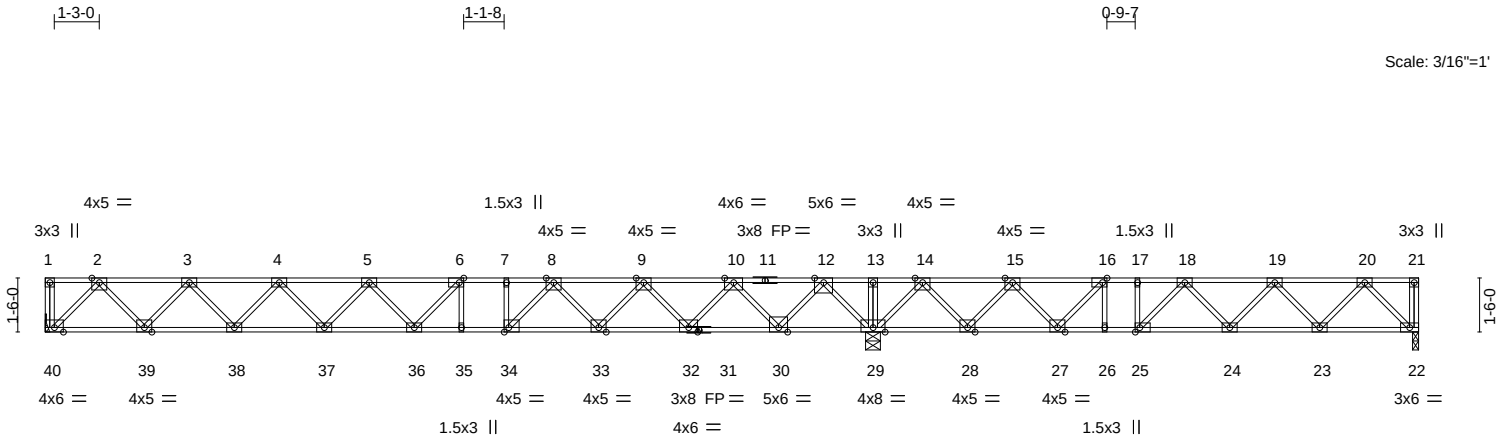

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge], [25:0-1-8,Edge], [34:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.33	35-36	>823	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.52	35-36	>527	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	29	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
22-31: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 40=Mechanical, 22=0-2-0, 29=0-4-15
Max Grav 40=1280(LC 3), 22=778(LC 4), 29=3080(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2090/0, 3-4=-3499/0, 4-5=-4320/0, 5-6=-4537/0, 6-7=-4336/0, 7-8=-4336/0, 8-9=-3146/0, 9-10=-1613/39, 10-12=0/1205, 12-13=0/4028, 13-14=0/4028, 14-15=0/2251, 15-16=-940/1341, 16-17=-1474/840, 17-18=-1474/840, 18-19=-1641/238, 19-20=-1132/16
BOT CHORD 39-40=0/1218, 38-39=0/2937, 37-38=0/4037, 36-37=0/4593, 35-36=0/4336, 34-35=0/4336, 33-34=0/3800, 32-33=0/2524, 30-32=-459/665, 29-30=-2382/0, 28-29=-2816/0, 27-28=-1766/461, 26-27=-840/1474, 25-26=-840/1474, 24-25=-448/1710, 23-24=-84/1527, 22-23=0/717
WEBS 2-40=-1722/0, 12-29=-2327/0, 2-39=0/1296, 12-30=0/1894, 3-39=-1259/0, 10-30=-1872/0, 3-38=0/836, 10-32=0/1461, 4-38=-800/0, 9-32=-1402/0, 4-37=0/421, 9-33=0/972, 5-37=-406/0, 8-33=-1029/0, 5-36=-314/132, 8-34=0/1049, 6-36=-72/612, 6-35=-434/0, 7-34=-398/0, 20-22=-1013/0, 14-29=-1796/0, 20-23=-75/617, 14-28=0/1373, 19-23=-588/101, 15-28=-1330/0, 15-27=0/963, 18-24=-102/312, 16-27=-1116/0, 18-25=-817/0, 16-26=0/358, 17-25=0/326

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

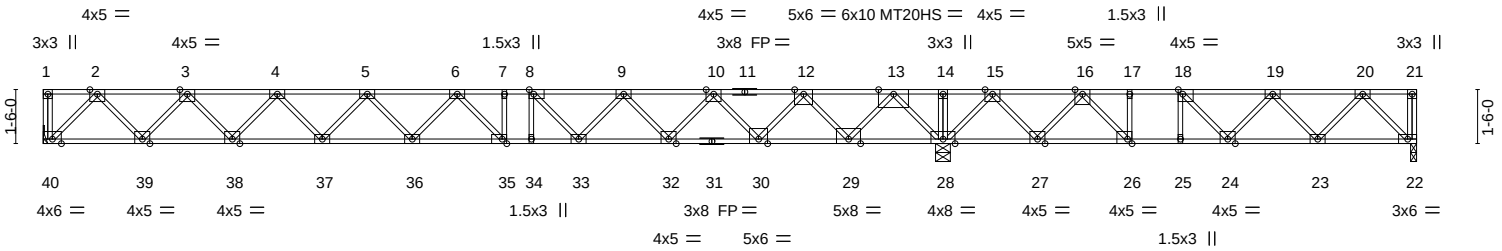
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F33	Floor	1	1	I50651250
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:54 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-DJdYLZzVRdUt_2Ib3JXuaJCMcPkVkVLlI_Xe1wzd02I

1-3-0 0-7-8 1-3-7

Scale: 3/16"=1'



25-0-0 38-1-15
25-0-0 13-1-15

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [18:0-1-8,Edge], [26:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.42	35-36	>714	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.67	35-36	>445	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.08	28	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 1-11: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 40=Mechanical, 22=0-2-0, 28=0-4-15
Max Uplift 22=-163(LC 3)
Max Grav 40=1361(LC 3), 22=620(LC 4), 28=3252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2243/0, 3-4=-3800/0, 4-5=-4760/0, 5-6=-5146/0, 6-7=-4858/0, 7-8=-4858/0, 8-9=-4272/0, 9-10=-2974/0, 10-12=-1082/0, 12-13=0/1657, 13-14=0/4863, 14-15=0/4863, 15-16=0/3247, 16-17=-805/1772, 17-18=-805/1772, 18-19=-1033/1104, 19-20=-838/435
BOT CHORD 39-40=0/1299, 38-39=0/3161, 37-38=0/4415, 36-37=0/5091, 35-36=0/5152, 34-35=0/4858, 33-34=0/4858, 32-33=0/3756, 30-32=0/2163, 29-30=-641/53, 28-29=-3070/0, 27-28=-3839/0, 26-27=-2582/209, 25-26=-1772/805, 24-25=-1772/805, 23-24=-674/1112, 22-23=-203/551
WEBS 2-40=-1837/0, 13-28=-2536/0, 2-39=0/1403, 13-29=0/2100, 3-39=-1366/0, 12-29=-2084/0, 3-38=0/949, 12-30=0/1664, 4-38=-914/0, 10-30=-1628/0, 4-37=0/513, 10-32=0/1226, 5-37=-491/0, 9-32=-1182/0, 9-33=0/845, 8-33=-998/0, 6-35=-691/74, 8-34=-37/381, 20-22=-779/287, 15-28=-1789/0, 20-23=-345/427, 15-27=0/1326, 19-23=-407/355, 16-27=-1461/0, 19-24=-642/0, 16-26=0/1553, 18-24=0/1058, 17-26=-653/0, 18-25=-582/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 22.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F34	Floor	1	1	I50651251
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:56 2022 Page 1
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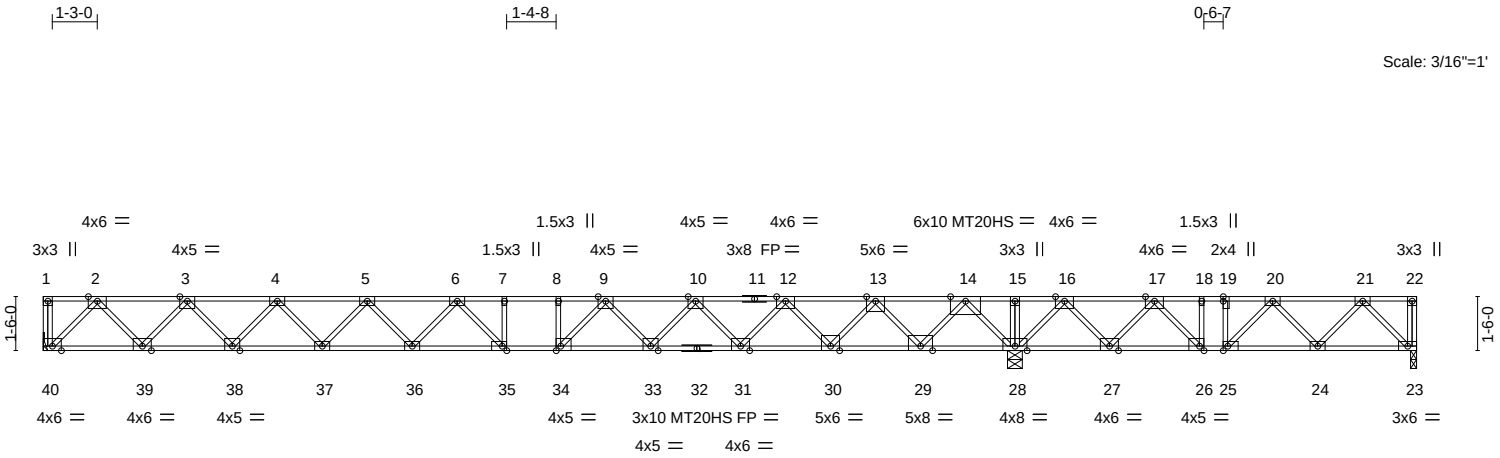

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

27-0-0
27-0-0
38-1-15
11-1-15

Plate Offsets (X,Y)-- [19:0-1-8,0-0-0], [25:0-1-8,Edge], [26:0-1-8,Edge], [34:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.50	35-36	>650	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.80	35-36	>404	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.09	28	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
23-32: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,22-23,15-28,7-35,8-34,18-26,19-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 40=Mechanical, 23=0-2-0, 28=0-4-15
Max Uplift 23=-396(LC 3)
Max Grav 40=1471(LC 3), 23=417(LC 4), 28=3455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2453/0, 3-4=-4211/0, 4-5=-5368/0, 5-6=-5966/0, 6-7=-5808/0, 7-8=-5808/0, 8-9=-5808/0, 9-10=-4596/0, 10-12=-3052/0, 12-13=-881/0, 13-14=0/2098, 14-15=0/5591, 15-16=0/5591, 16-17=0/3729, 17-18=-232/2137, 18-19=-232/2137, 19-20=-232/2137, 20-21=-453/864
BOT CHORD 39-40=0/1409, 38-39=0/3472, 37-38=0/4925, 36-37=0/5802, 35-36=0/6059, 34-35=0/5808, 33-34=0/5244, 31-33=0/3972, 30-31=0/2098, 29-30=-768/0, 28-29=-3647/0, 27-28=-4458/0, 26-27=-2977/0, 25-26=-2137/232, 24-25=-1376/499, 23-24=-419/362
WEBS 2-40=-1992/0, 14-28=-2749/0, 2-39=0/1552, 14-29=0/2303, 3-39=-1515/0, 13-29=-2280/0, 3-38=0/1099, 13-30=0/1858, 4-38=-1062/0, 12-30=-1826/0, 4-37=0/659, 12-31=0/1435, 5-37=-645/0, 10-31=-1383/0, 5-36=0/327, 10-33=0/944, 6-36=-293/97, 9-33=-981/0, 6-35=-702/206, 9-34=0/1115, 7-35=-125/288, 8-34=-550/0, 21-23=-512/593, 16-28=-1884/0, 21-24=-661/135, 16-27=0/1434, 20-24=-69/761, 17-27=-1472/0, 20-25=-1217/0, 17-26=0/1441, 18-26=-716/0, 19-25=0/585

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 23.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

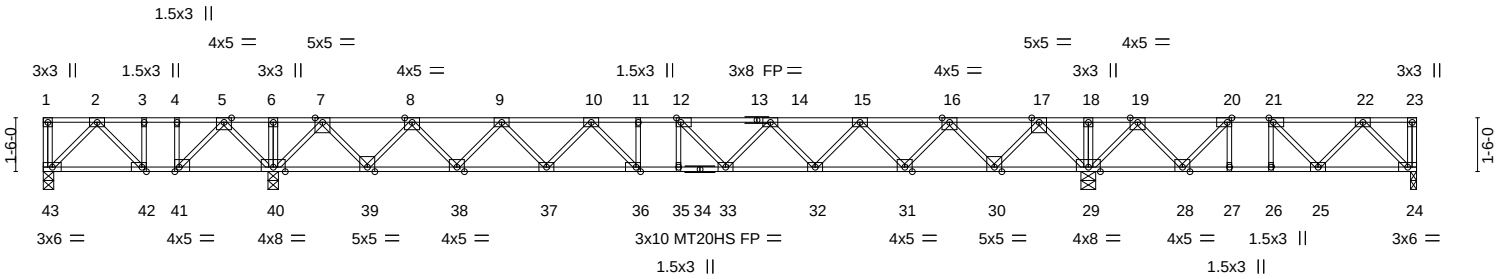
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F35	Floor	1	1	I50651252
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:00 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-2T_pbc2G1TE0izllQaeJqaSL3pn58Ggd8v_yEazd02f

1-3-0 0-9-8 1-0-0 1-0-7

Scale: 3/16"=1'



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-5-0	29-2-0	38-3-15
6-5-0	22-9-0	9-1-15

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [36:0-1-8,Edge], [41:0-1-8,Edge], [42:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.23	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.37	33-35	>733	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	29	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 211 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 24=0-2-0, 29=0-4-15.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 43=-431(LC 6), 24=-211(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 43 except 24=393(LC 5), 40=2484(LC 16), 29=2548(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1157, 3-4=0/1157, 4-5=0/1157, 5-6=0/2725, 6-7=0/2725, 7-8=0/332, 8-9=-1532/0, 9-10=-2664/0, 10-11=-3317/0, 11-12=-3317/0, 12-14=-3220/0, 14-15=-2633/0, 15-16=-1447/0, 16-17=0/547, 17-18=0/3023, 18-19=0/3023, 19-20=0/1730, 20-21=-343/1054, 21-22=-391/539
BOT CHORD 42-43=-468/100, 41-42=-1157/0, 40-41=-1977/0, 39-40=-1340/0, 38-39=0/807, 37-38=0/2234, 36-37=0/3088, 35-36=0/3317, 33-35=0/3317, 32-33=0/3077, 31-32=0/2171, 30-31=0/697, 29-30=-1613/0, 28-29=-2255/0, 27-28=-1054/343, 26-27=-1054/343, 25-26=-1054/343, 24-25=-201/355
WEBS 2-43=-141/661, 5-40=-1286/0, 2-42=-998/0, 5-41=0/1325, 3-42=0/500, 4-41=-685/0, 17-29=-1993/0, 7-40=-1963/0, 17-30=0/1584, 7-39=0/1570, 16-30=-1564/0, 8-39=-1521/0, 16-31=0/1140, 8-38=0/1104, 15-31=-1102/0, 9-38=-1069/0, 15-32=0/712, 9-37=0/651, 14-32=-685/0, 10-37=-640/0, 14-33=0/389, 10-36=-65/571, 12-33=-419/132, 22-24=-503/285, 19-29=-1309/0, 22-25=-502/53, 19-28=0/1009, 21-25=0/746, 20-28=-1224/0, 20-27=0/491, 21-26=-470/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x5 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 43 and 211 lb uplift at joint 24.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F36	Floor	1	1	I50651253
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:02 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-_r6a0l3WZ4VkxHv8X?gnv?Xl0dT2c9DwbDT3JTzd02d

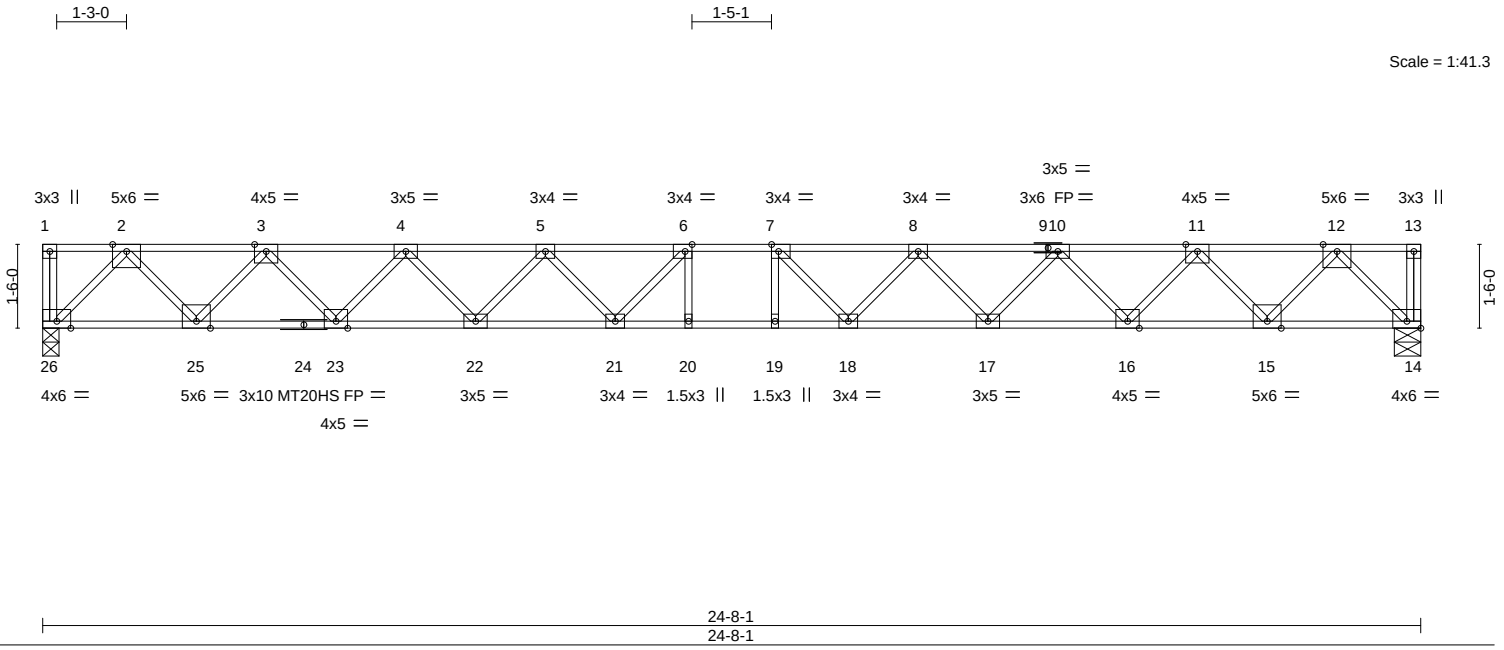

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.49	19-20	>599	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.80	19-20	>369	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.14	14	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 132 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 26=0-3-8, 14=0-5-11
Max Grav 26=1588(LC 1), 14=1588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2675/0, 3-4=-4643/0, 4-5=-6021/0, 5-6=-6798/0, 6-7=-7034/0, 7-8=-6797/0, 8-10=-6021/0, 10-11=-4641/0, 11-12=-2675/0
BOT CHORD 25-26=0/1525, 23-25=0/3799, 22-23=0/5465, 21-22=0/6553, 20-21=0/7034, 19-20=0/7034, 18-19=0/7034, 17-18=0/6553, 16-17=0/5464, 15-16=0/3800, 14-15=0/1525
WEBS 12-14=-2157/0, 2-26=-2157/0, 12-15=0/1710, 2-25=0/1710, 11-15=-1672/0, 3-25=-1671/0, 11-16=0/1251, 3-23=0/1254, 10-16=-1222/0, 4-23=-1222/0, 10-17=0/828, 4-22=0/826, 8-17=-792/0, 5-22=-792/0, 8-18=0/559, 5-21=0/560, 7-18=-692/133, 6-21=-692/133

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F37	Floor	1	1	I50651254
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:03 2022 Page 1
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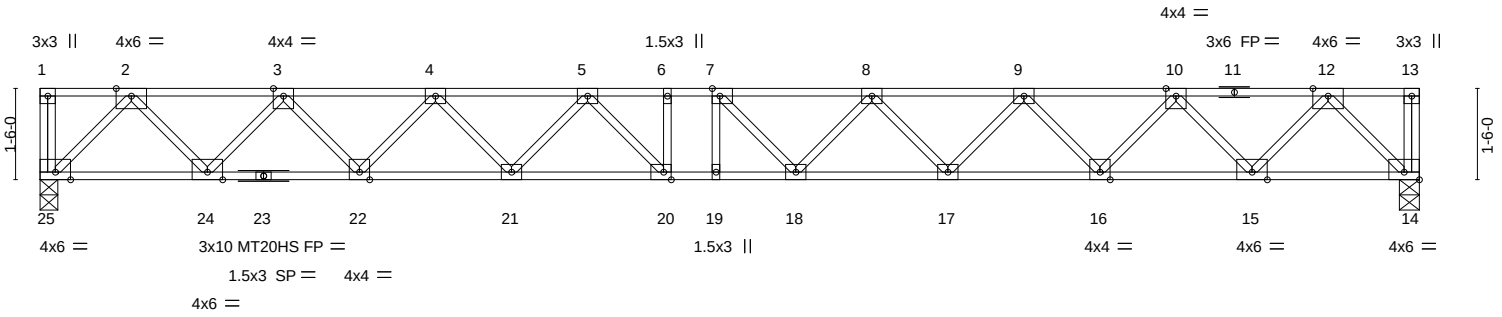

22-8-1
22-8-1

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [14:Edge,0-1-8], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.39	18-19	>685	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.64	18-19	>422	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 123 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 25=0-3-8, 14=0-3-15
Max Grav 25=1458(LC 1), 14=1458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2428/0, 3-4=-4162/0, 4-5=-5290/0, 5-6=-5916/0, 6-7=-5916/0, 7-8=-5844/0, 8-9=-5301/0, 9-10=-4160/0, 10-12=-2428/0
BOT CHORD 24-25=0/1396, 22-24=0/3434, 21-22=0/4866, 20-21=0/5705, 19-20=0/5916, 18-19=0/5916, 17-18=0/5721, 16-17=0/4862, 15-16=0/3435, 14-15=0/1395
WEBS 12-14=-1973/0, 2-25=-1974/0, 12-15=0/1535, 2-24=0/1534, 10-15=-1498/0, 3-24=-1496/0, 10-16=0/1077, 3-22=0/1083, 9-16=-1044/0, 4-22=-1047/0, 9-17=0/653, 4-21=0/630, 8-17=-624/0, 5-21=-617/0, 8-18=-79/384, 5-20=-116/593, 7-18=-411/228, 7-19=-261/107

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F38	Floor	1	1	I50651255
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:04 2022 Page 1
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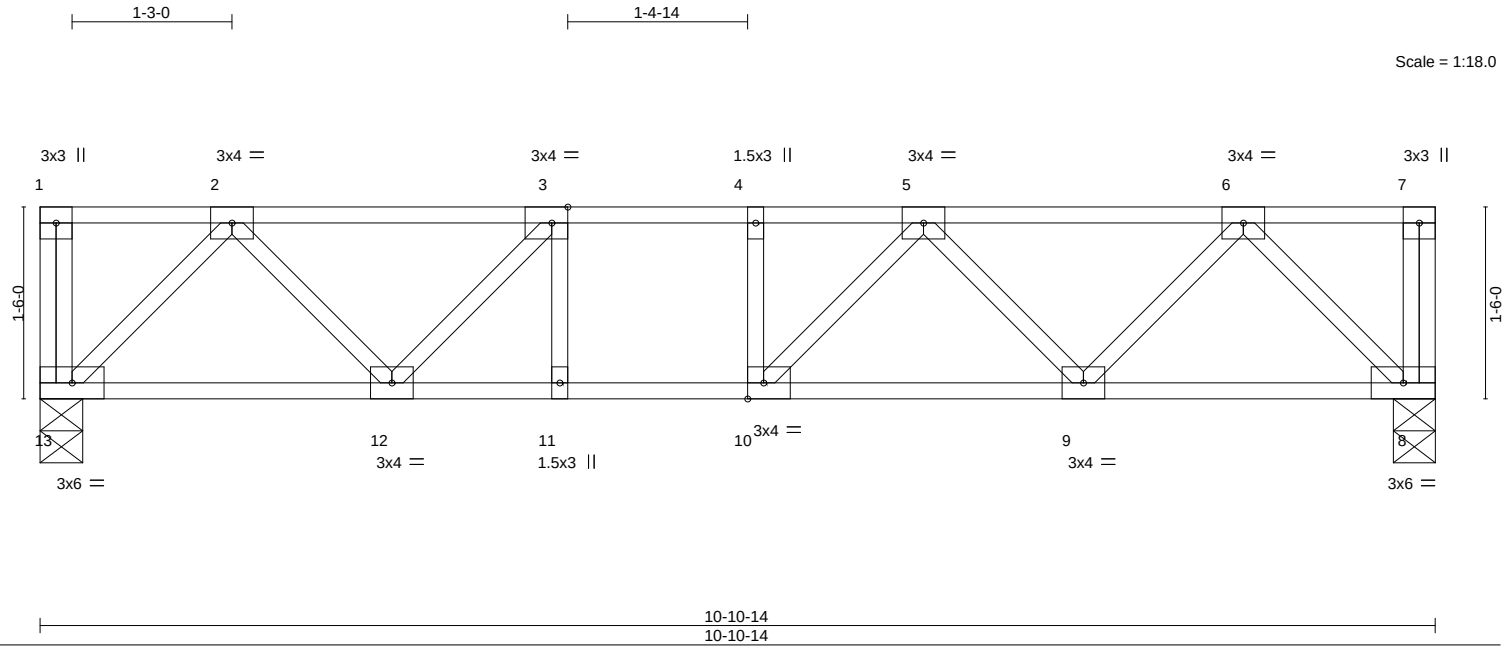

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 8=0-3-15
Max Grav 13=693(LC 1), 8=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-969/0, 3-4=-1315/0, 4-5=-1315/0, 5-6=-972/0
BOT CHORD	12-13=0/632, 11-12=0/1315, 10-11=0/1315, 9-10=0/1273, 8-9=0/637
WEBS	6-8=-901/0, 2-13=-894/0, 6-9=0/499, 2-12=0/500, 5-9=-446/0, 3-12=-508/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F39	Floor	1	1	I50651256
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:05 2022 Page 1
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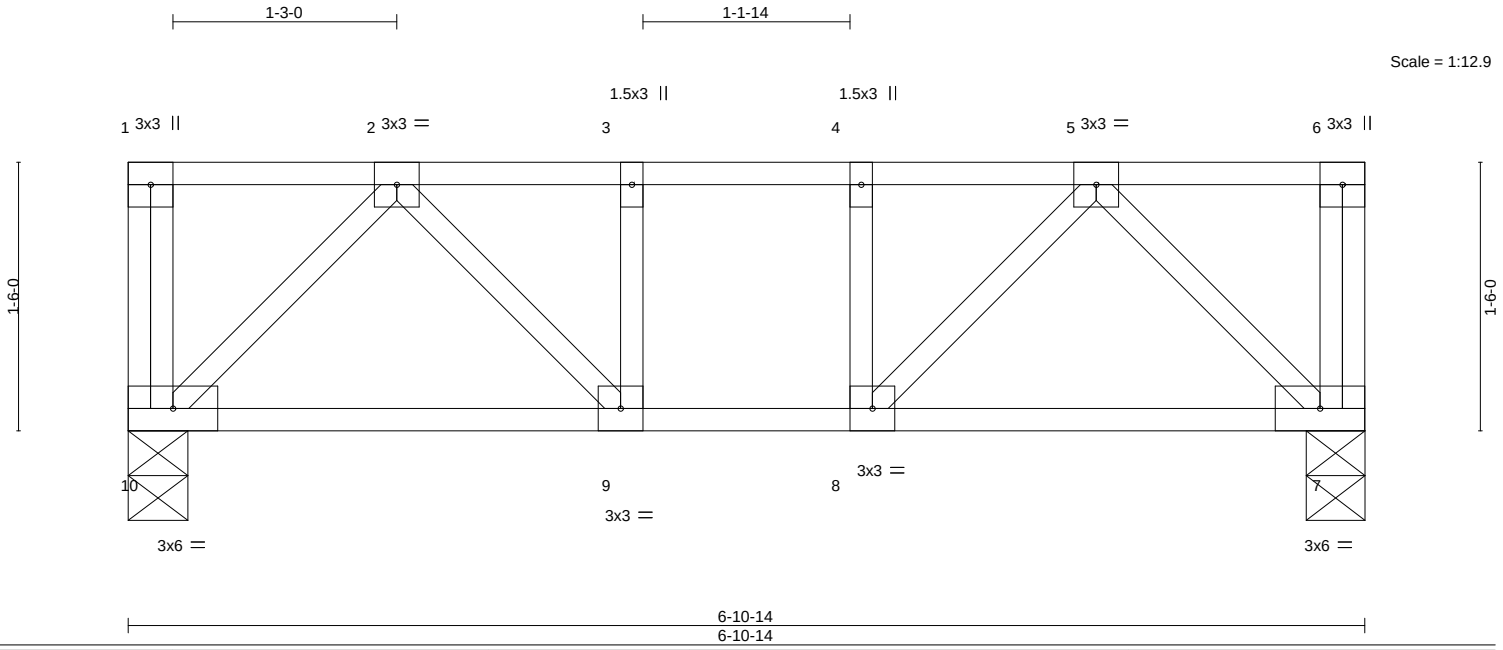

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-3-15
Max Grav 10=433(LC 1), 7=433(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-517/0, 3-4=-517/0, 4-5=-517/0
BOT CHORD	9-10=0/354, 8-9=0/517, 7-8=0/354
WEBS	5-7=-501/0, 2-10=-501/0, 5-8=0/267, 2-9=0/267

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F40	Floor	1	1	I50651257
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:07 2022 Page 1
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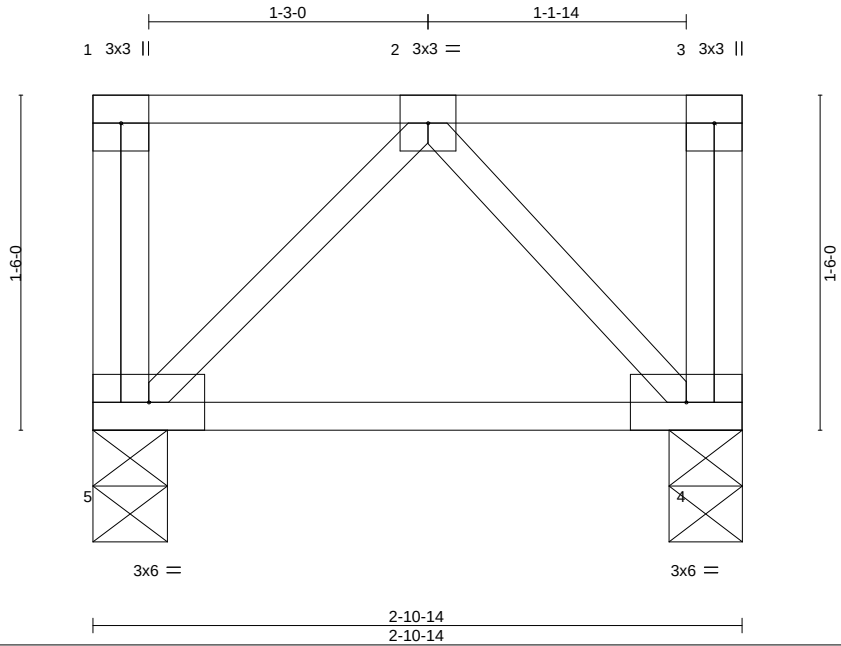

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=0-3-15
Max Grav 5=173(LC 1), 4=173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F41	Floor	3	1	I50651258
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:08 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-p?TrHL8H8wFufCMHuFnB8Gnp42WZ0xLpz9wNX7zd02X

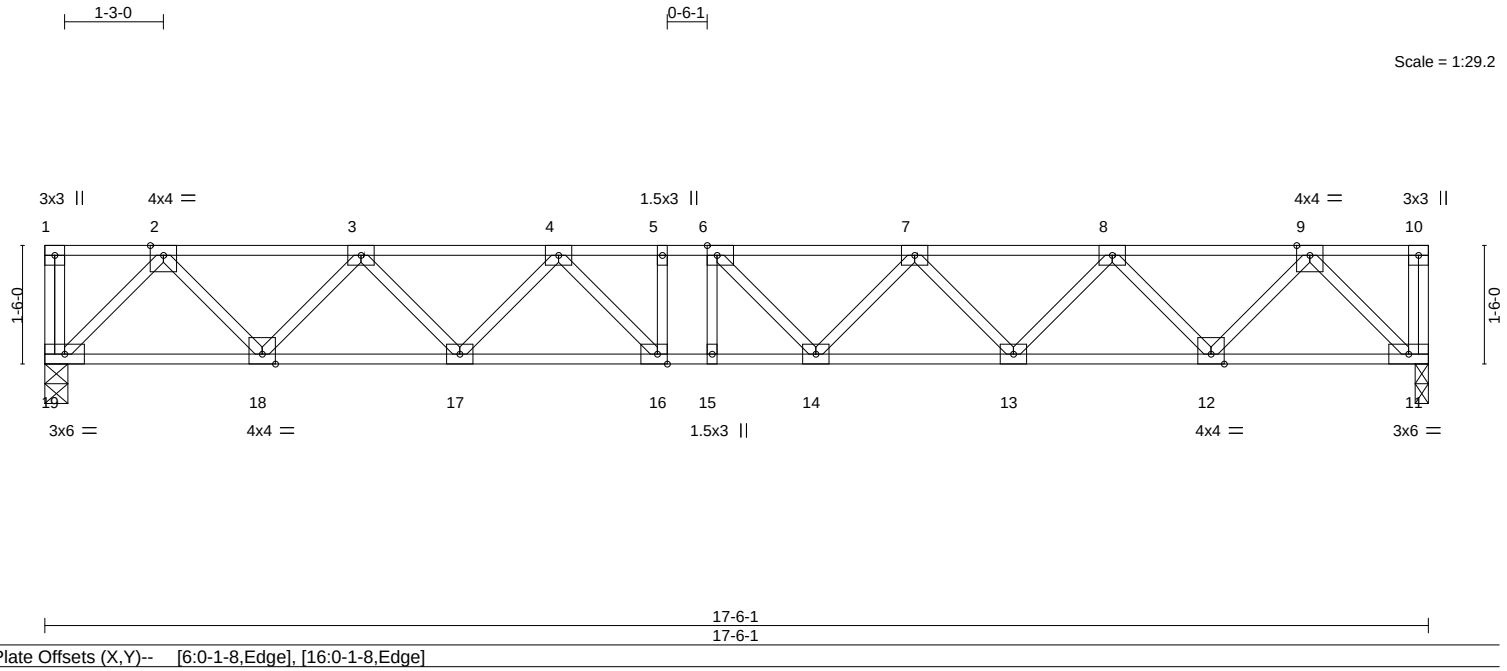

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.17	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.28	14-15	>747	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=0-3-8, 11=0-2-0
Max Grav 19=1122(LC 1), 11=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1790/0, 3-4=-2903/0, 4-5=-3504/0, 5-6=-3504/0, 6-7=-3436/0, 7-8=-2913/0, 8-9=-1788/0
BOT CHORD 18-19=0/1060, 17-18=0/2492, 16-17=0/3304, 15-16=0/3504, 14-15=0/3504, 13-14=0/3321, 12-13=0/2488, 11-12=0/1061
WEBS 9-11=-1501/0, 2-19=-1499/0, 9-12=0/1080, 2-18=0/1086, 8-12=-1040/0, 3-18=-1043/0, 8-13=0/633, 3-17=0/610, 7-13=-605/0, 4-17=-597/0, 7-14=-21/301, 4-16=-36/480, 6-14=-299/136

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

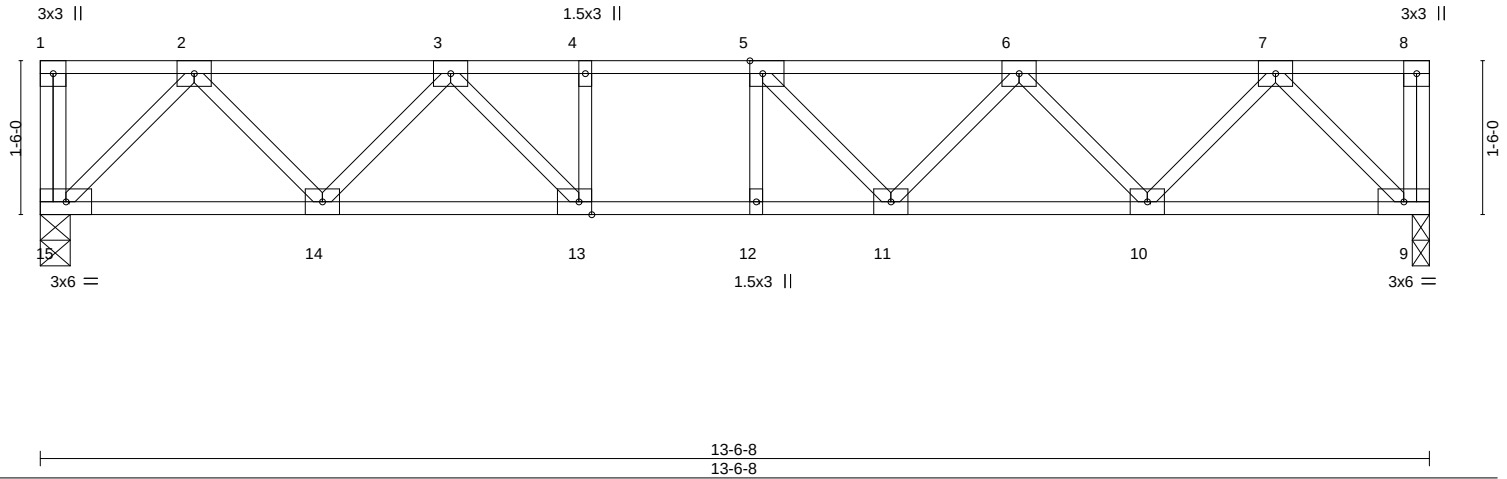
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F42	Floor	5	1	I50651259
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:09 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-HC1DUh9vvENkHMxURzIQhTK?ESpllR8yCpgx3Zzd02W

1-3-0 1-6-8

Scale = 1:22.5



13-6-8
13-6-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 75 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 15=0-3-8, 9=0-2-0
Max Grav 15=864(LC 1), 9=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1285/0, 3-4=-2054/0, 4-5=-2054/0, 5-6=-1945/0, 6-7=-1300/0
BOT CHORD 14-15=0/806, 13-14=0/1758, 12-13=0/2054, 11-12=0/2054, 10-11=0/1779, 9-10=0/800
WEBS 7-9=-1131/0, 2-15=-1140/0, 7-10=0/744, 2-14=0/713, 6-10=-712/0, 3-14=-703/0, 6-11=0/316, 3-13=0/571, 5-11=-321/21, 4-13=-266/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F43	Floor	1	1	I50651260
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:09 2022 Page 1
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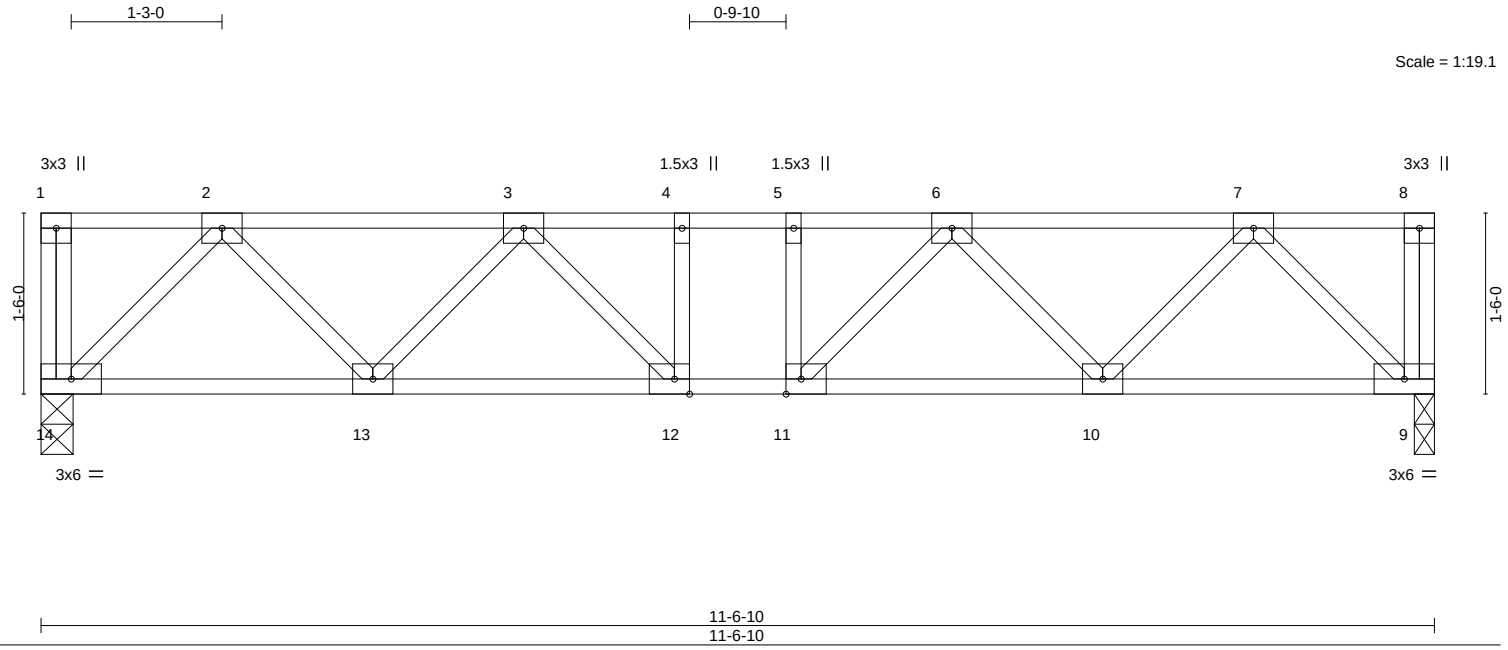

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-3, 9=0-2-0
Max Grav 14=734(LC 1), 9=734(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1048/0, 3-4=-1499/0, 4-5=-1499/0, 5-6=-1499/0, 6-7=-1048/0
BOT CHORD 13-14=0/678, 12-13=0/1391, 11-12=0/1499, 10-11=0/1391, 9-10=0/678
WEBS 7-9=-959/0, 2-14=-959/0, 7-10=0/550, 2-13=0/550, 6-10=-510/0, 3-13=-510/0, 6-11=-20/297, 3-12=-20/297

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F44	Floor	1	1	I50651261
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:10 2022 Page 1
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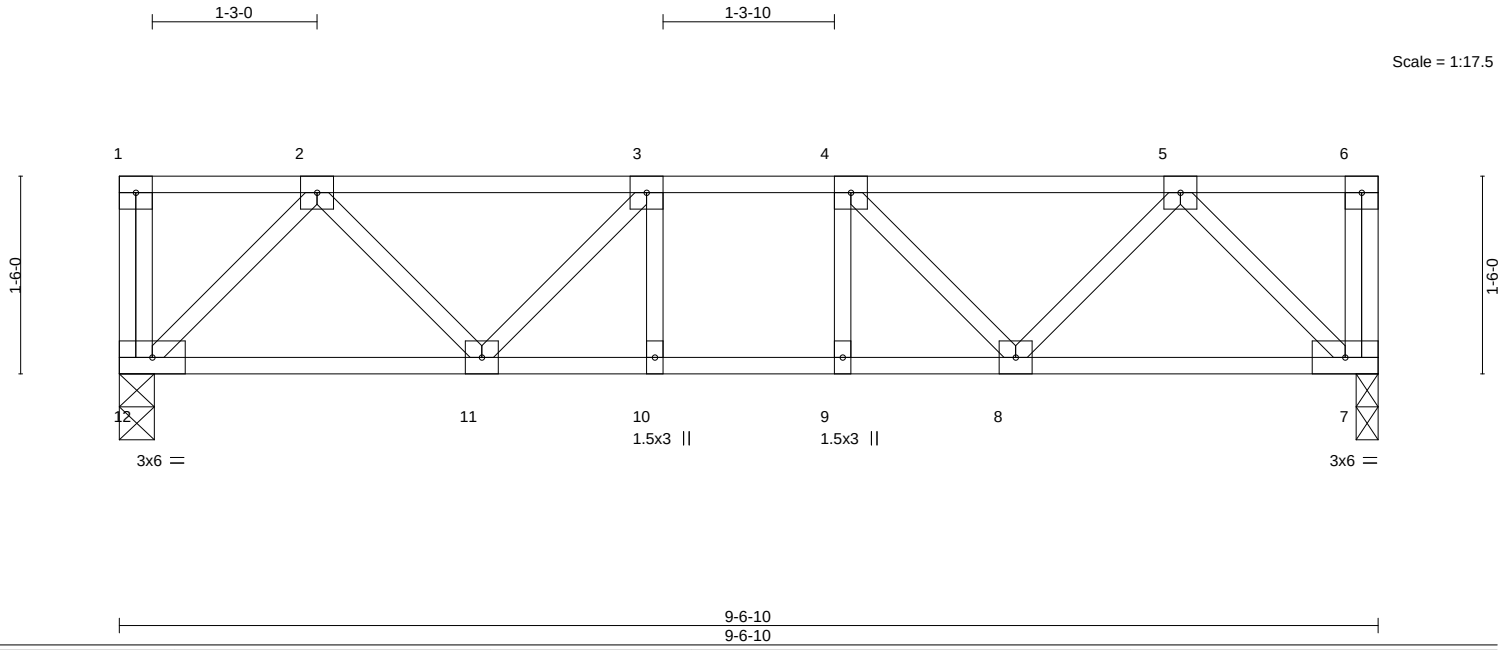

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-3, 7=0-2-0
Max Grav 12=604(LC 1), 7=604(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-797/0, 3-4=-1029/0, 4-5=-797/0
BOT CHORD	11-12=0/552, 10-11=0/1029, 9-10=0/1029, 8-9=0/1029, 7-8=0/552
WEBS	5-7=-780/0, 2-12=-780/0, 5-8=0/364, 2-11=0/364, 4-8=-358/0, 3-11=-358/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F45	Floor	3	1	I50651262
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:12 2022 Page 1
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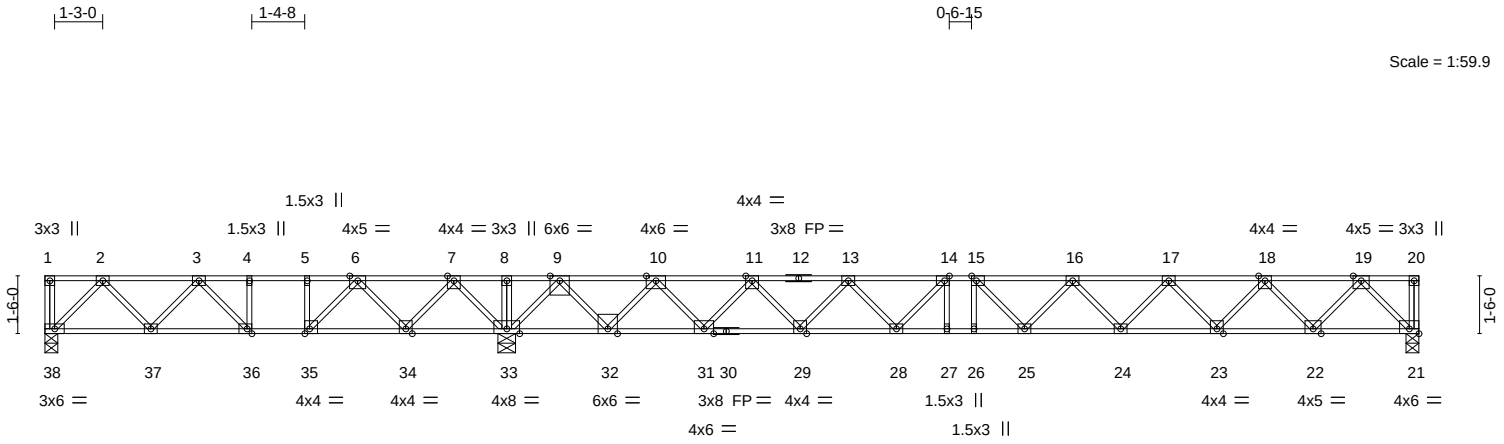

FASTEN TRUSS TO BEARING FOR
THE UPLIFT REACTION SHOWN
WHILE PERMITTING NO UPWARD
MOVEMENT OF THE BEARING.

12-0-0
12-0-0
35-8-7
23-8-7

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.35	25-26	>801	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.56	25-26	>503	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-130(LC 4)
Max Grav 38=562(LC 3), 21=1318(LC 4), 33=2996(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-733/349, 3-4=-744/1203, 4-5=-744/1203, 5-6=-744/1203, 6-7=0/2459, 7-8=0/3955, 8-9=0/3955, 9-10=0/993, 10-11=-1563/0, 11-13=-3229/0, 13-14=-4295/0, 14-15=-4742/0, 15-16=-4815/0, 16-17=-4527/0, 17-18=-3639/0, 18-19=-2161/0
BOT CHORD 37-38=-154/506, 36-37=-625/906, 35-36=-1203/744, 34-35=-1907/275, 33-34=-2976/0, 32-33=-2276/0, 31-32=-212/572, 29-31=0/2532, 28-29=0/3899, 27-28=0/4742, 26-27=0/4742, 25-26=0/4742, 24-25=0/4822, 23-24=0/4215, 22-23=0/3041, 21-22=0/1256
WEBS 2-38=-716/218, 7-33=-1626/0, 2-37=-290/337, 7-34=0/1164, 3-37=-257/410, 6-34=-1225/0, 3-36=-912/0, 6-35=0/1319, 4-36=0/452, 5-35=-707/0, 19-21=-1776/0, 9-33=-2374/0, 19-22=0/1346, 9-32=0/1938, 18-22=-1308/0, 10-32=-1915/0, 18-23=0/889, 10-31=0/1498, 17-23=-855/0, 11-31=-1464/0, 17-24=0/465, 11-29=0/1061, 16-24=-438/0, 13-29=-1019/0, 13-28=0/694, 15-25=-226/420, 14-28=-827/0, 14-27=-78/403, 15-26=-387/95

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 38.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F46	Floor	7	1	I50651263
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:14 2022 Page 1
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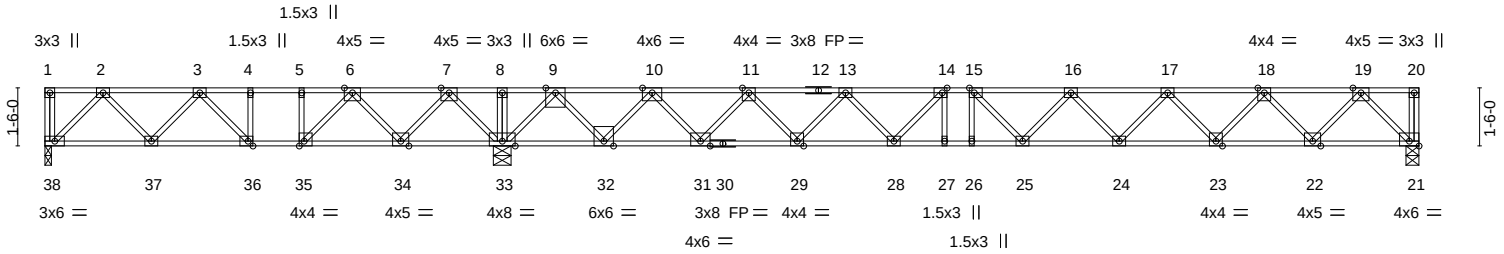
1-3-0 1-2-6 0-6-15

Scale = 1:59.6



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-9-14 35-6-5
11-9-14 23-8-7

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>816	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.55	25-26	>512	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-12 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-155(LC 4)
Max Grav 38=542(LC 3), 21=1310(LC 4), 33=3013(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-693/400, 3-4=-674/1282, 4-5=-674/1282, 5-6=-674/1282, 6-7=0/2548, 7-8=0/4055, 8-9=0/4055, 9-10=0/1065, 10-11=-1467/0, 11-13=-3145/0, 13-14=-4224/0, 14-15=-4681/0, 15-16=-4763/0, 16-17=-4488/0, 17-18=-3613/0, 18-19=-2148/0
BOT CHORD 37-38=-180/486, 36-37=-696/850, 35-36=-1282/674, 34-35=-1983/222, 33-34=-3082/0, 32-33=-2371/0, 31-32=-280/469, 29-31=0/2441, 28-29=0/3821, 27-28=0/4681, 26-27=0/4681, 25-26=0/4681, 24-25=0/4776, 23-24=0/4181, 22-23=0/3021, 21-22=0/1249
WEBS 2-38=-687/254, 7-33=-1640/0, 2-37=-327/308, 7-34=0/1181, 3-37=-232/441, 6-34=-1235/0, 3-36=-935/0, 6-35=0/1301, 4-36=0/466, 5-35=-693/0, 19-21=-1766/0, 9-33=-2382/0, 19-22=0/1336, 9-32=0/1947, 18-22=-1299/0, 10-32=-1924/0, 18-23=0/879, 10-31=0/1506, 17-23=-846/0, 11-31=-1471/0, 17-24=0/455, 11-29=0/1069, 16-24=-428/0, 13-29=-1026/0, 16-25=-251/209, 13-28=0/701, 15-25=-217/428, 14-28=-835/0, 14-27=-74/407, 15-26=-390/91

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 38.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

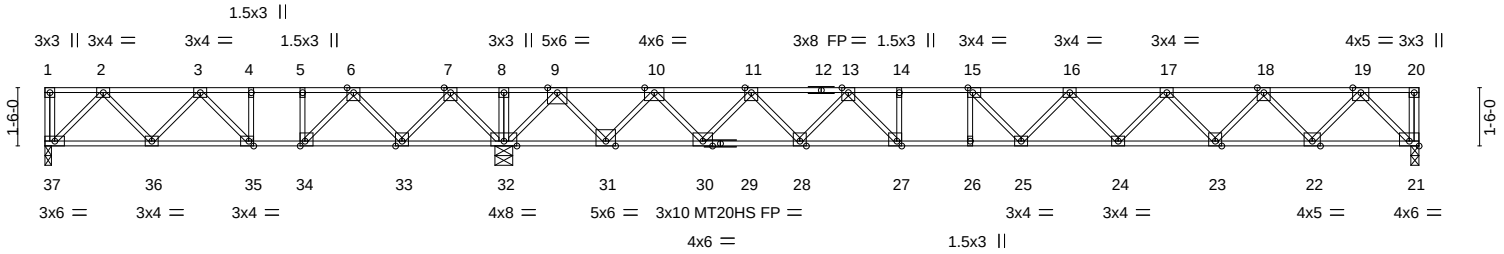
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F47	Floor	12	1	I50651264
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:15 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-5LOUlkDgV47u?HOeoDPqxkaw1ssO80Aral7FGDzd02Q

1-3-0 1-2-6 1-8-7

Scale = 1:59.4



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-9-14 35-4-13
11-9-14 23-6-15

Plate Offsets (X,Y)-- [15:0-1-8,Edge], [21:Edge,0-1-8], [27:0-1-8,Edge], [34:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.37	25-26	>760	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.59	25-26	>475	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	21	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-20: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-29: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 37=0-2-0, 21=0-2-8, 32=0-5-8
Max Uplift 37=-73(LC 4)
Max Grav 37=574(LC 3), 21=1342(LC 4), 32=2883(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-753/247, 3-4=-810/935, 4-5=-810/935, 5-6=-810/935, 6-7=0/2007, 7-8=0/3360, 8-9=0/3360, 9-10=0/527, 10-11=-1992/0, 11-13=-3542/0, 13-14=-4816/0, 14-15=-4816/0, 15-16=-4987/0, 16-17=-4665/0, 17-18=-3729/0, 18-19=-2208/0
BOT CHORD 36-37=-96/519, 35-36=-471/937, 34-35=-935/810, 33-34=-1514/405, 32-33=-2471/0, 31-32=-1721/0, 30-31=0/1030, 28-30=0/2913, 27-28=0/4215, 26-27=0/4816, 25-26=0/4816, 24-25=0/5000, 23-24=0/4322, 22-23=0/3111, 21-22=0/1279
WEBS 2-37=-734/136, 7-32=-1524/0, 2-36=-224/349, 7-33=0/1077, 3-36=-273/333, 6-33=-1128/0, 3-35=-755/0, 6-34=0/1122, 4-35=0/341, 5-34=-569/0, 19-21=-1809/0, 9-32=-2317/0, 19-22=0/1380, 9-31=0/1880, 18-22=-1343/0, 10-31=-1862/0, 18-23=0/919, 10-30=0/1453, 17-23=-881/0, 11-30=-1391/0, 17-24=0/509, 11-28=0/955, 16-24=-498/0, 13-28=-1025/0, 13-27=0/1136, 15-25=-185/549, 14-27=-506/0, 15-26=-388/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 4x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 37, 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 37.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

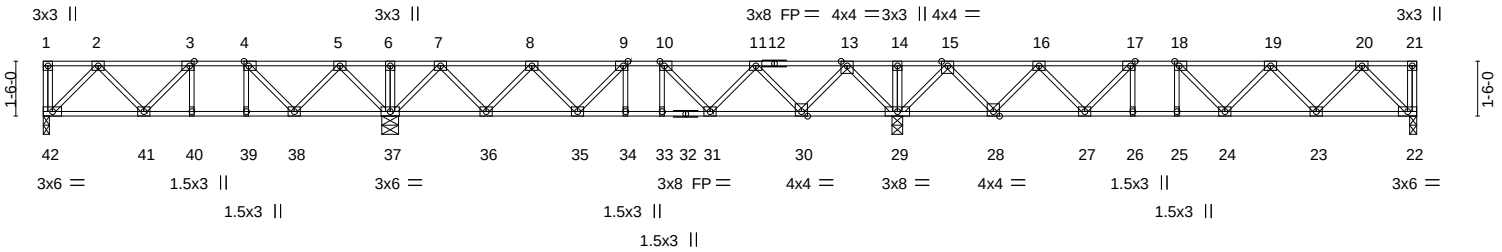
Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F48	Floor	4	1	I50651265
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:17 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-2kWFAQFx1hOcFaY0veRI09fKHgZ_c0z823cML5zd02O

1-3-0 1-4-6 0-10-8 1-1-0

Scale = 1:63.0



9-5-14 23-4-6 37-6-14
9-5-14 13-10-8 14-2-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	24-25	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.12	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 22=0-2-5, 37=0-5-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=544(LC 5), 22=792(LC 5), 37=1631(LC 3), 29=2107(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-681/0, 3-4=-823/0, 4-5=-489/262, 5-6=0/1002, 6-7=0/1002, 7-8=-509/61, 8-9=-1146/0, 9-10=-1295/0, 10-11=-1045/146, 11-13=-257/571, 13-14=0/1777, 14-15=0/1777, 15-16=-373/425, 16-17=-1341/0, 17-18=-1722/0, 18-19=-1679/0, 19-20=-1164/0
BOT CHORD 41-42=0/498, 40-41=0/823, 39-40=0/823, 38-39=0/823, 37-38=-482/178, 36-37=-252/83, 35-36=0/973, 34-35=0/1295, 33-34=0/1295, 31-33=0/1295, 30-31=-313/798, 29-30=-855/0, 28-29=-772/0, 27-28=-134/998, 26-27=0/1722, 25-26=0/1722, 24-25=0/1722, 23-24=0/1579, 22-23=0/728
WEBS 2-42=-704/0, 5-37=-939/0, 2-41=-23/272, 5-38=0/577, 4-38=-650/0, 13-29=-1328/0, 7-37=-1132/0, 13-30=0/937, 7-36=0/757, 11-30=-902/0, 8-36=-730/0, 11-31=0/477, 8-35=0/283, 10-31=-509/0, 20-22=-1030/0, 15-29=-1435/0, 20-23=0/648, 15-28=0/1035, 19-23=-616/0, 16-28=-995/0, 16-27=0/587, 17-27=-690/0, 17-26=0/267

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 22.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F49	Floor	10	1	I50651266
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:18 2022 Page 1
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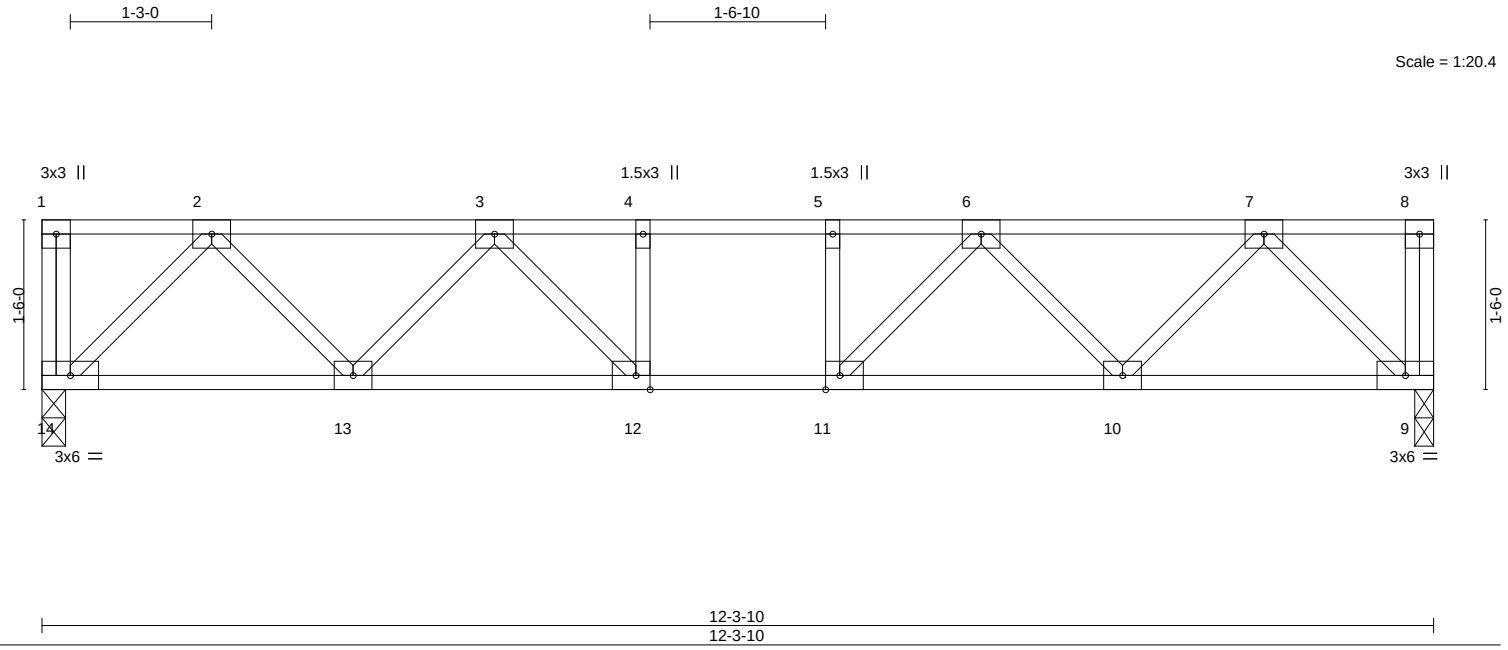

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-2-0
Max Grav 14=783(LC 1), 9=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1141/0, 3-4=-1694/0, 4-5=-1694/0, 5-6=-1694/0, 6-7=-1141/0
BOT CHORD 13-14=0/728, 12-13=0/1527, 11-12=0/1694, 10-11=0/1527, 9-10=0/728
WEBS 7-9=-1029/0, 2-14=-1029/0, 7-10=0/614, 2-13=0/614, 6-10=-574/0, 3-13=-574/0, 6-11=0/405, 3-12=0/405

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F50	Floor	4	1	I50651267
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:20 2022 Page 1
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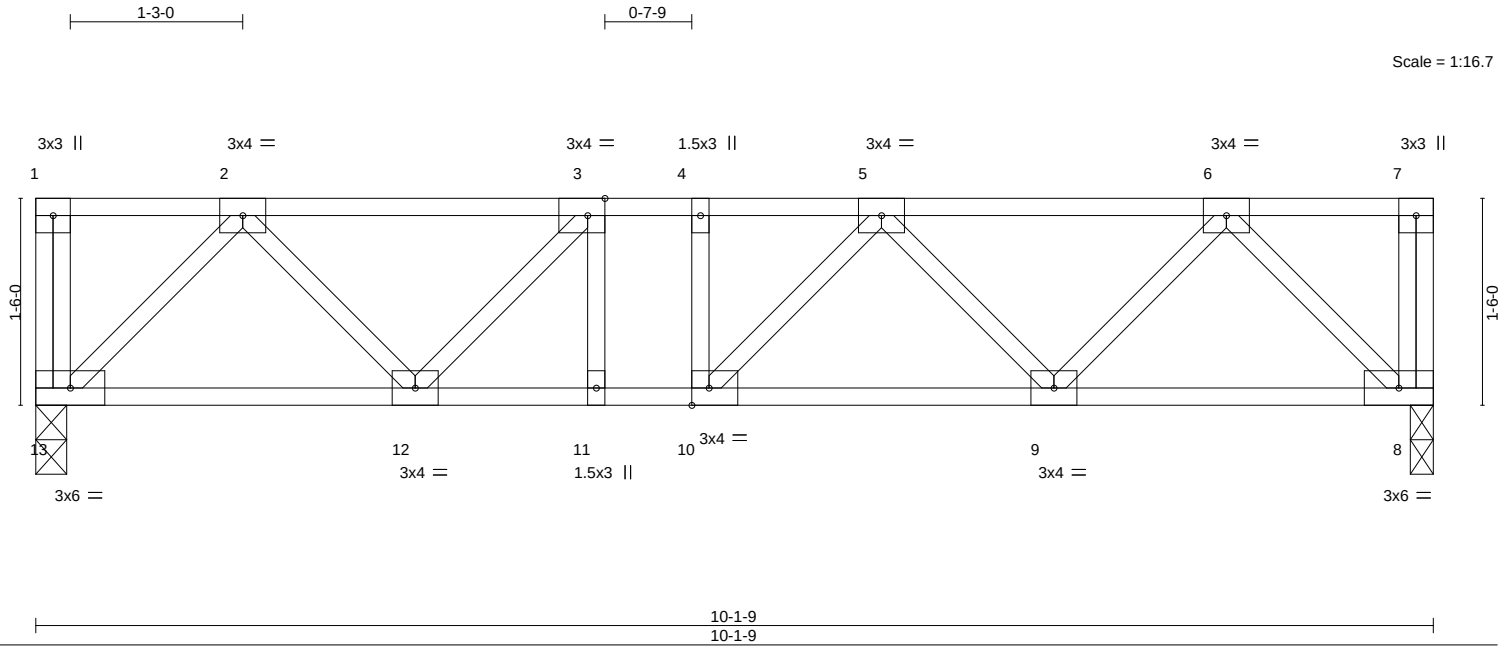

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-11, 8=0-2-0
Max Grav 13=642(LC 1), 8=642(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/0, 3-4=-1143/0, 4-5=-1143/0, 5-6=-873/0
BOT CHORD 12-13=0/587, 11-12=0/1143, 10-11=0/1143, 9-10=0/1134, 8-9=0/586
WEBS 6-8=-828/0, 2-13=-830/0, 6-9=0/427, 2-12=0/423, 5-9=-387/0, 3-12=-394/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13, 8.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F51	Floor	3	1	I50651268
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:21 2022 Page 1
ID:fbPe_OLl9YQ0M7VZeqph0MzGCvL-wVll?oIR4wu1jCsn8UWEA?p2bH?ZYs7jzgaZUszd02K

1-3-0 1-4-6 1-2-0

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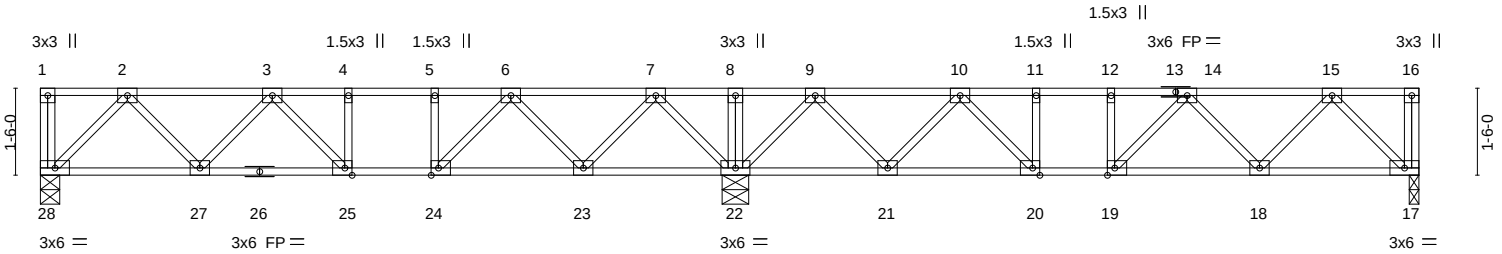

11-11-14 23-9-6
11-11-14 11-9-8

Plate Offsets (X,Y)-- [19:0-1-8,Edge], [20:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.06	25-27	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.10	25-27	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22.

REACTIONS. (size) 28=0-4-0, 17=0-2-0, 22=0-5-8
Max Grav 28=687(LC 3), 17=675(LC 4), 22=1772(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-964/0, 3-4=-1282/0, 4-5=-1282/0, 5-6=-1282/0, 6-7=-544/126, 7-8=0/1051, 8-9=0/1051, 9-10=-536/144, 10-11=-1239/0, 11-12=-1239/0, 12-14=-1239/0, 14-15=-939/0
BOT CHORD 27-28=0/632, 25-27=0/1255, 24-25=0/1282, 23-24=0/1006, 22-23=-355/75, 21-22=-372/78, 20-21=0/985, 19-20=0/1239, 18-19=0/1221, 17-18=0/619
WEBS 2-28=-894/0, 7-22=-1160/0, 2-27=0/493, 7-23=0/742, 3-27=-433/0, 6-23=-740/0, 6-24=0/562, 5-24=-291/0, 15-17=-876/0, 9-22=-1150/0, 15-18=0/476, 9-21=0/734, 14-18=-419/0, 10-21=-729/0, 10-20=0/537, 11-20=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F52	Floor	5	1	I50651269
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:23 2022 Page 1
ID:fbPe_OLI9YQ0M7VZeqph0MzGCvL-sutWQTKhcX8lzV0AGvYiFQvHC5fU0f?0Q_3gYlzd02I

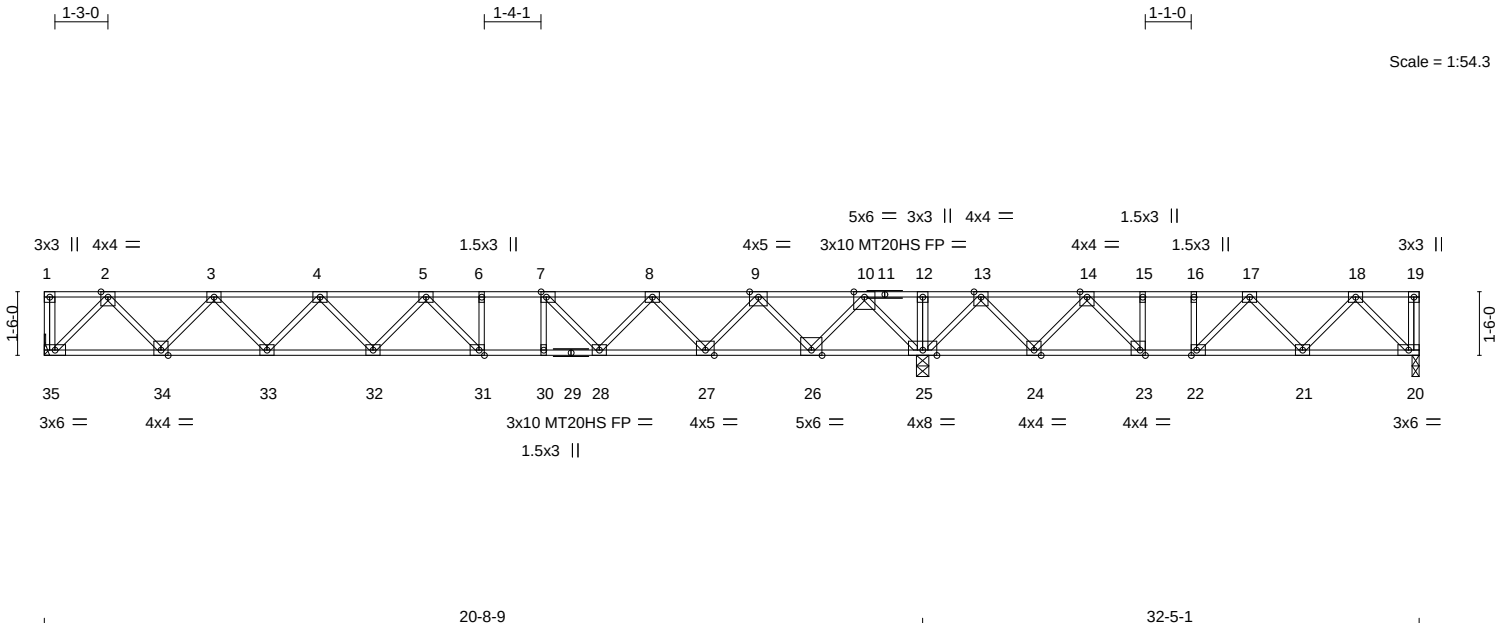

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.26	31-32	>961	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.41	31-32	>596	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	25	n/a	n/a		
BCDL	5.0	Code IBC2015/TPI2014		Matrix-SH							Weight: 175 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 11-19: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 20-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 35=Mechanical, 20=0-2-0, 25=0-3-8
Max Uplift 20=-31(LC 3)
Max Grav 35=1158(LC 3), 20=585(LC 4), 25=2643(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1858/0, 3-4=-3041/0, 4-5=-3659/0, 5-6=-3546/0, 6-7=-3546/0, 7-8=-2940/0, 8-9=-1696/0, 9-10=0/476, 10-12=0/2942, 12-13=0/2942, 13-14=0/1684, 14-15=-865/741, 15-16=-865/741, 16-17=-865/741, 17-18=-773/170
BOT CHORD 34-35=0/1097, 33-34=0/2590, 32-33=0/3485, 31-32=0/3760, 30-31=0/3546, 28-30=0/3546, 27-28=0/2441, 26-27=0/915, 25-26=-1492/0, 24-25=-2109/0, 23-24=-1237/504, 22-23=-741/865, 21-22=-354/967, 20-21=-54/530
WEBS 2-35=-1552/0, 10-25=-2051/0, 2-34=0/1131, 10-26=0/1632, 3-34=-1088/0, 9-26=-1615/0, 3-33=0/671, 9-27=0/1185, 4-33=-660/0, 8-27=-1131/0, 4-32=0/258, 8-28=0/785, 7-28=-1011/0, 5-31=-553/100, 7-30=0/381, 18-20=-749/76, 13-25=-1447/0, 18-21=-173/361, 13-24=0/1013, 17-21=-289/273, 14-24=-1054/0, 17-22=-650/0, 14-23=0/990, 15-23=-483/0, 16-22=0/273

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 20.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F52A	Floor	2	1	I50651270
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:24 2022 Page 1
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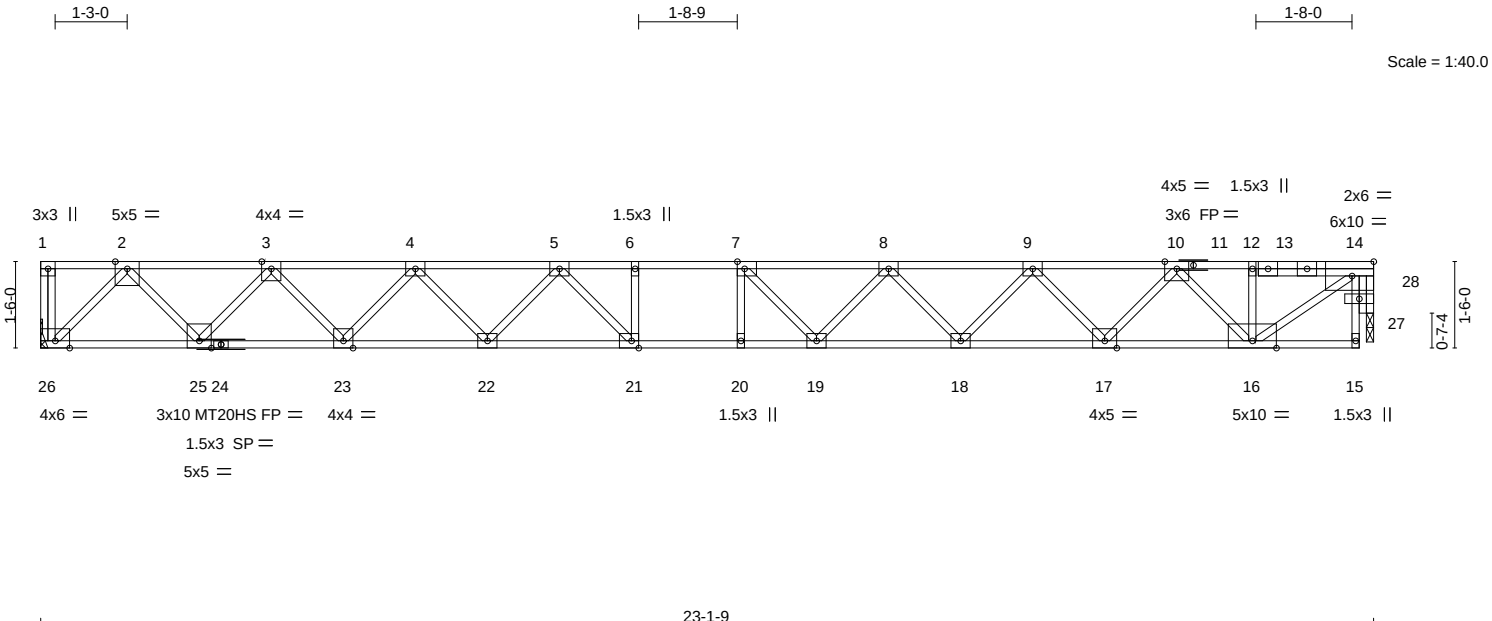

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [14:0-4-8,Edge], [21:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.39	20	>707	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.63	20	>436	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.08	28	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 127 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 15-24: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 14-15,14-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=Mechanical, 28=0-1-8
Max Grav 26=1490(LC 1), 28=1460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2488/0, 3-4=-4282/0, 4-5=-5466/0, 5-6=-6170/0, 6-7=-6170/0, 7-8=-5996/0, 8-9=-5269/0, 9-10=-3935/0, 10-12=-2000/0, 12-14=-2003/0
BOT CHORD	25-26=0/1427, 23-25=0/3524, 22-23=0/5015, 21-22=0/5908, 20-21=0/6170, 19-20=0/6170, 18-19=0/5780, 17-18=0/4740, 16-17=0/3106
WEBS	14-16=0/2218, 2-26=-2018/0, 2-25=0/1577, 3-25=-1539/0, 3-23=0/1127, 4-23=-1091/0, 4-22=0/670, 10-16=-1602/0, 10-17=0/1233, 9-17=-1196/0, 9-18=0/787, 8-18=-759/0, 8-19=0/520, 7-19=-613/162, 5-22=-669/0, 5-21=-101/755, 6-21=-349/0, 14-28=-1522/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F52B	Floor	2	1	I50651271
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:25 2022 Page 1
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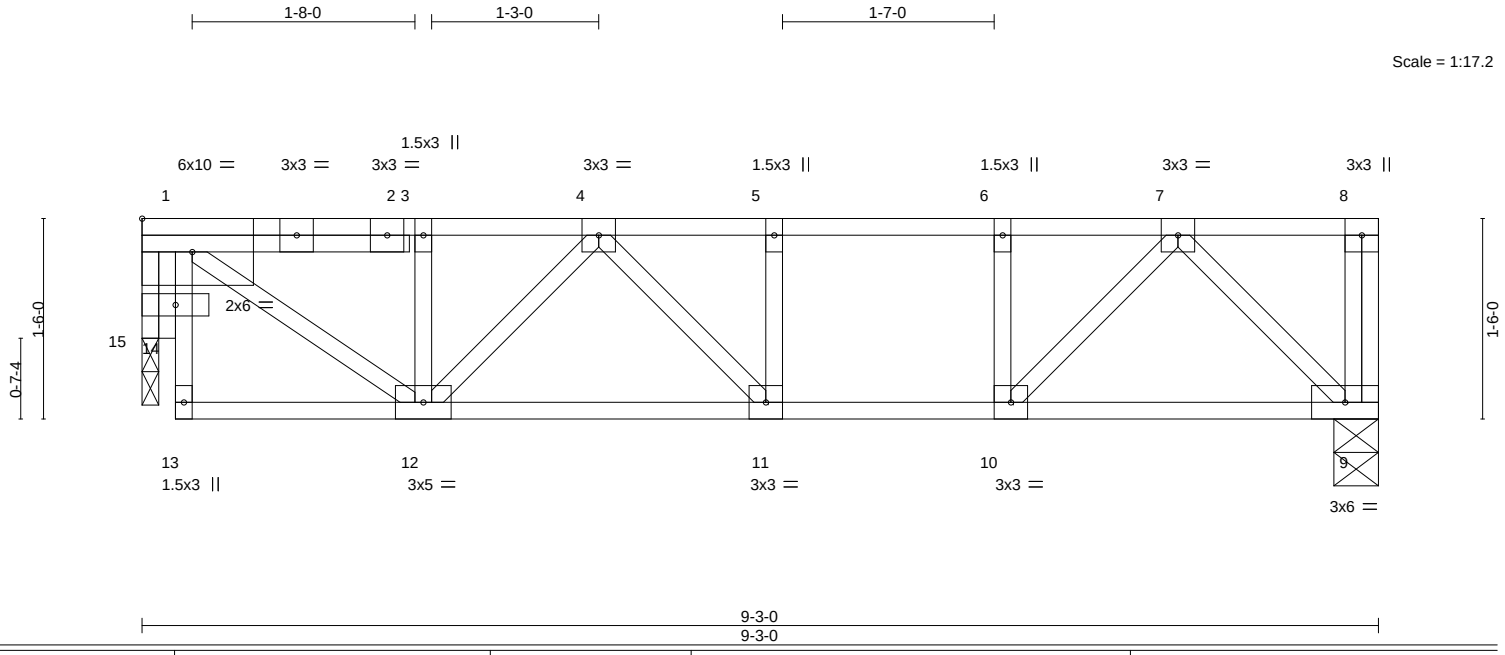

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 15=0-1-8
Max Grav 9=587(LC 1), 15=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-694/0, 3-4=-690/0, 4-5=-902/0, 5-6=-902/0, 6-7=-902/0
BOT CHORD	11-12=0/904, 10-11=0/902, 9-10=0/510
WEBS	1-12=0/748, 4-12=-310/0, 7-9=-722/0, 7-10=0/582, 6-10=-323/0, 1-15=-585/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	F53	Floor	5	1	I50651272
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:26 2022 Page 1
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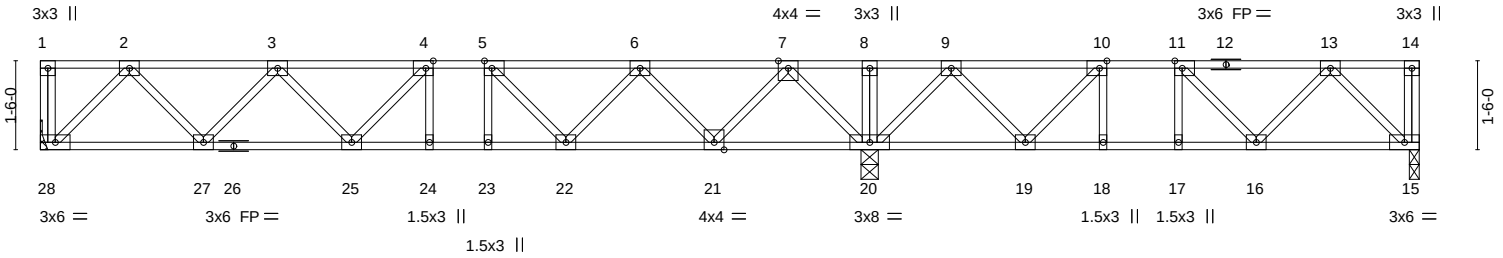

13-11-14 23-3-2
13-11-14 9-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.11	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 130 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 28=Mechanical, 15=0-2-0, 20=0-3-8
Max Grav 28=807(LC 10), 15=503(LC 4), 20=1788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1192/0, 3-4=-1734/0, 4-5=-1811/0, 5-6=-1490/0, 6-7=-600/0, 7-8=0/1243, 8-9=0/1243, 9-10=-342/415, 10-11=-696/120, 11-13=-601/0
BOT CHORD 27-28=0/744, 25-27=0/1617, 24-25=0/1811, 23-24=0/1811, 22-23=0/1811, 21-22=0/1189, 20-21=-293/0, 19-20=-663/18, 18-19=-120/696, 17-18=-120/696, 16-17=-120/696, 15-16=0/458
WEBS 2-28=-1052/0, 7-20=-1343/0, 2-27=0/666, 7-21=0/949, 3-27=-631/0, 6-21=-915/0, 6-22=0/492, 5-22=-548/0, 13-15=-648/0, 9-20=-967/0, 9-19=0/606, 10-19=-684/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW1	GABLE	1	1	I50651273
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:32 2022 Page 1
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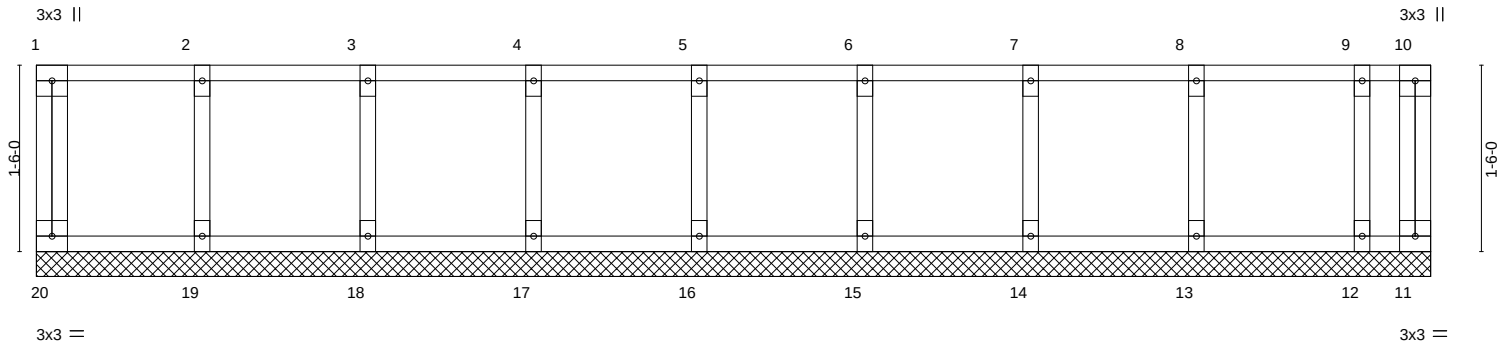

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-2-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW2	GABLE	1	1	I50651274
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:43 2022 Page 1
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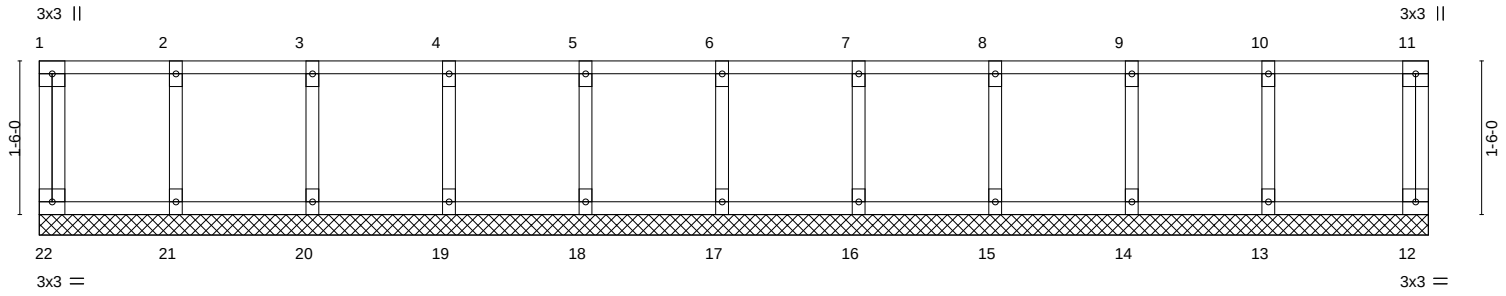

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-6-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW3	GABLE	1	1	I50651275
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:44 2022 Page 1
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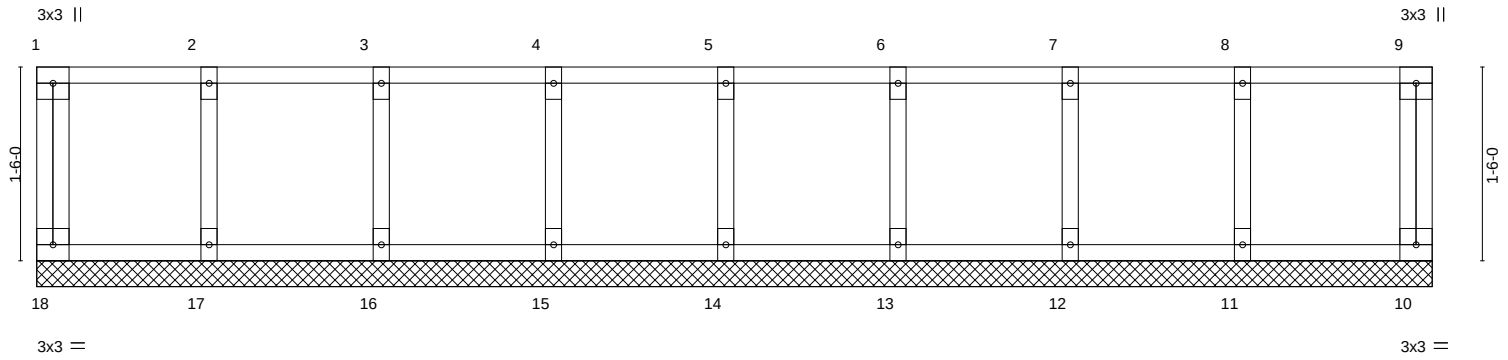

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-9-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-9-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW4	GABLE	1	1	I50651276
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:46 2022 Page 1
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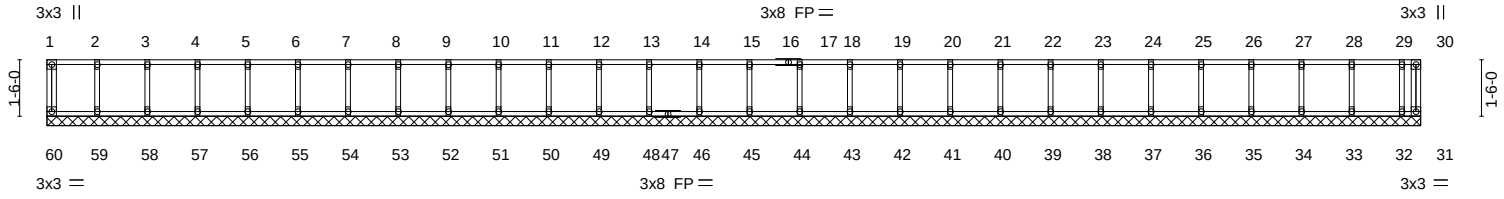

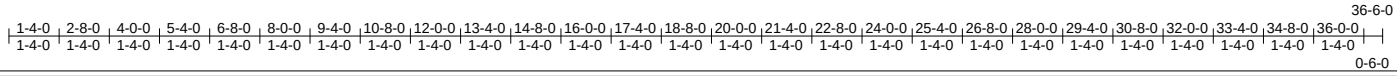

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW5	GABLE	1	1	I50651277
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:48 2022 Page 1
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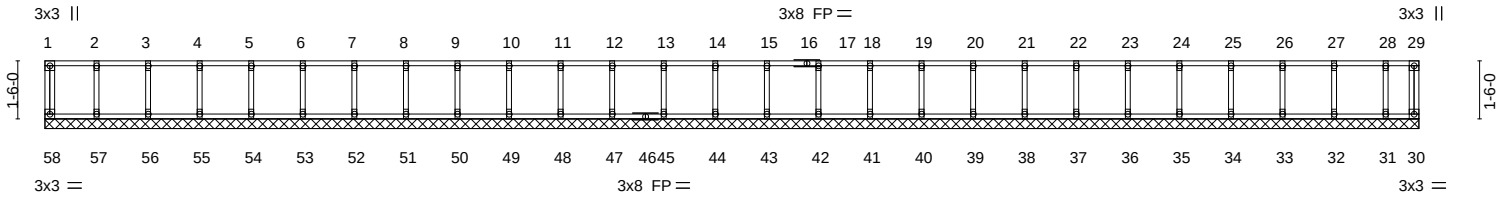

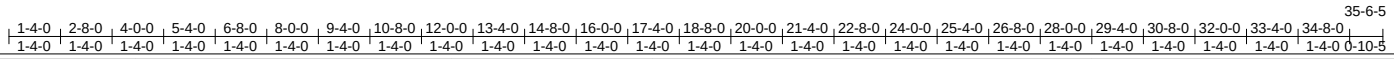

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 161 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-6-5.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW6	GABLE	1	1	I50651278
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:48 2022 Page 1
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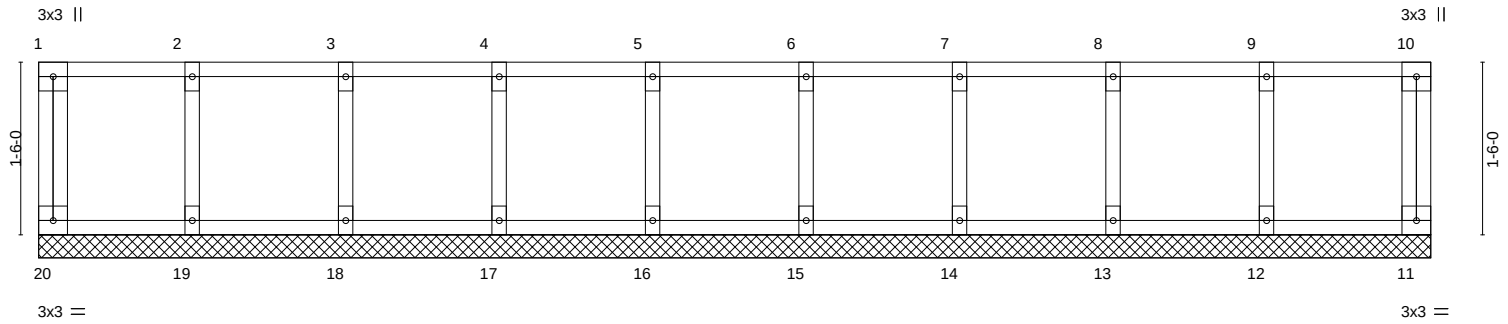

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW7	GABLE	5	1	I50651279
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:50 2022 Page 1
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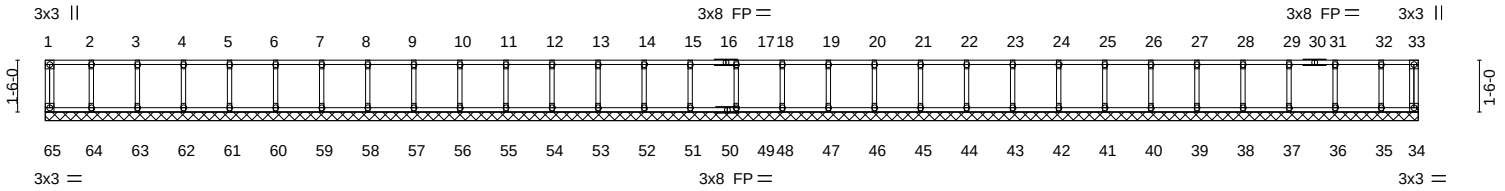

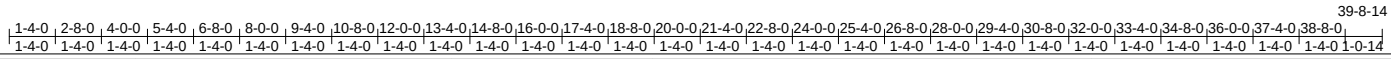

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	34	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 180 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 39-8-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 65, 34, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW8	GABLE	1	1	I50651280
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:51 2022 Page 1
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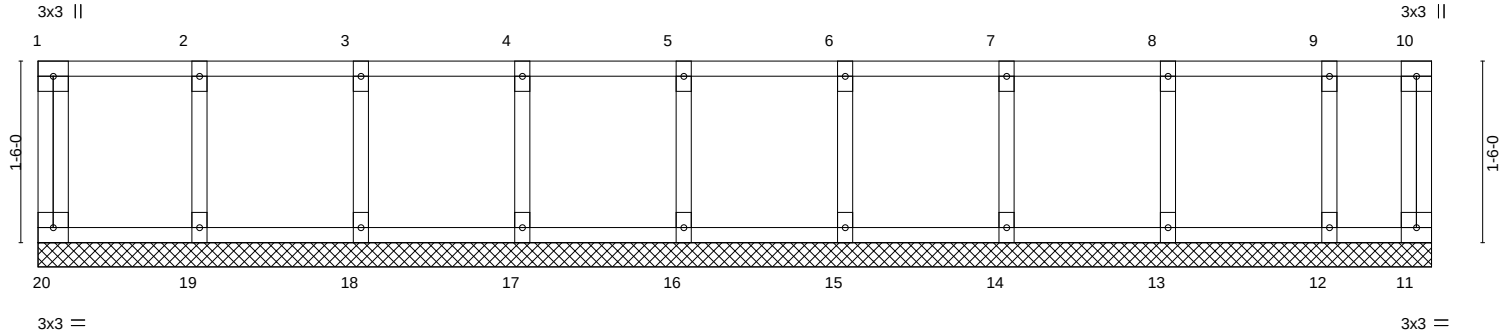

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-6-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW9	GABLE	1	1	I50651281
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:52 2022 Page 1
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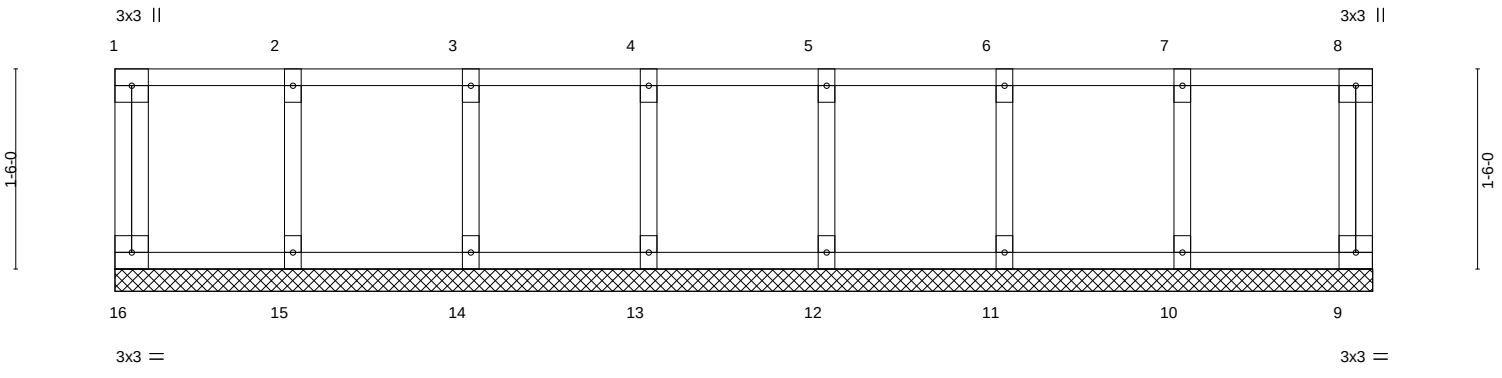

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-5-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-5-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW10	GABLE	1	1	I50651282
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:33 2022 Page 1
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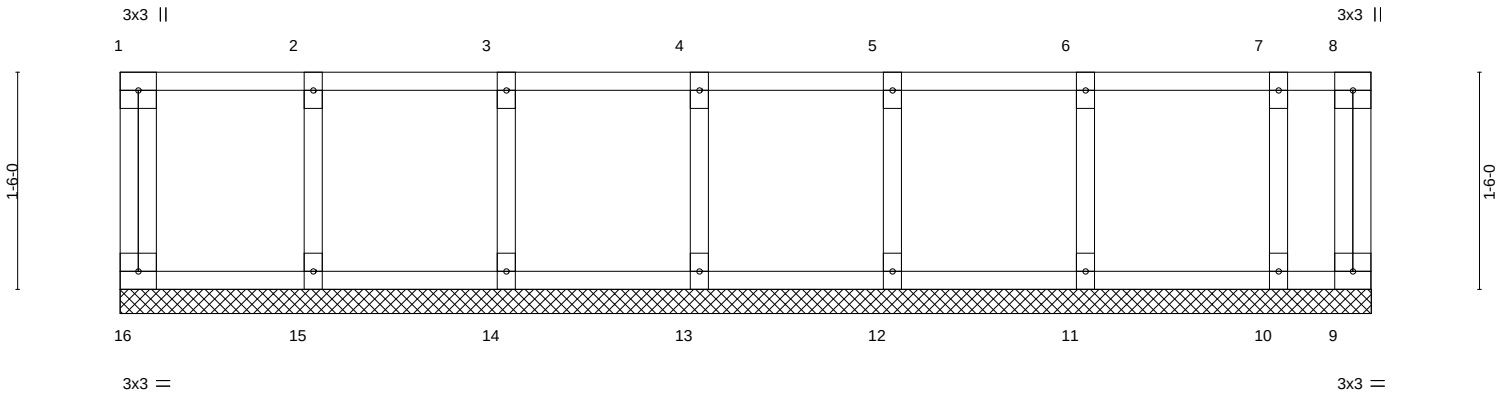

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	8-7-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-7-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW11	GABLE	1	1	I50651283
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:34 2022 Page 1
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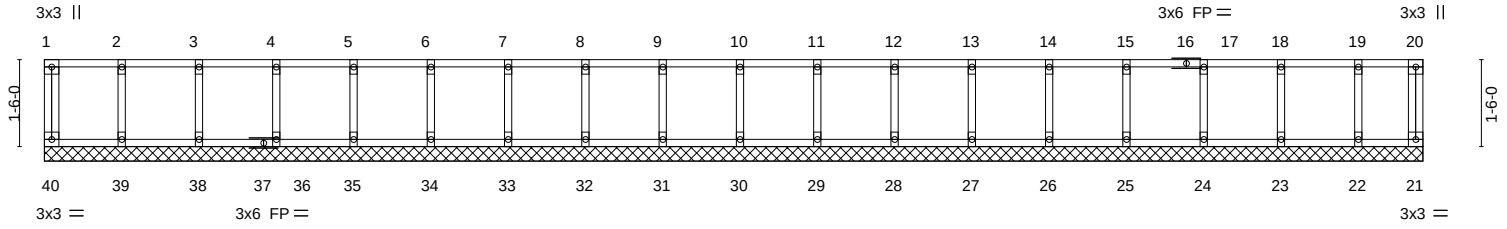

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	23-9-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	21	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 110 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 23-9-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW12	GABLE	2	1	I50651284
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:35 2022 Page 1
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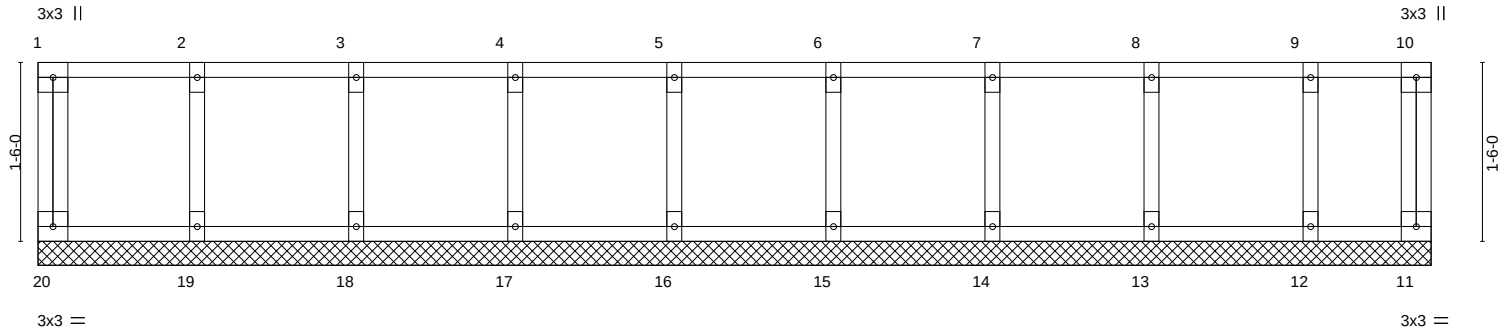

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW13	GABLE	1	1	I50651285
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:35 2022 Page 1
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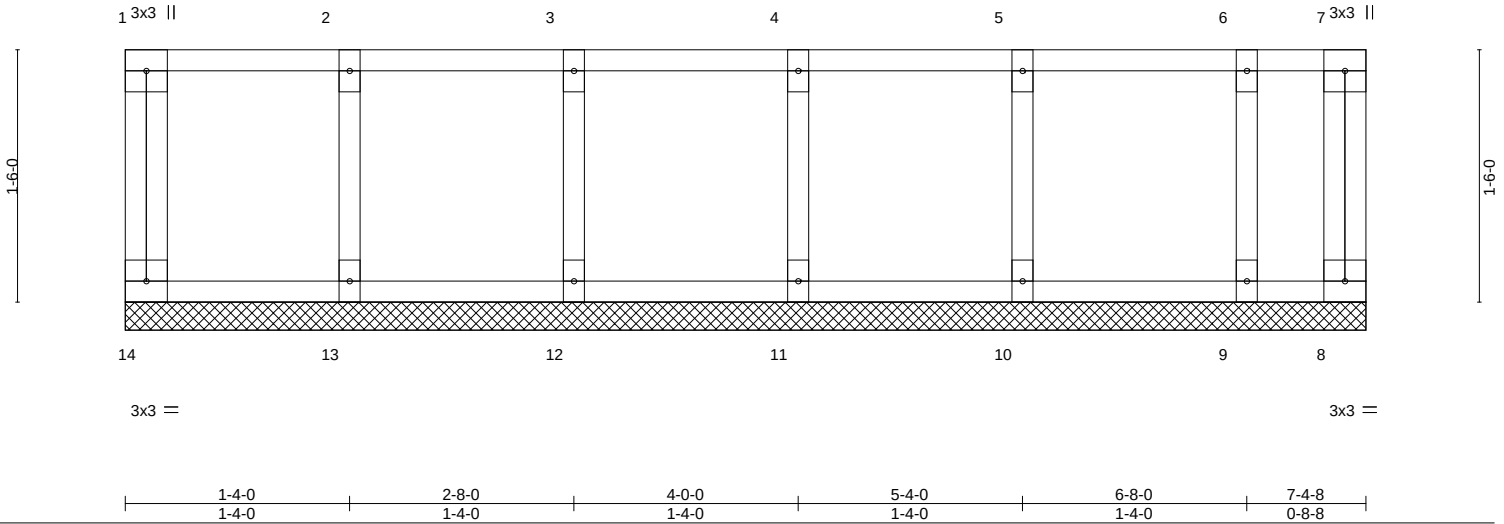

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW14	GABLE	1	1	I50651286
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:36 2022 Page 1
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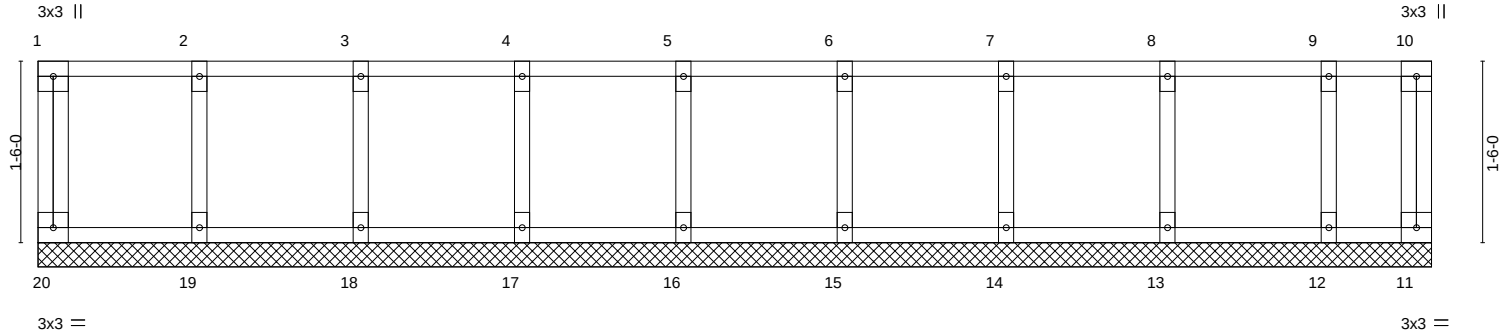

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-6-3
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-3

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-3.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW15	GABLE	1	1	I50651287
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:38 2022 Page 1
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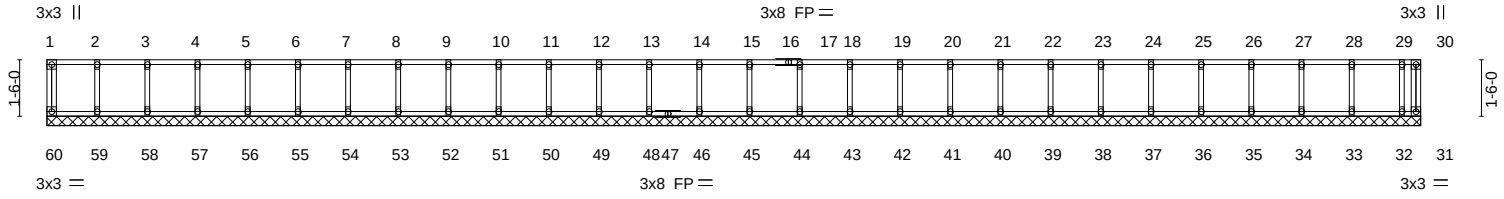

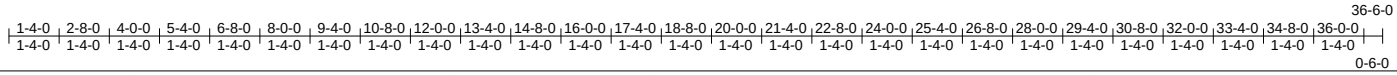

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW16	GABLE	1	1	I50651288
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:39 2022 Page 1
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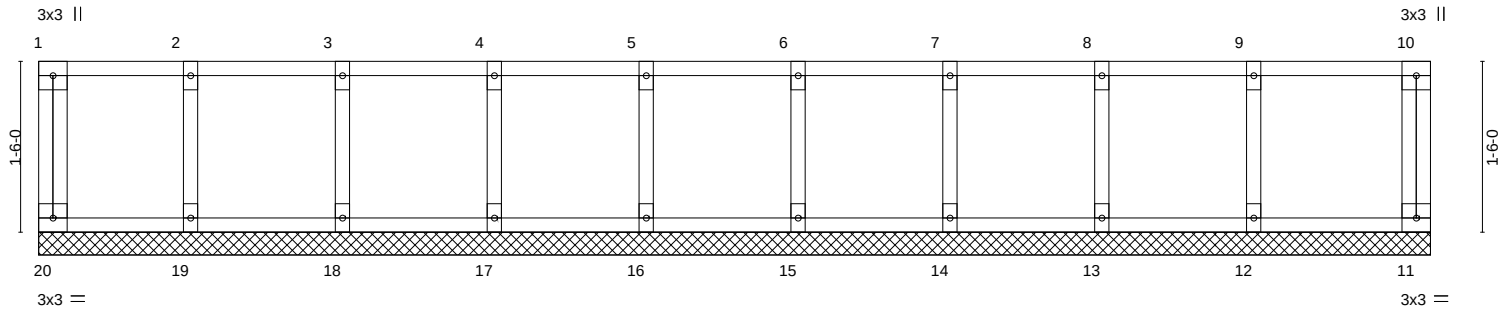

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW17	GABLE	1	1	I50651289
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:41 2022 Page 1
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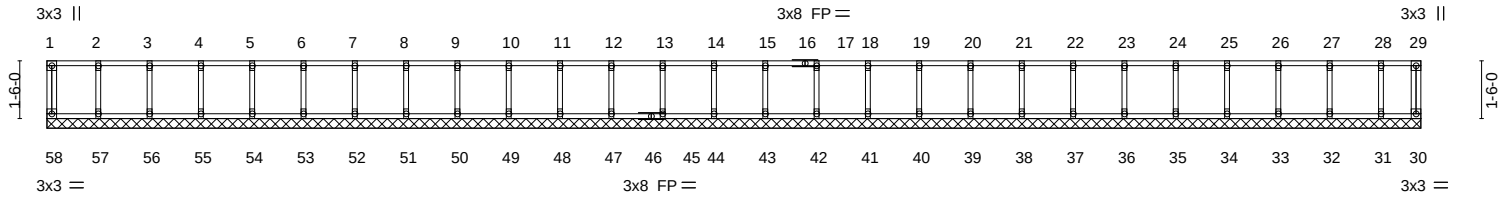

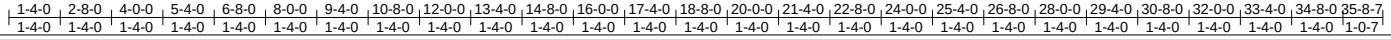

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 162 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-8-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW18	GABLE	1	1	I50651290
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:42 2022 Page 1
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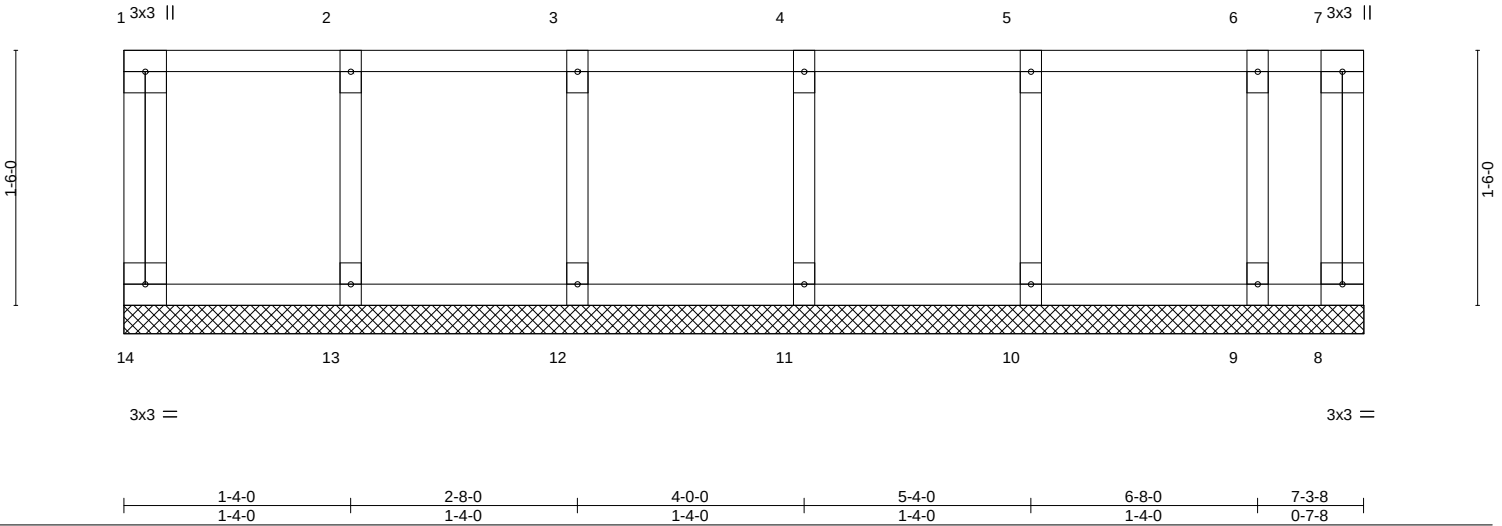

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW19	GABLE	1	1	I50651291
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:42 2022 Page 1
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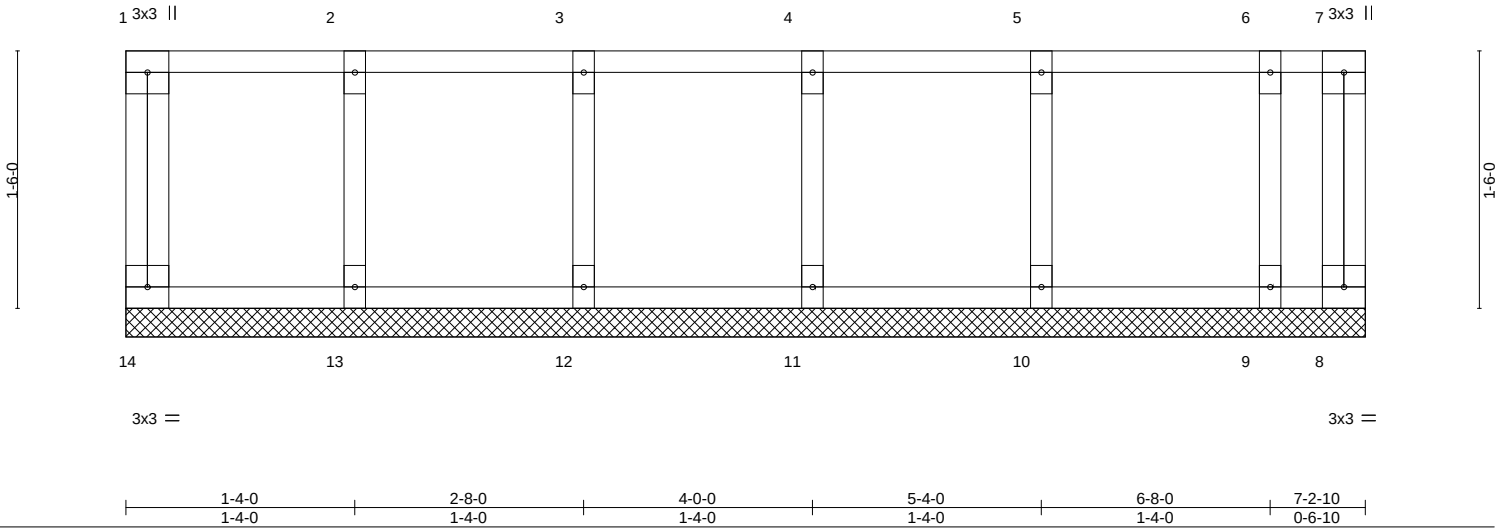

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-1BC
PRYOR-1BC	KW20	GABLE	1	1	I50651292
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:44 2022 Page 1
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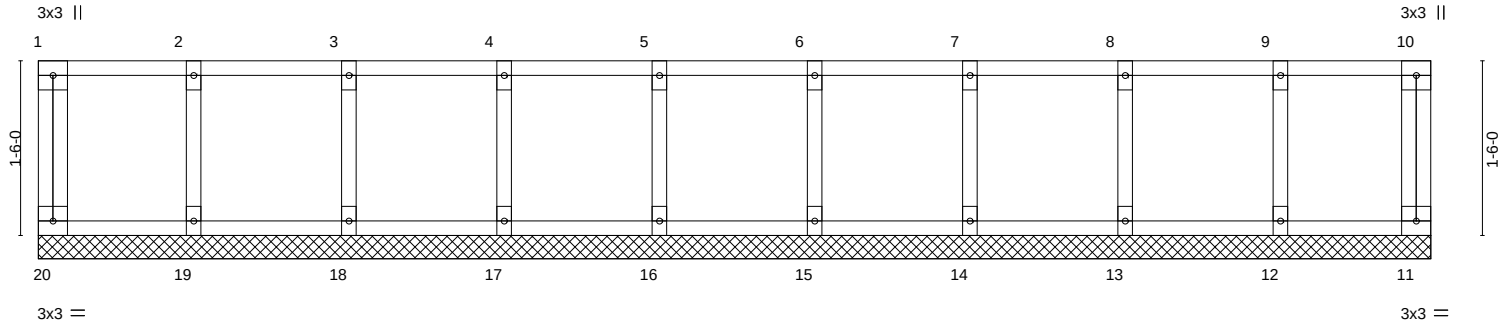


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

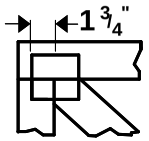
March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

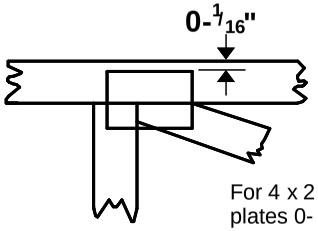
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

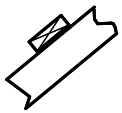
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

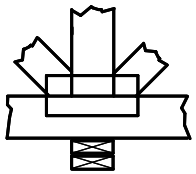
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

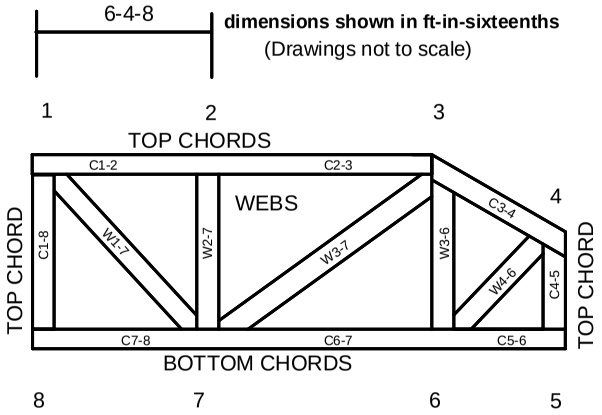


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area B Level 2

Building 1 Area B Level 2

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: March 13, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
1bc truss layout Shop Drawings	RETURNED NOT REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Building 1 Area C/D Level 2

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

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Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: February 8, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
1c floor truss Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED

Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED

Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT

Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED

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- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED

Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F1C

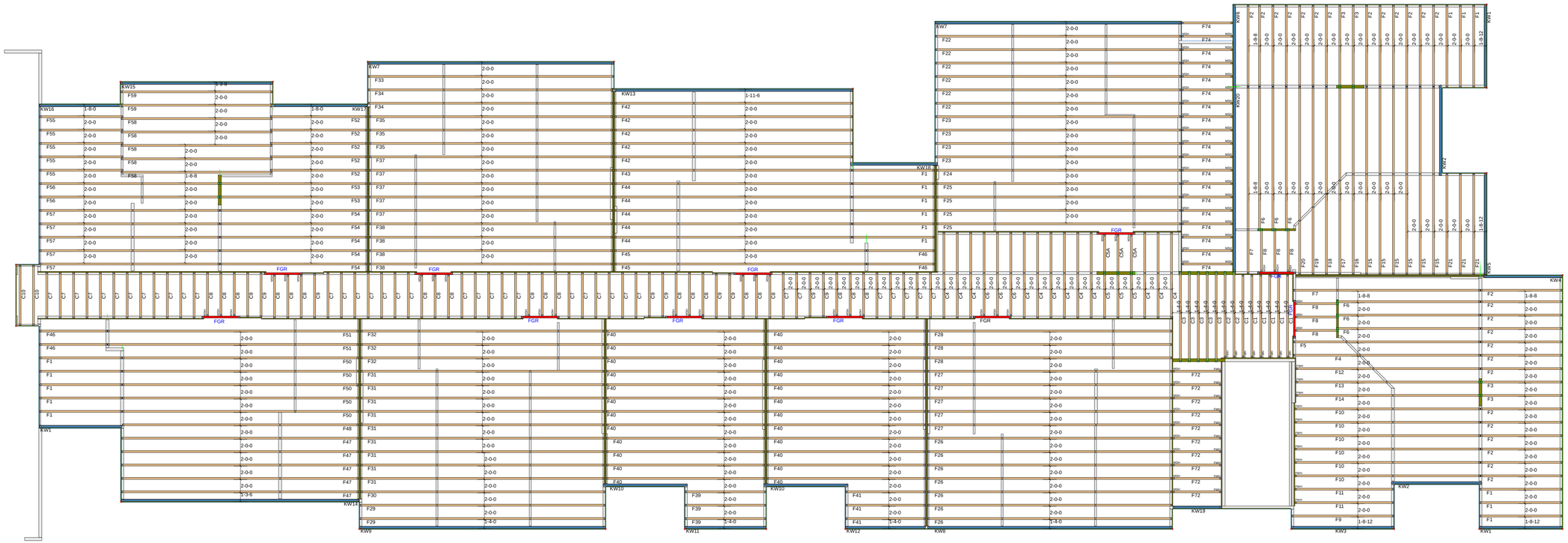
REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/9/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #1 Area C
2nd Level

Telephone: Fax:
Contact: Sales:
Drawn By: Date:

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 02/08/2022 BY: cb

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

TRUSS LAYOUT
Scale: 1/8" = 1'-0

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F1C
WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I50026068 thru I50026158

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 2/9/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

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1790 Brentwood Blvd.
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314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 02/08/2022 BY: cb

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

February 3,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

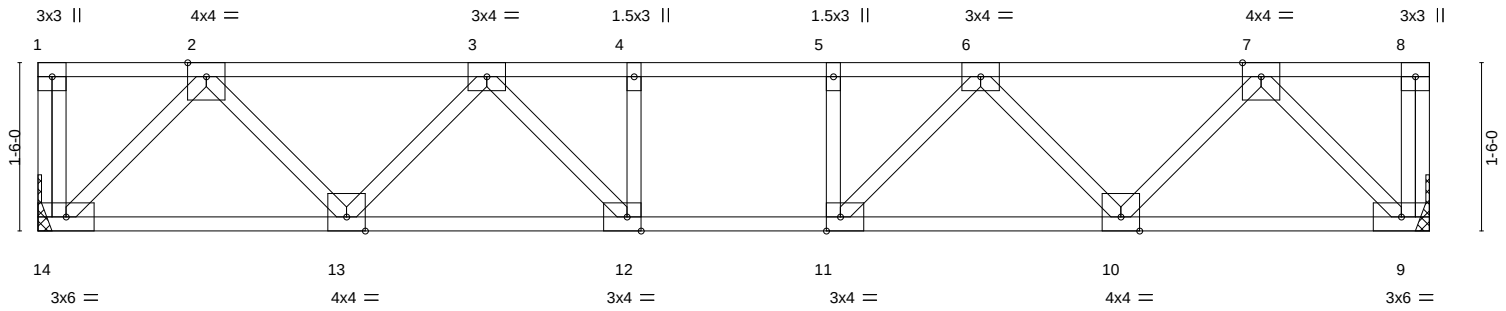
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C1	Floor	6	1	I50026068
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:21 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_GjMr_W9pQtQOT61sgrPh6vXDqBheuv3PEc3QjzpDre

1-3-0 1-7-13

Scale = 1:20.5



12-4-13
12-4-13

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.14	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.16	12-13	>914	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=Mechanical
Max Grav 14=1215(LC 1), 9=1215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1767/0, 3-4=-2646/0, 4-5=-2646/0, 5-6=-2646/0, 6-7=-1767/0
BOT CHORD 13-14=0/1135, 12-13=0/2381, 11-12=0/2646, 10-11=0/2381, 9-10=0/1135
WEBS 2-14=-1606/0, 2-13=0/939, 3-13=-913/0, 3-12=-37/729, 4-12=-409/0, 7-9=-1606/0, 7-10=0/939, 6-10=-913/0, 6-11=-37/729, 5-11=-409/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

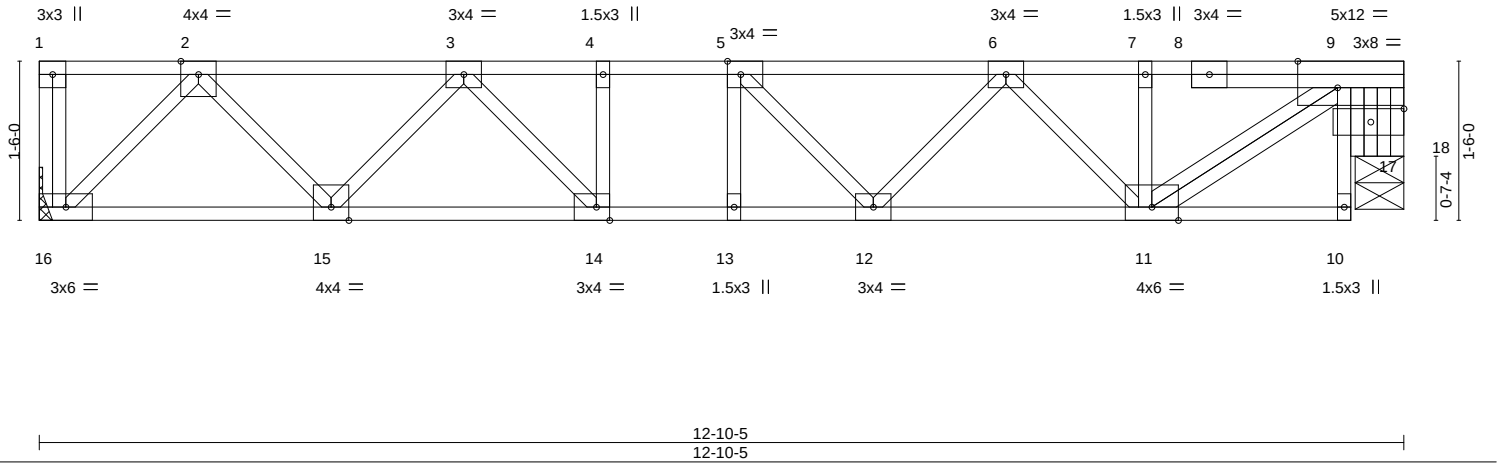
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C2	Floor	2	1	I50026069
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:24 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-PrPVT0Z16LF?FxrcYoP6JkX1v1C0rEWW5Bqj01zpDrb

1-3-0 | 1-1-5 | 1-9-0

Scale = 1:21.7



12-10-5
12-10-5

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [9:0-4-8,Edge], [14:0-1-8,Edge], [18:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 9-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 18=0-5-8
Max Grav 16=1234(LC 1), 18=1201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1794/0, 3-4=-2752/0, 4-5=-2752/0, 5-6=-2530/0, 6-7=-1497/0, 7-9=-1492/0
BOT CHORD	15-16=0/1150, 14-15=0/2443, 13-14=0/2752, 12-13=0/2752, 11-12=0/2256
WEBS	2-16=-1627/0, 2-15=0/957, 3-15=-964/0, 3-14=-38/733, 4-14=-298/0, 9-11=0/1662, 6-11=-1070/0, 6-12=0/484, 5-12=-553/46, 5-13=-280/139, 9-18=-1235/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C3	Floor	5	1	I50026070
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-t2ztgMZgtfNst5Qo5WwLsy3CzRbjakmfKraGZUzpDra

1-9-0 | 1-3-0 | 0-8-9 | 1-9-0

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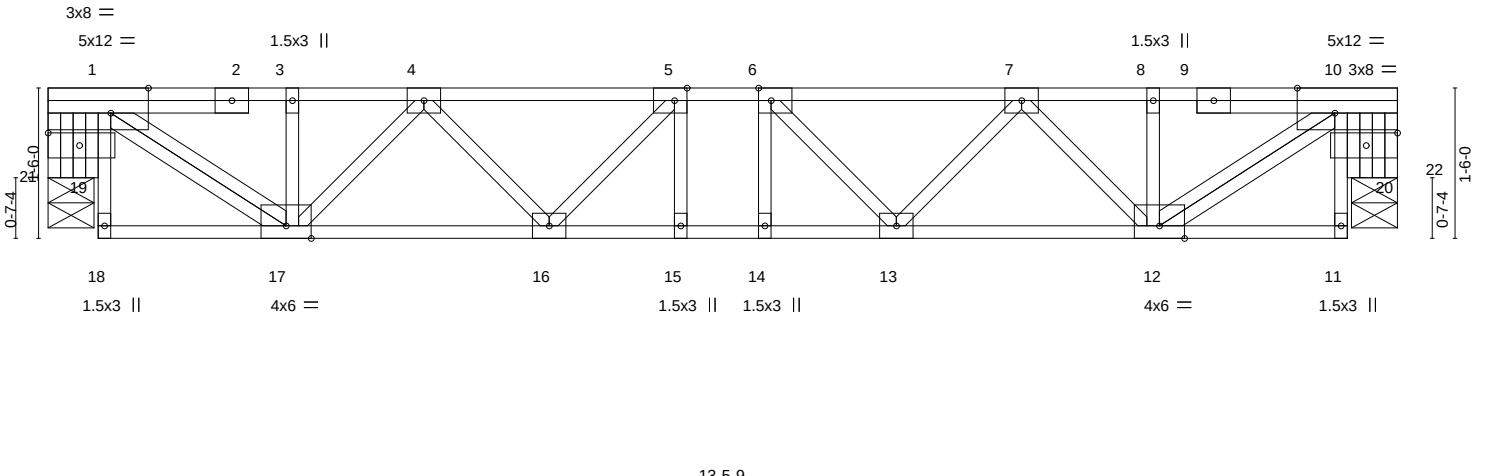

13-5-9
13-5-9

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-4-8,Edge], [21:0-3-12,0-1-8], [22:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.10	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 91 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-17,10-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 21=0-5-8, 22=0-5-8
Max Grav 21=1234(LC 1), 22=1234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1543/0, 3-4=-1548/0, 4-5=-2639/0, 5-6=-2954/0, 6-7=-2639/0, 7-8=-1548/0, 8-10=-1543/0
BOT CHORD	16-17=0/2327, 15-16=0/2954, 14-15=0/2954, 13-14=0/2954, 12-13=0/2327
WEBS	1-17=0/1723, 10-12=0/1723, 7-12=-1098/0, 7-13=0/512, 6-13=-623/0, 6-14=-285/294, 4-17=-1098/0, 4-16=0/512, 5-16=-623/0, 5-15=-285/294, 1-21=-1268/0, 10-22=-1268/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 21, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C4	Floor	12	1	I50026071
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:26 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-LEXFuialezVjUE??fDRaO9cSsr0hJ9ppZVJq5wzpDrZ

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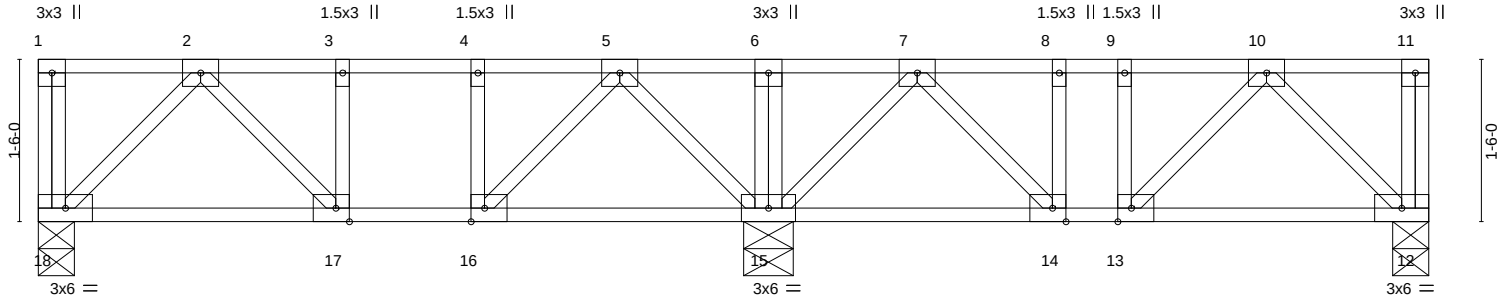

6-9-0 12-10-4
6-9-0 6-1-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	17-18	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=942(LC 10), 12=895(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1056/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-20/612, 6-7=-20/612, 7-8=-979/0, 8-9=-979/0, 9-10=-979/0
BOT CHORD 17-18=0/769, 16-17=0/1056, 15-16=-36/619, 14-15=-87/715, 13-14=0/979, 12-13=0/725
WEBS 6-15=-432/0, 2-18=-1088/0, 2-17=0/416, 5-15=-1214/0, 5-16=0/715, 4-16=-464/0, 3-17=-302/0, 7-15=-1164/0, 7-14=0/639, 10-12=-1026/0, 10-13=-27/367, 8-14=-398/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C5	Floor	3	1	I50026072
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:27 2022 Page 1
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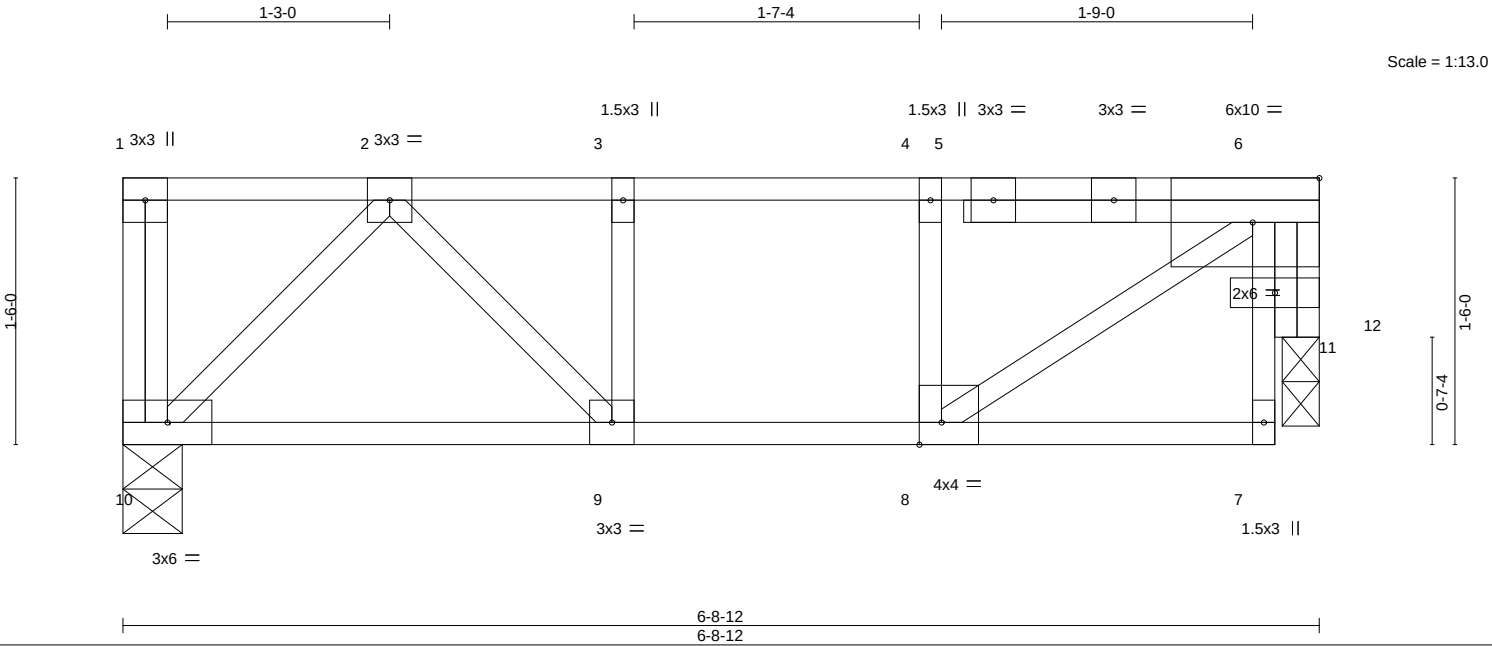

Plate Offsets (X,Y)-- [6:0-4-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.08	9-10	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 12=0-2-8
Max Grav 10=968(LC 1), 12=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1092/0, 3-4=-1092/0, 4-6=-1098/0
BOT CHORD	9-10=0/790, 8-9=0/1092
WEBS	6-8=0/1195, 4-8=-621/0, 2-10=-1118/0, 2-9=0/567, 3-9=-355/0, 6-12=-946/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C5A	Floor	3	1	I50026073
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:29 2022 Page 1
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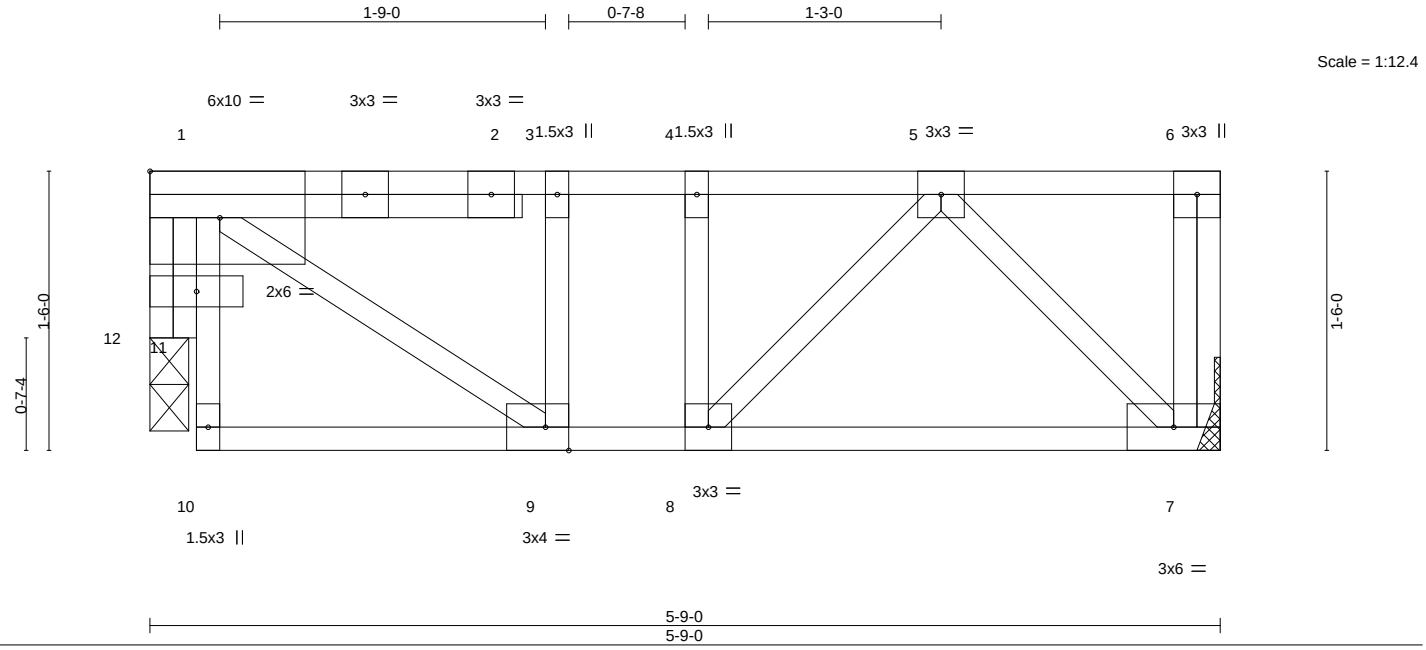

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 12=0-2-8
Max Grav 7=821(LC 1), 12=773(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-820/0, 3-4=-812/0, 4-5=-812/0
BOT CHORD 8-9=0/812, 7-8=0/651
WEBS 1-9=0/856, 3-9=-447/0, 5-7=-921/0, 5-8=0/337, 1-12=-801/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C6	Floor	3	1	I50026074
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:31 2022 Page 1
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1-3-0 0-9-8 0-5-12

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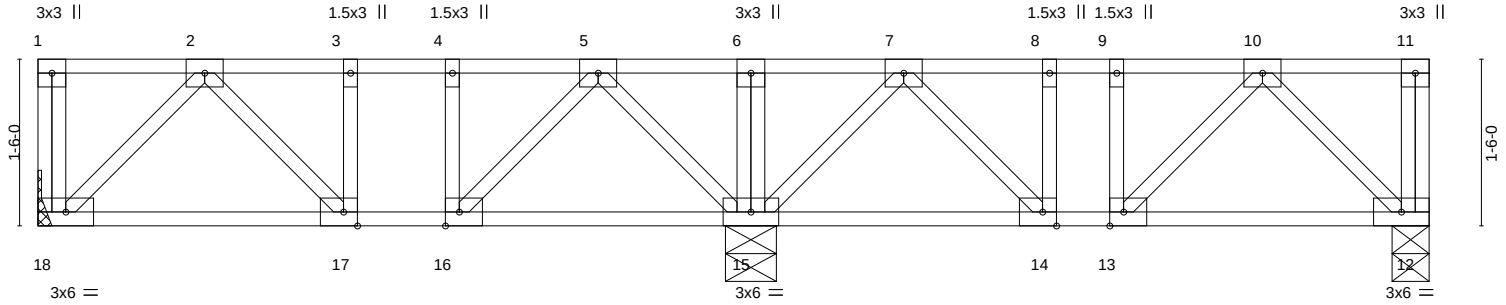

6-5-0 12-6-4
6-5-0 6-1-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	17-18	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 18=885(LC 10), 12=864(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-942/0, 3-4=-942/0, 4-5=-942/0, 5-6=0/574, 6-7=0/574, 7-8=-911/0, 8-9=-911/0, 9-10=-911/0
BOT CHORD 17-18=0/714, 16-17=0/942, 15-16=-78/558, 14-15=-106/611, 13-14=0/911, 12-13=0/694
WEBS 6-15=-429/0, 2-18=-1010/0, 2-17=-18/330, 5-15=-1174/0, 5-16=0/655, 4-16=-419/0, 7-15=-1153/0, 7-14=0/623, 8-14=-390/0, 10-12=-982/0, 10-13=-36/315

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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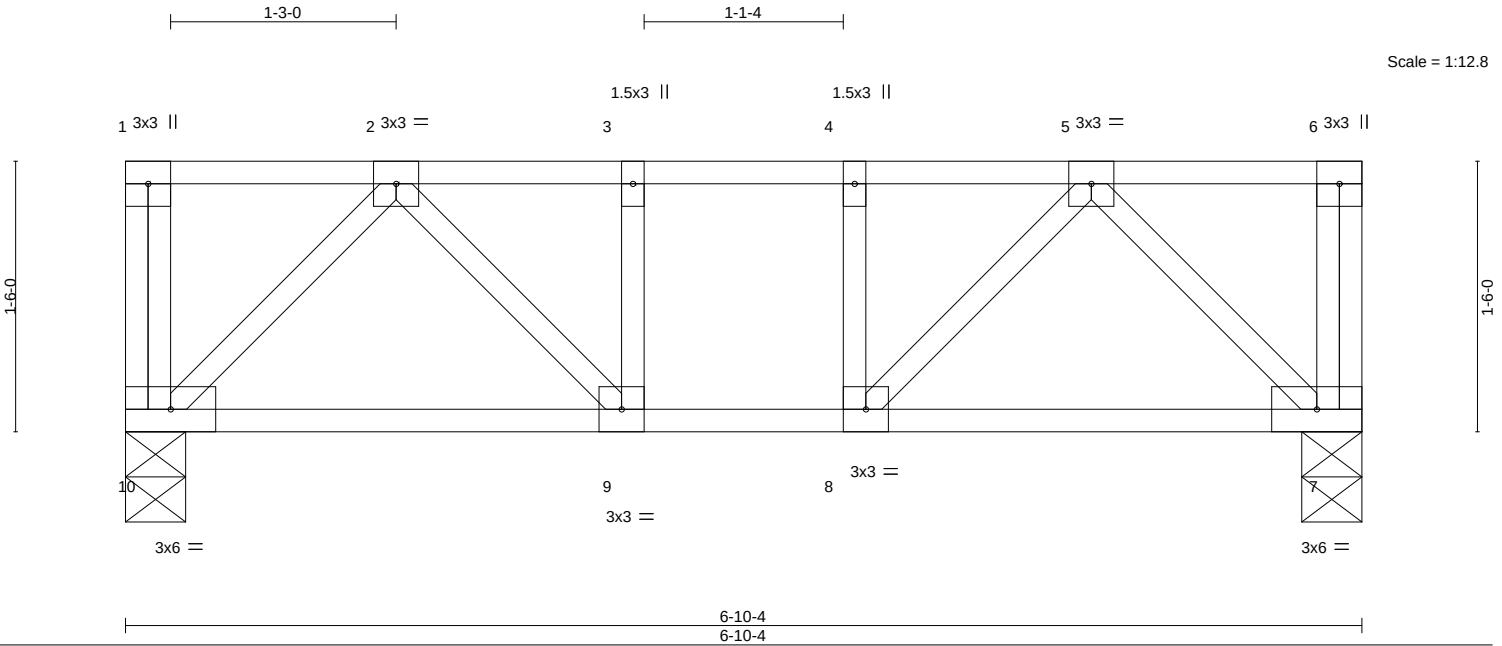
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C7	Floor	37	1	I50026075
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:31 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hBK8xPeQSV7?b0tySm1l5DJLIsk__SbYin1bm8zpDrU



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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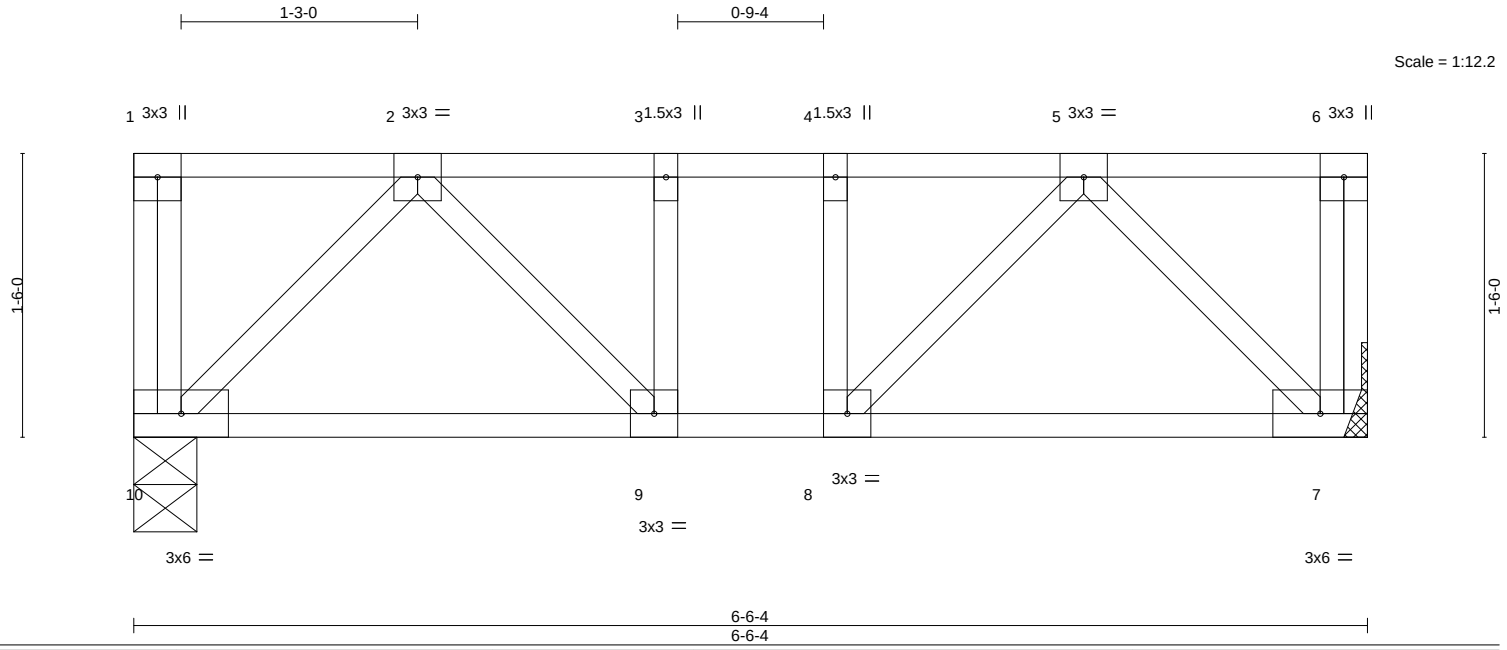
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C8	Floor	21	1	I50026076
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:32 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-AOuW8lf3DpFsC9S80UY_eQsXPF5BjvDhxRm8IazpDrT



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/640, 8-9=0/891, 7-8=0/640
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C9	Floor	9	1	I50026077
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:33 2022 Page 1
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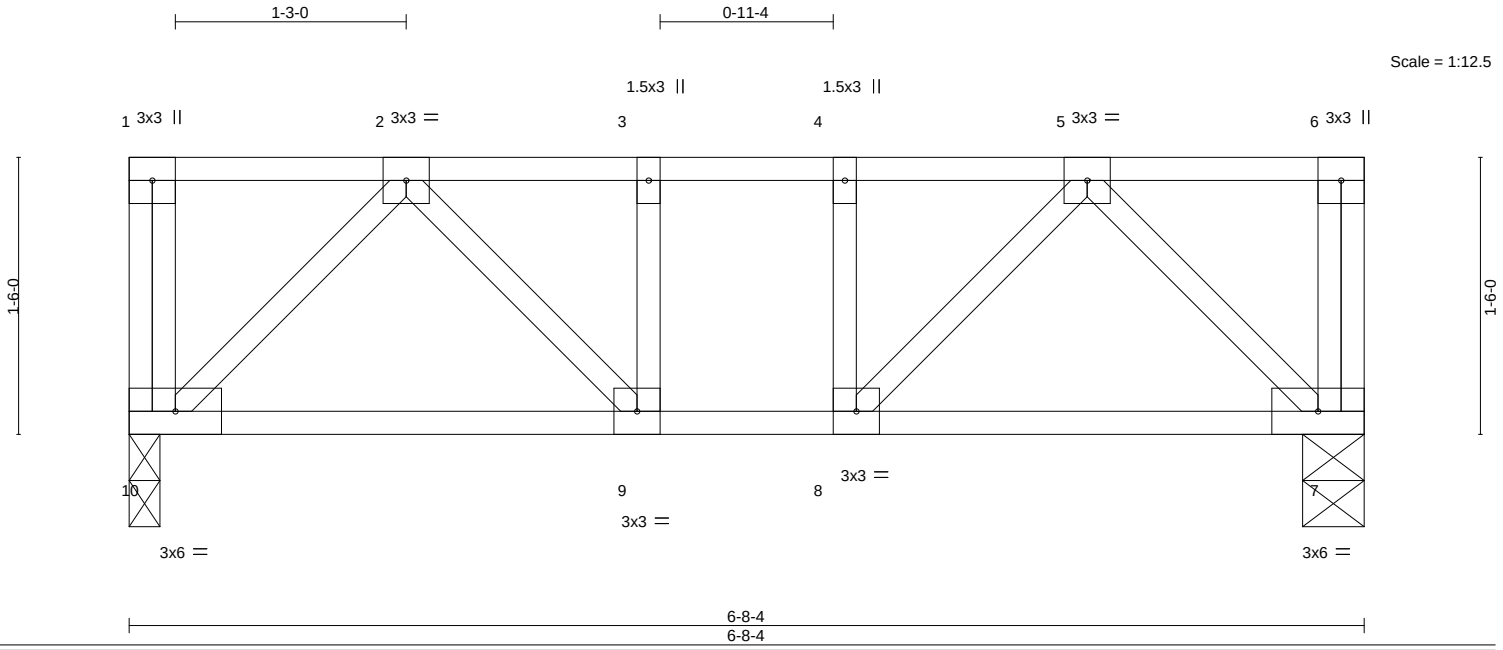

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/468, 3-9=-266/0, 5-7=-934/0, 5-8=0/468, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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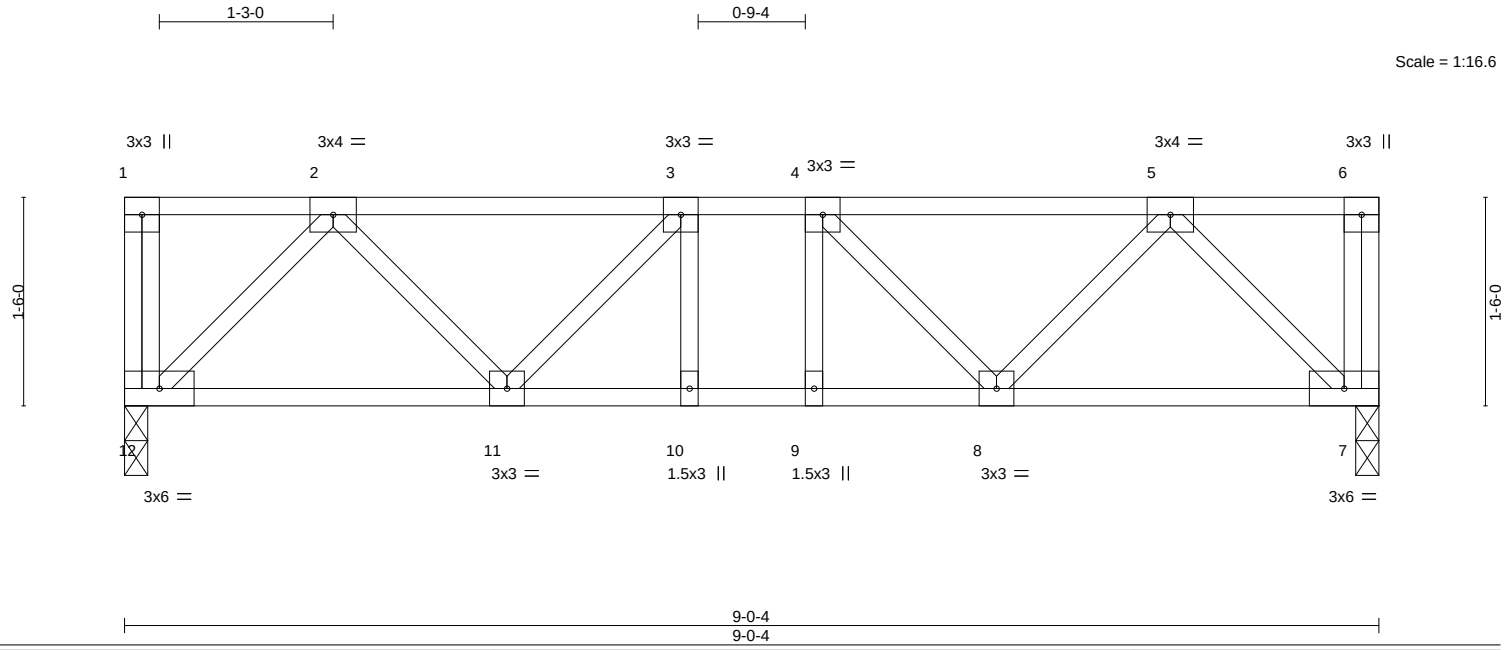
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	C10	Floor	2	1	I50026078
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-STHk2KXnak?H0dhDQNMeEJRi0DYyNMqDeuLcy9zpDrd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-0
Max Grav 12=1096(LC 1), 7=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1400/0, 3-4=-1793/0, 4-5=-1400/0
BOT CHORD	11-12=0/1001, 10-11=0/1793, 9-10=0/1793, 8-9=0/1793, 7-8=0/1001
WEBS	2-12=-1416/0, 2-11=0/593, 3-11=-594/0, 5-7=-1416/0, 5-8=0/593, 4-8=-594/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F1	Floor	17	1	I50026079
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:34 2022 Page 1
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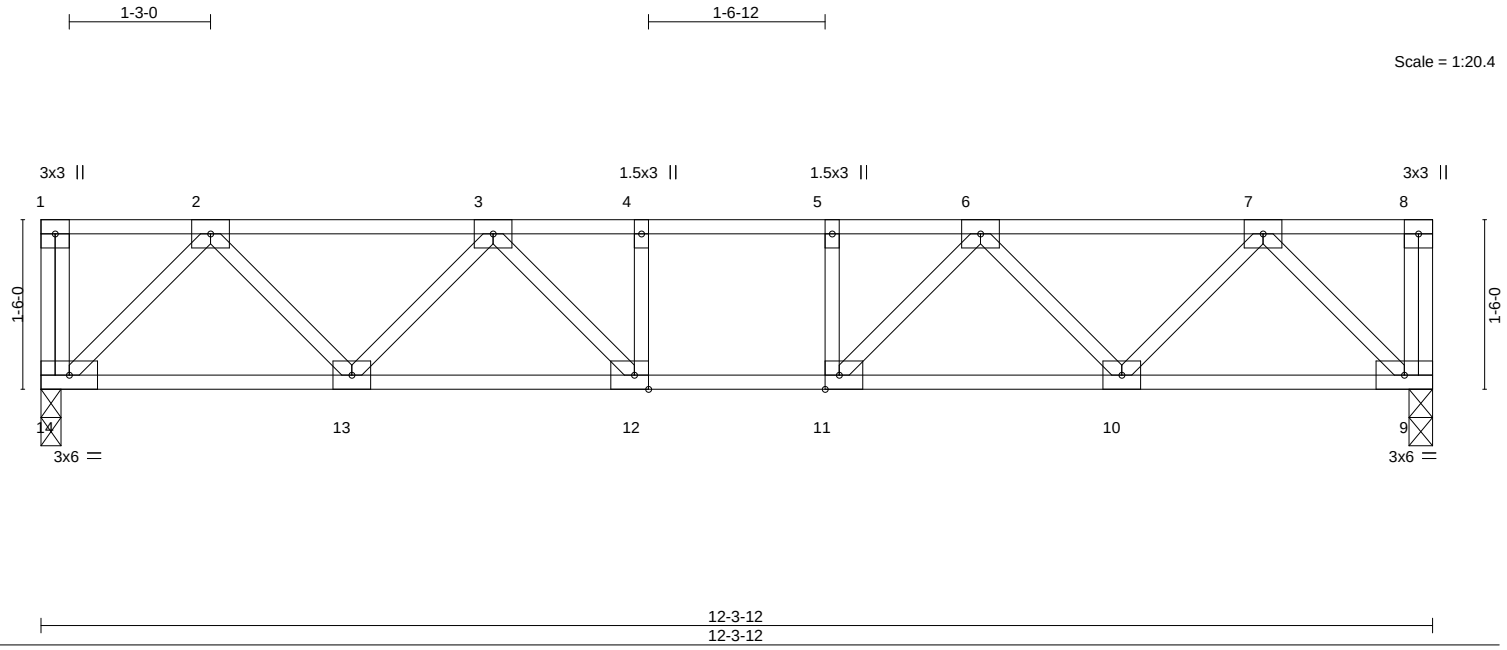

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-2-8
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F2	Floor	26	1	I50026080
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:50 2022 Page 1
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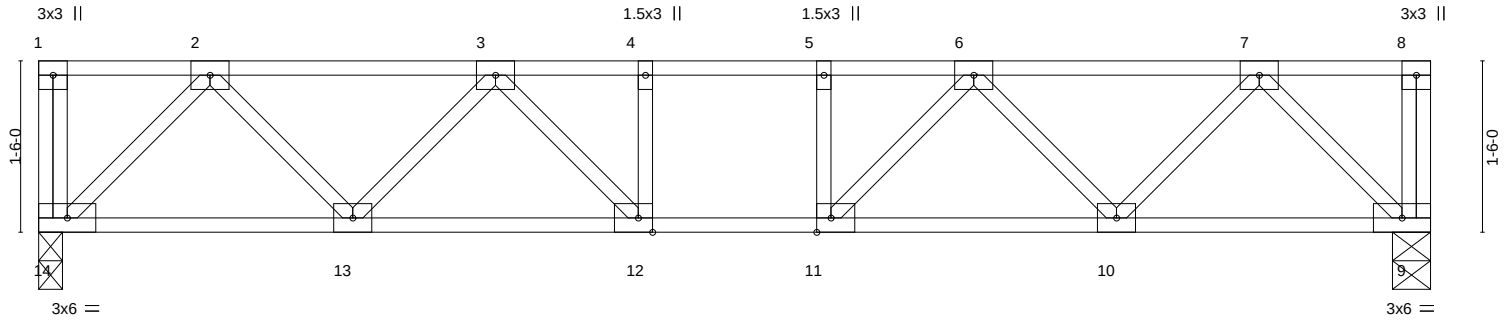

12-2-4
12-2-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-4-0
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F3	Floor	4	1	I50026081
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:10 2022 Page 1
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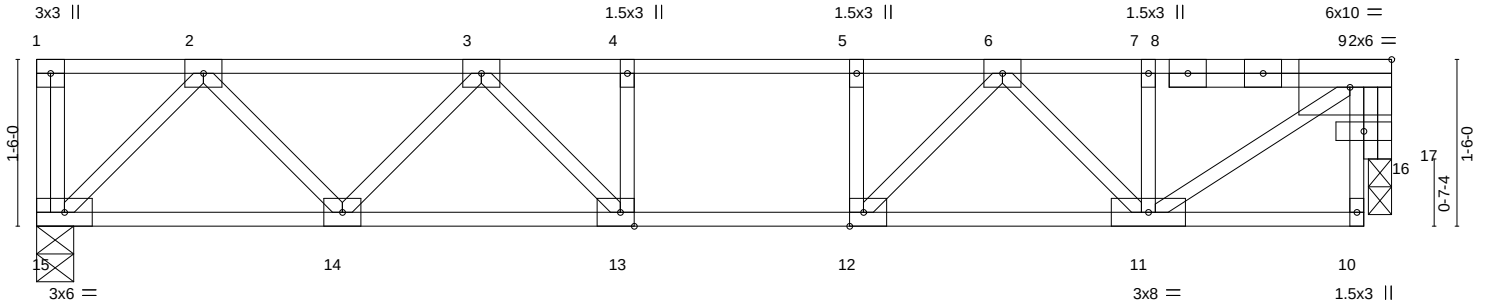

12-2-4
12-2-4

Plate Offsets (X,Y)-- [9:0-4-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 9-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1126/0, 3-4=-1646/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-966/0, 7-9=-970/0
BOT CHORD	14-15=0/719, 13-14=0/1500, 12-13=0/1646, 11-12=0/1358
WEBS	2-15=-1017/0, 2-14=0/605, 3-14=-556/0, 3-13=0/394, 9-11=0/1071, 6-11=-567/0, 6-12=0/537, 5-12=-302/0, 9-17=-774/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F4	Floor	1	1	I50026082
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:29 2022 Page 1
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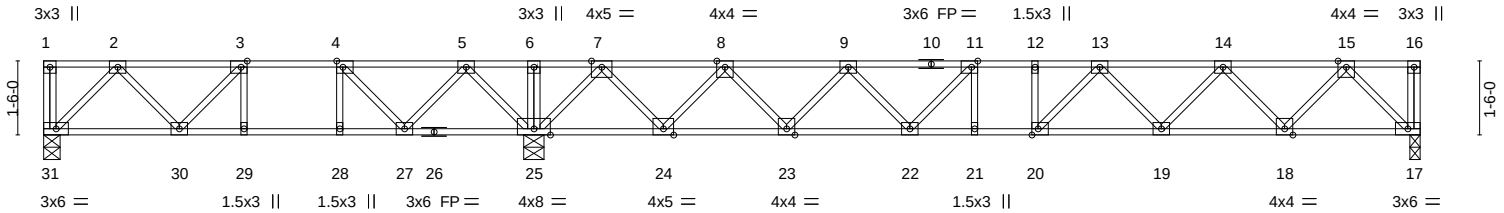

9-11-5 27-11-0
9-11-5 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.17	21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.26	21	>831	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 25=0-4-15
Max Grav 31=528(LC 3), 17=1050(LC 7), 25=2165(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-651/82, 3-4=-739/340, 4-5=-288/799, 5-6=0/1823, 6-7=0/1823, 7-8=-642/0, 8-9=-2043/0, 9-11=-2833/0, 11-12=-3076/0, 12-13=-3076/0, 13-14=-2642/0, 14-15=-1653/0
BOT CHORD 30-31=0/488, 29-30=-340/739, 28-29=-340/739, 27-28=-340/739, 25-27=-1137/0, 24-25=-605/0, 23-24=0/1482, 22-23=0/2580, 21-22=0/3076, 20-21=0/3076, 19-20=0/2971, 18-19=0/2292, 17-18=0/989
WEBS 5-25=-1081/0, 5-27=0/772, 4-27=-958/0, 2-31=-690/0, 3-30=-128/374, 3-29=-308/0, 4-28=0/338, 15-17=-1398/0, 15-18=0/988, 14-18=-950/0, 14-19=0/520, 13-19=-489/0, 13-20=-163/368, 7-25=-1722/0, 7-24=0/1317, 8-24=-1293/0, 8-23=0/877, 9-23=-839/0, 9-22=0/478, 11-22=-542/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F5	Floor	1	1	I50026083
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:45 2022 Page 1
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1-3-0 1-0-13 1-10-3

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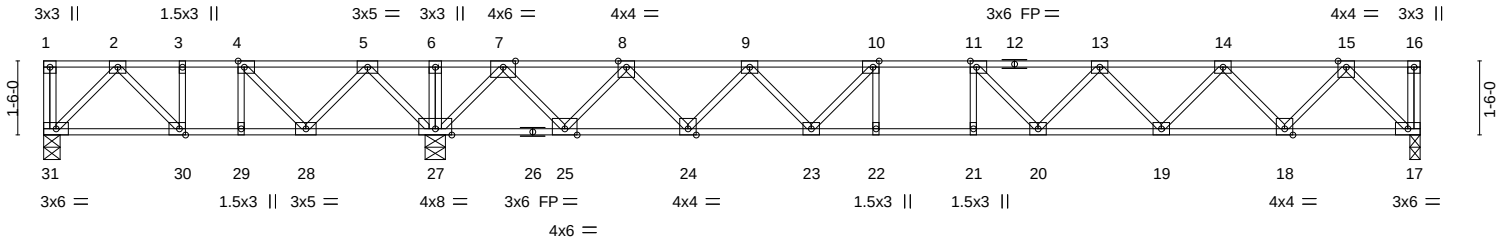

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-11-5 27-11-0
7-11-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	20-21	>666	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 27=0-4-15
Max Uplift 31=-166(LC 4)
Max Grav 31=324(LC 3), 17=1149(LC 7), 27=2350(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-268/587, 3-4=-268/587, 4-5=0/1116, 5-6=0/2252, 6-7=0/2252, 7-8=-334/95, 8-9=-2028/0, 9-10=-3112/0, 10-11=-3617/0, 11-13=-3583/0, 13-14=-3013/0, 14-15=-1839/0
BOT CHORD	29-30=-587/268, 28-29=-587/268, 27-28=-1546/0, 25-27=-892/0, 24-25=0/1325, 23-24=0/2697, 22-23=0/3617, 21-22=0/3617, 20-21=0/3617, 19-20=0/3453, 18-19=0/2561, 17-18=0/1089
WEBS	2-31=-349/286, 2-30=-557/31, 5-27=-1128/0, 5-28=0/811, 4-28=-924/0, 4-29=0/261, 3-30=-29/263, 7-27=-1923/0, 7-25=0/1516, 8-25=-1495/0, 8-24=0/1067, 9-24=-1014/0, 9-23=0/671, 10-23=-900/0, 15-17=-1540/0, 15-18=0/1115, 14-18=-1074/0, 14-19=0/673, 13-19=-654/0, 13-20=0/309, 11-20=-319/247, 11-21=-320/57, 10-22=-26/351

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 31.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F6	Floor	6	1	I50026084
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:58 2022 Page 1
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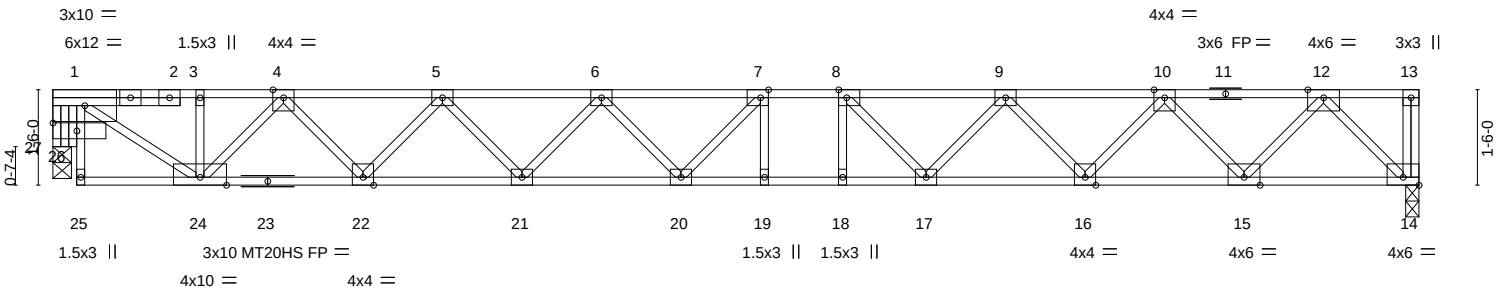

21-5-12
21-5-12

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [14:Edge,0-1-8], [26:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.32	19-20	>792	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.52	19-20	>487	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-24: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 27=0-3-8
Max Grav 14=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1883/0, 3-4=-1880/0, 4-5=-3583/0, 5-6=-4691/0, 6-7=-5190/0, 7-8=-5224/0, 8-9=-4823/0, 9-10=-3848/0, 10-12=-2266/0
BOT CHORD	22-24=0/2868, 21-22=0/4274, 20-21=0/5092, 19-20=0/5224, 18-19=0/5224, 17-18=0/5224, 16-17=0/4471, 15-16=0/3198, 14-15=0/1311
WEBS	1-24=0/2080, 4-24=-1431/0, 4-22=0/1062, 5-22=-1027/0, 5-21=0/621, 6-21=-595/0, 6-20=-71/346, 12-14=-1854/0, 12-15=0/1420, 10-15=-1385/0, 10-16=0/967, 9-16=-926/0, 9-17=0/615, 8-17=-771/0, 7-20=-394/271, 7-19=-305/137, 8-18=-116/325, 1-27=-1394/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F7	Floor	2	1	I50026085
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:00 2022 Page 1
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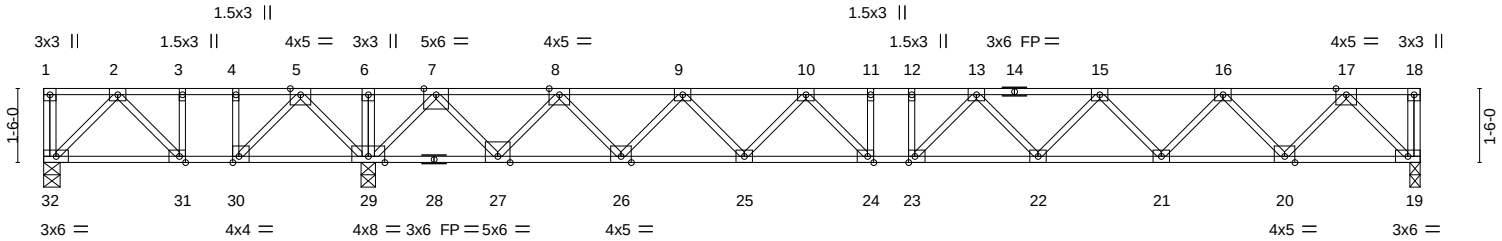

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-7-0 27-11-0
6-7-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.25	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.40	22-23	>636	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-14: 2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-419(LC 4)
Max Grav 32=182(LC 3), 19=1204(LC 7), 29=2570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=0/1167, 3-4=0/1167, 4-5=0/1167, 5-6=0/2795, 6-7=0/2795, 7-8=-42/309, 8-9=-1833/0, 9-10=-3133/0, 10-11=-3956/0, 11-12=-3956/0, 12-13=-3956/0, 13-15=-3902/0, 15-16=-3217/0, 16-17=-1945/0
BOT CHORD	31-32=-445/107, 30-31=-1167/0, 29-30=-2026/0, 27-29=-1325/0, 26-27=0/1020, 25-26=0/2625, 24-25=0/3631, 23-24=0/3956, 22-23=0/4071, 21-22=0/3696, 20-21=0/2721, 19-20=0/1143
WEBS	2-32=-151/630, 2-31=-1045/0, 3-31=0/581, 5-29=-1266/0, 5-30=0/1391, 4-30=-780/0, 7-29=-2080/0, 7-27=0/1686, 8-27=-1639/0, 8-26=0/1221, 9-26=-1187/0, 9-25=0/767, 10-25=-752/0, 10-24=0/689, 17-19=-1617/0, 17-20=0/1193, 16-20=-1153/0, 16-21=0/737, 15-21=-712/0, 15-22=0/335, 13-22=-306/0, 13-23=-424/218, 11-24=-353/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 419 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F8	Floor	6	1	I50026086
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:02 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-XiKY1WkW1Sb5??LRHN94HPau4XqboevxdRavTMzpDq3

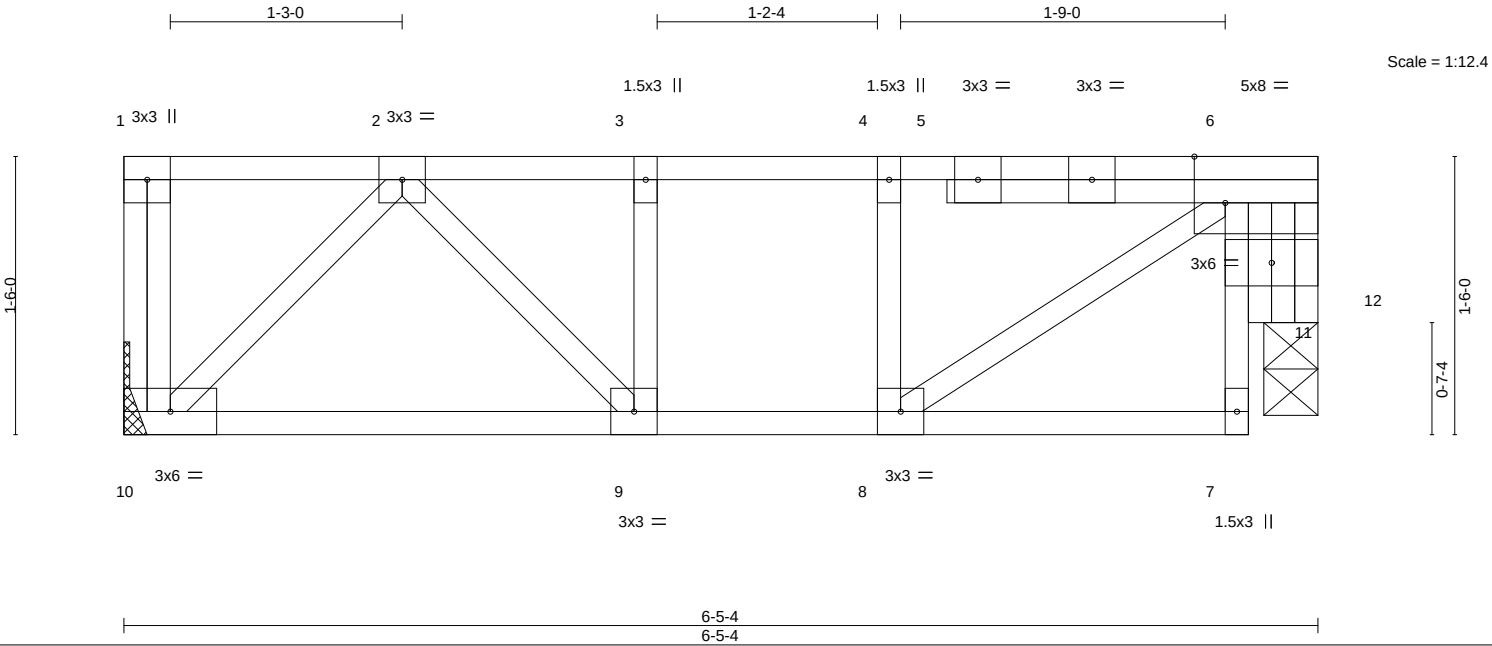

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=395(LC 1), 12=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-427/0, 3-4=-427/0, 4-6=-430/0
BOT CHORD	9-10=0/317, 8-9=0/427
WEBS	6-8=0/451, 2-10=-448/0, 6-12=-386/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F9	Floor	1	1	I50026087
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-?uuwFsl8omjyd9ver5gJqc71Vx2NX0Y4s5JS?ozpDq2

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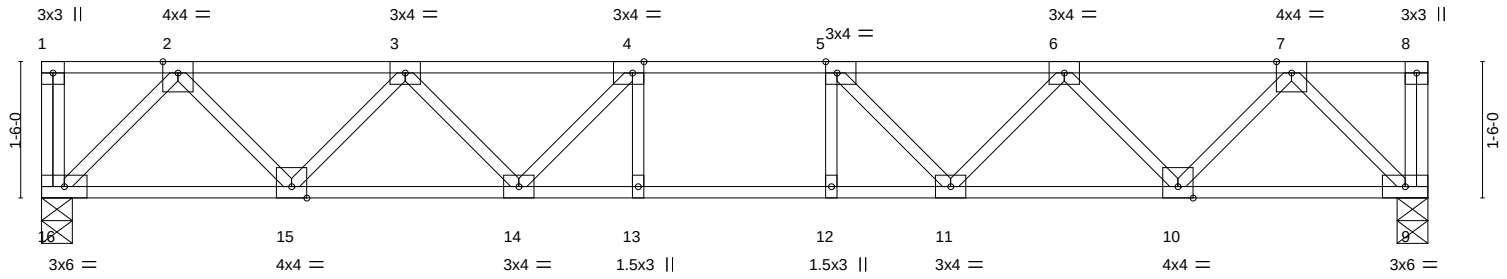

15-3-0
15-3-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.13	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.18	13-14	>980	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-1, 9=0-4-1
Max Grav 16=975(LC 1), 9=975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1511/0, 3-4=-2361/0, 4-5=-2638/0, 5-6=-2361/0, 6-7=-1511/0
BOT CHORD 15-16=0/914, 14-15=0/2081, 13-14=0/2638, 12-13=0/2638, 11-12=0/2638, 10-11=0/2081, 9-10=0/914
WEBS 2-16=-1292/0, 2-15=0/888, 3-15=-848/0, 3-14=0/465, 4-14=-563/0, 7-9=-1292/0, 7-10=0/888, 6-10=-848/0, 6-11=0/465, 5-11=-563/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F10	Floor	6	1	I50026088
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:35 2022 Page 1
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1-3-0 1-6-6 1-2-0

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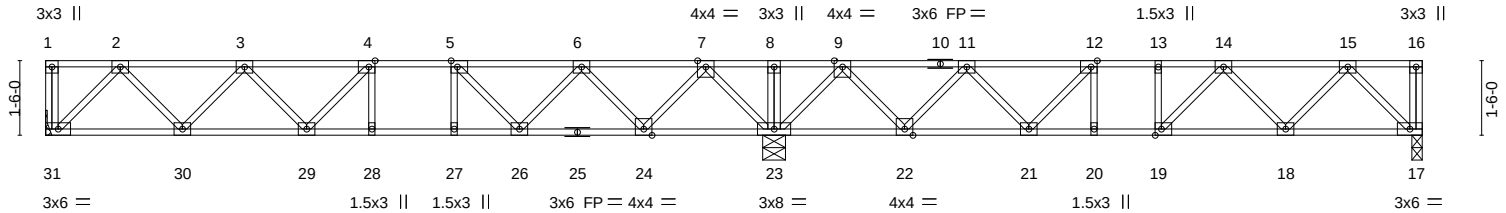

14-7-14 27-8-6
14-7-14 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.10	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.15	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=830(LC 3), 17=718(LC 4), 23=2126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1236/0, 3-4=-1820/0, 4-5=-1886/0, 5-6=-1468/0, 6-7=-463/371, 7-8=0/1679, 8-9=0/1679, 9-11=-345/477, 11-12=-1172/7, 12-13=-1433/0, 13-14=-1433/0, 14-15=-1018/0
BOT CHORD 30-31=0/765, 29-30=0/1686, 28-29=0/1886, 27-28=0/1886, 26-27=0/1886, 24-26=-79/1103, 23-24=-766/0, 22-23=-788/0, 21-22=-200/905, 20-21=0/1433, 19-20=0/1433, 18-19=0/1346, 17-18=0/662
WEBS 2-31=-1082/0, 2-30=0/699, 3-30=-669/0, 7-23=-1457/0, 7-24=0/1053, 6-24=-1010/0, 6-26=0/611, 5-26=-753/0, 5-27=0/285, 4-28=-260/0, 9-23=-1334/0, 9-22=0/942, 11-22=-908/0, 11-21=0/491, 15-17=-936/0, 15-18=0/529, 14-18=-489/0, 12-21=-561/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F11	Floor	2	1	I50026089
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-2971_6iZH1mIhnmwFJcwoG0AUtIdfgJHs3kMSLzpDrP

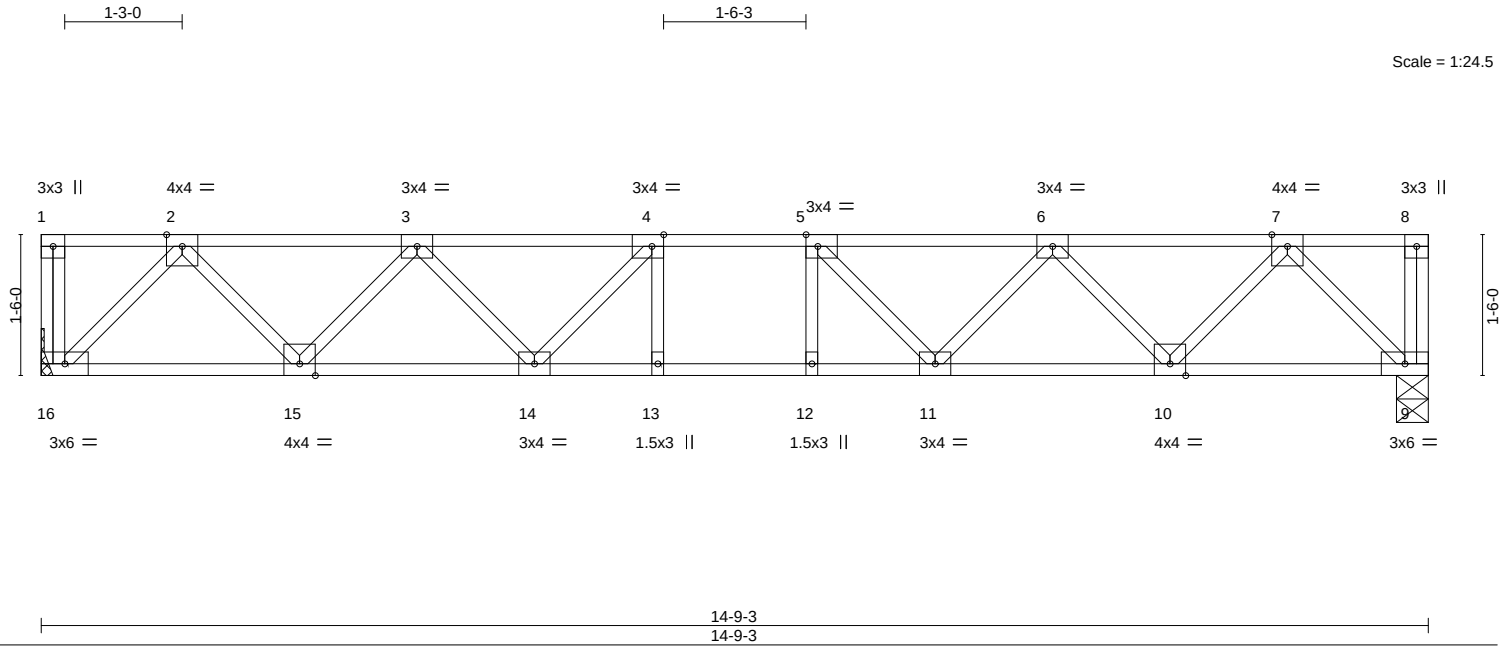

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-4-1
Max Grav 16=944(LC 1), 9=944(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1451/0, 3-4=-2242/0, 4-5=-2484/0, 5-6=-2242/0, 6-7=-1451/0
BOT CHORD 15-16=0/882, 14-15=0/1994, 13-14=0/2484, 12-13=0/2484, 11-12=0/2484, 10-11=0/1994, 9-10=0/882
WEBS 2-16=-1247/0, 2-15=0/847, 3-15=-808/0, 3-14=0/418, 4-14=-490/0, 7-9=-1247/0, 7-10=0/847, 6-10=-808/0, 6-11=0/418, 5-11=-490/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F12	Floor	1	1	I50026090
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:37 2022 Page 1
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1-3-0 0-11-3 1-7-3

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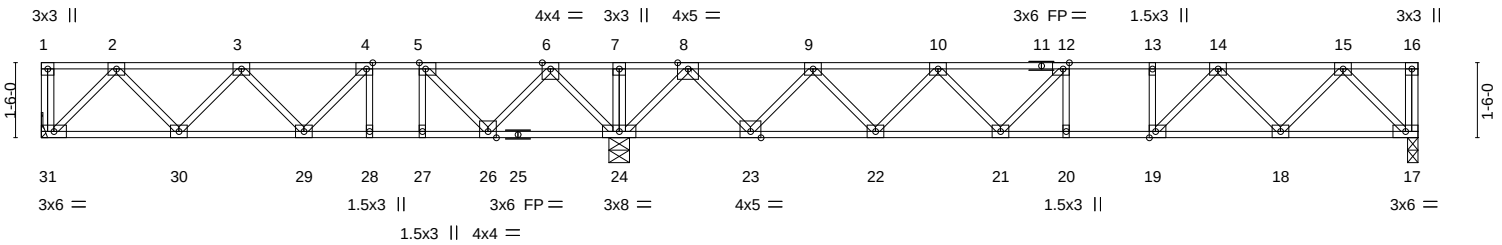

11-6-11 27-6-6
11-6-11 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.12	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.19	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 24=0-4-15
Max Grav 31=622(LC 3), 17=870(LC 4), 24=2200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-841/5, 3-4=-1044/248, 4-5=-875/549, 5-6=-289/1003, 6-7=0/2026, 7-8=0/2026, 9-10=-1333/0, 10-12=-1974/0, 12-13=-2083/0, 13-14=-2083/0, 14-15=-1297/0
BOT CHORD 30-31=0/556, 29-30=-60/1108, 28-29=-549/875, 27-28=-549/875, 26-27=-549/875, 24-26=-1373/0, 23-24=-932/0, 22-23=0/841, 21-22=0/1805, 20-21=0/2083, 19-20=0/2083, 18-19=0/1777, 17-18=0/812
WEBS 2-31=-786/0, 2-30=-55/423, 3-30=-397/82, 3-29=-329/0, 4-29=0/570, 4-28=-413/0, 6-24=-1249/0, 6-26=0/924, 5-26=-1095/0, 5-27=0/431, 15-17=-1149/0, 15-18=0/721, 14-18=-713/0, 14-19=0/526, 8-24=-1593/0, 8-23=0/1188, 9-23=-1163/0, 9-22=0/755, 10-22=-725/0, 10-21=0/350, 12-21=-366/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F13	Floor	1	1	I50026091
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:39 2022 Page 1
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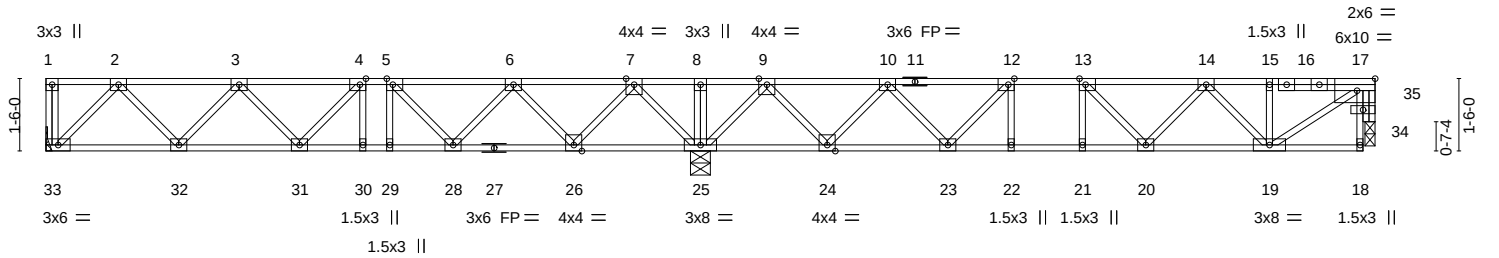

13-6-11 27-6-6
13-6-11 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.12	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	35	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 33=Mechanical, 25=0-4-15, 35=0-2-8
Max Grav 33=749(LC 3), 25=2134(LC 1), 35=750(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1082/0, 3-4=-1521/0, 4-5=-1554/0, 5-6=-1238/24, 6-7=-346/520, 7-8=0/1774, 8-9=0/1774, 9-10=-328/448, 10-12=-1273/0, 12-13=-1642/0, 13-14=-1544/0, 14-15=-949/0, 15-17=-953/0
BOT CHORD 32-33=0/687, 31-32=0/1452, 30-31=0/1554, 29-30=0/1554, 28-29=0/1554, 26-28=-227/936, 25-26=-876/0, 24-25=-871/0, 23-24=-160/941, 22-23=0/1642, 21-22=0/1642, 20-21=0/1642, 19-20=0/1393
WEBS 2-33=-972/0, 2-32=0/587, 3-32=-551/0, 4-30=-256/26, 7-25=-1385/0, 7-26=0/991, 6-26=-956/0, 6-28=0/535, 5-28=-596/0, 5-29=-14/268, 9-25=-1416/0, 9-24=0/1016, 10-24=-976/0, 10-23=0/570, 12-23=-681/0, 12-22=0/251, 17-19=0/1046, 14-19=-642/0, 17-35=-772/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 35 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F14	Floor	1	1	I50026092
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:41 2022 Page 1
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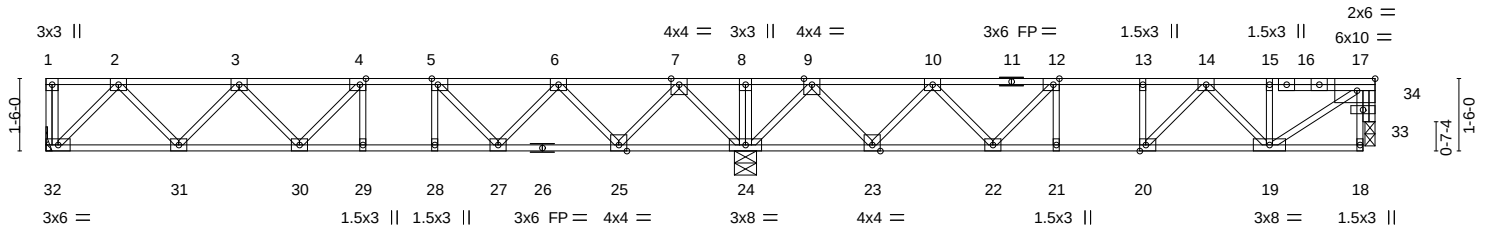
Scale: 1/4"=1'



14-5-14 27-6-6
14-5-14 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.08	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=825(LC 3), 24=2112(LC 1), 34=690(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1226/0, 3-4=-1800/0, 4-5=-1870/0, 5-6=-1478/0, 6-7=-504/414, 7-8=0/1710, 8-9=0/1710, 9-10=-305/420, 10-12=-1140/0, 12-13=-1402/0, 13-14=-1402/0, 14-15=-873/0, 15-17=-877/0
BOT CHORD	31-32=0/760, 30-31=0/1670, 29-30=0/1870, 28-29=0/1870, 27-28=0/1870, 25-27=-120/1131, 24-25=-735/0, 23-24=-834/0, 22-23=-152/869, 21-22=0/1402, 20-21=0/1402, 19-20=0/1209
WEBS	7-24=-1448/0, 7-25=0/1046, 6-25=-1004/0, 6-27=0/600, 5-27=-735/0, 5-28=0/285, 2-32=-1075/0, 2-31=0/692, 3-31=-660/0, 4-29=-262/0, 9-24=-1330/0, 9-23=0/937, 10-23=-903/0, 10-22=0/485, 12-22=-555/0, 17-19=0/964, 14-19=-486/0, 14-20=-58/279, 17-34=-710/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F15	Floor	6	1	I50026093
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:42 2022 Page 1
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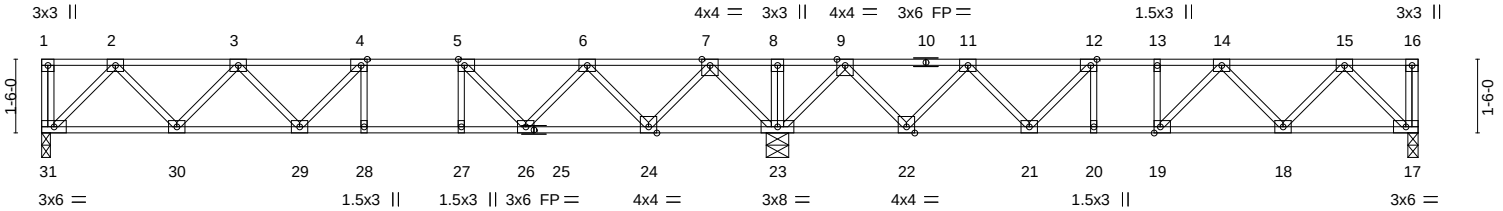

14-11-12 28-0-4
14-11-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>949	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-2, 17=0-2-8, 23=0-5-8
Max Grav 31=856(LC 3), 17=724(LC 4), 23=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1284/0, 3-4=-1915/0, 4-5=-1999/0, 5-6=-1552/0, 6-7=-515/315, 7-8=0/1695, 8-9=0/1695, 9-11=-389/460, 11-12=-1206/0, 12-13=-1458/0, 13-14=-1458/0, 14-15=-1029/0
BOT CHORD 30-31=0/791, 29-30=0/1758, 28-29=0/1999, 27-28=0/1999, 26-27=0/1999, 24-26=-23/1168, 23-24=-760/0, 22-23=-760/0, 21-22=-185/944, 20-21=0/1458, 19-20=0/1458, 18-19=0/1363, 17-18=0/668
WEBS 2-31=-1118/0, 2-30=0/734, 3-30=-704/0, 7-23=-1476/0, 7-24=0/1067, 6-24=-1023/0, 6-26=0/635, 5-26=-787/0, 5-27=0/284, 4-28=-255/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 15-17=-944/0, 15-18=0/537, 14-18=-497/0, 12-21=-555/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F16	Floor	1	1	I50026094
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:44 2022 Page 1
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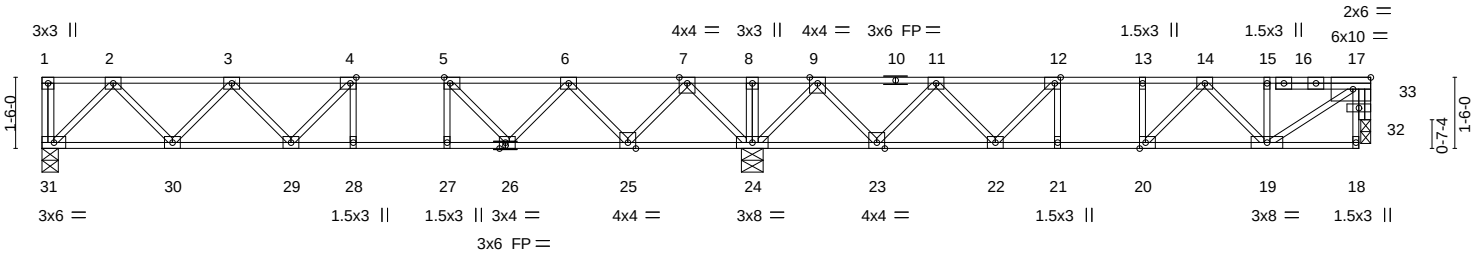

14-11-12 28-0-4
14-11-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.19	28-29	>947	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 24=0-5-8, 33=0-2-8
Max Grav 31=862(LC 3), 24=2125(LC 1), 33=698(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1296/0, 3-4=-1939/0, 4-5=-2034/0, 5-6=-1598/0, 6-7=-573/337, 7-8=0/1657, 8-9=0/1657, 9-11=-365/405, 11-12=-1185/0, 12-13=-1434/0, 13-14=-1434/0, 14-15=-885/0, 15-17=-888/0
BOT CHORD	30-31=0/797, 29-30=0/1775, 28-29=0/2034, 27-28=0/2034, 26-27=0/2034, 25-26=-44/1221, 24-25=-725/0, 23-24=-769/0, 22-23=-138/922, 21-22=0/1434, 20-21=0/1434, 19-20=0/1228
WEBS	7-24=-1478/0, 7-25=0/1069, 6-25=-1025/0, 6-26=0/638, 5-26=-791/0, 5-27=0/286, 2-31=-1128/0, 2-30=0/742, 3-30=-712/0, 4-28=-258/0, 9-24=-1329/0, 9-23=0/936, 11-23=-903/0, 11-22=0/484, 12-22=-549/0, 17-19=0/977, 14-19=-498/0, 14-20=-53/297, 17-33=-718/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F17	Floor	1	1	I50026095
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:46 2022 Page 1
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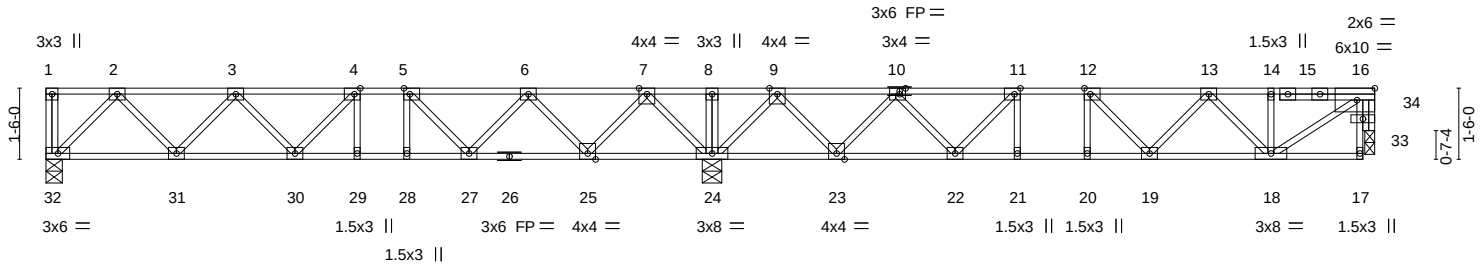

14-0-9 | 28-0-4
14-0-9 | 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.12	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 16-18: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-2, 24=0-4-15, 34=0-2-8
Max Grav 32=784(LC 3), 24=2157(LC 1), 34=754(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1148/0, 3-4=-1646/0, 4-5=-1690/0, 5-6=-1327/0, 6-7=-382/473, 7-8=0/1760, 8-9=0/1760, 9-10=-360/464, 10-11=-1298/0, 11-12=-1661/0, 12-13=-1557/0, 13-14=-955/0, 14-16=-959/0
BOT CHORD	31-32=0/720, 30-31=0/1553, 29-30=0/1690, 28-29=0/1690, 27-28=0/1690, 25-27=-179/997, 24-25=-793/0, 23-24=-858/0, 22-23=-175/970, 21-22=0/1661, 20-21=0/1661, 19-20=0/1661, 18-19=0/1402
WEBS	2-32=-1018/0, 2-31=0/636, 3-31=-602/0, 4-29=-251/0, 7-24=-1421/0, 7-25=0/1022, 6-25=-983/0, 6-27=0/571, 5-27=-675/0, 5-28=0/269, 9-24=-1415/0, 9-23=0/1015, 10-23=-974/0, 10-22=0/568, 11-22=-684/0, 11-21=0/252, 16-18=0/1053, 13-18=-647/0, 16-34=-776/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

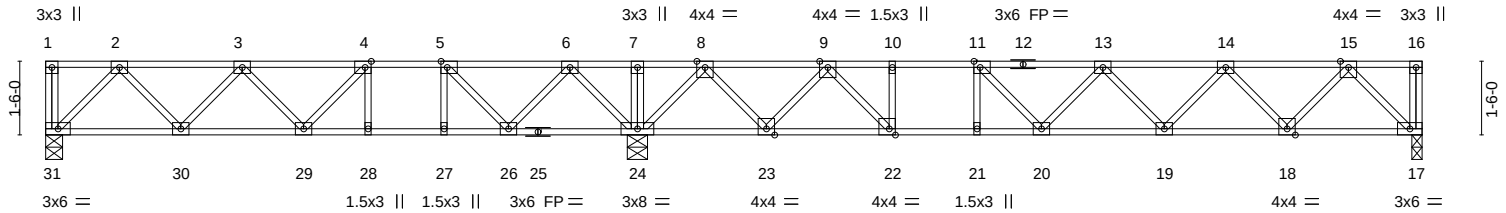
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F18	Floor	1	1	I50026096
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-iTsZVDr5SjHb7dhDyrqkHoW6LiQkT4w2cwe_tezpDrD

1-3-0 1-5-1 1-7-3

Scale = 1:46.9



12-0-9 28-0-4
12-0-9 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-26,23-24.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 24=0-4-15
Max Grav 31=716(LC 3), 17=967(LC 7), 24=1996(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1019/0, 3-4=-1391/0, 4-5=-1298/0, 5-6=-721/186, 6-7=0/1016, 7-8=0/1016, 8-9=-965/0, 9-10=-2332/0, 10-11=-2332/0, 11-13=-2575/0, 13-14=-2339/0, 14-15=-1493/0
BOT CHORD 30-31=0/648, 29-30=0/1373, 28-29=0/1298, 27-28=0/1298, 26-27=0/1298, 24-26=-440/249, 23-24=-97/306, 22-23=0/1688, 21-22=0/2332, 20-21=0/2332, 19-20=0/2628, 18-19=0/2046, 17-18=0/909
WEBS 2-31=-917/0, 2-30=0/551, 3-30=-526/0, 4-29=0/315, 4-28=-308/0, 6-24=-1094/0, 6-26=0/771, 5-26=-946/0, 5-27=0/337, 8-24=-1461/0, 8-23=0/1016, 9-23=-1117/0, 9-22=0/1030, 10-22=-420/0, 15-17=-1286/0, 15-18=0/868, 14-18=-823/0, 14-19=0/435, 13-19=-430/0, 11-20=0/490, 11-21=-398/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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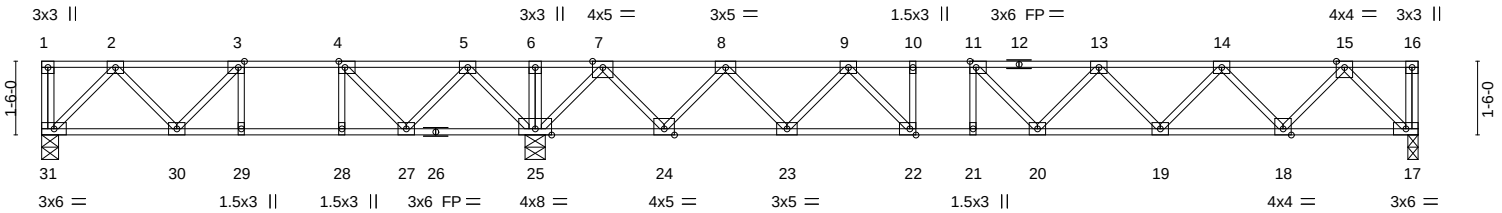
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F19	Floor	1	1	I50026097
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:49 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-AfQyjZsjD1PSlnFPVYLzq03I06jkCV7BraOYP5zpDrC

1-3-0 1-11-1 1-1-3

Scale = 1:46.9



10-0-9 28-0-4
10-0-9 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.29	20-21	>729	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 25=0-4-15
Max Grav 31=547(LC 3), 17=1069(LC 7), 25=2121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-688/13, 3-4=-801/220, 4-5=-358/634, 5-6=0/1617, 6-7=0/1617, 7-8=-852/0, 8-9=-2194/0, 9-10=-3103/0, 10-11=-3103/0, 11-13=-3141/0, 13-14=-2718/0, 14-15=-1687/0
BOT CHORD 30-31=0/506, 29-30=-220/801, 28-29=-220/801, 27-28=-220/801, 25-27=-941/0, 24-25=-416/7, 23-24=0/1672, 22-23=0/2725, 21-22=0/3103, 20-21=0/3103, 19-20=0/3085, 18-19=0/2337, 17-18=0/1010
WEBS 2-31=-715/0, 2-30=-112/271, 3-30=-164/300, 5-25=-1046/0, 5-27=0/733, 4-27=-901/0, 4-28=0/303, 3-29=-271/0, 7-25=-1699/0, 7-24=0/1305, 8-24=-1265/0, 8-23=0/820, 9-23=-842/0, 9-22=0/746, 15-17=-1428/0, 15-18=0/1007, 14-18=-966/0, 14-19=0/566, 13-19=-546/0, 11-20=-187/296, 11-21=-283/2, 10-22=-295/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

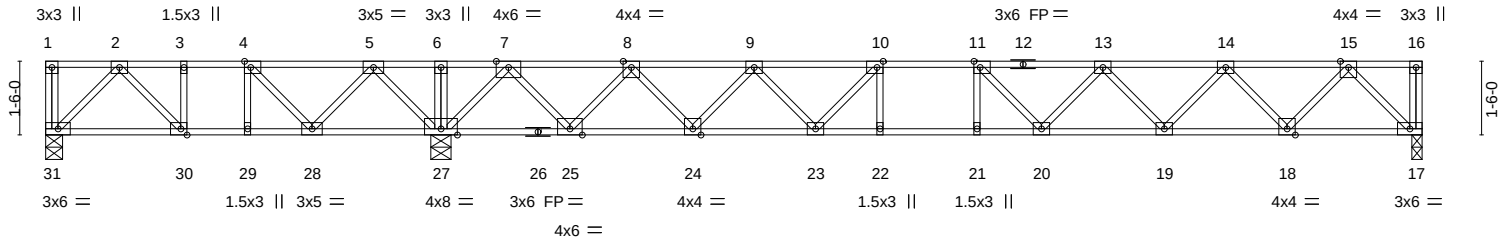
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F20	Floor	1	1	I50026098
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-62Xi8FtzlefA_4PodzORvR8dzwS7gN4UIuteTzzpDrA

1-3-0 1-2-1 1-10-3

Scale = 1:46.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-0-9 28-0-4
8-0-9 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	20-21	>664	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 27=0-4-15
Max Uplift 31=-145(LC 4)
Max Grav 31=336(LC 3), 17=1154(LC 7), 27=2335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-291/550, 3-4=-291/550, 4-5=0/1067, 5-6=0/2191, 6-7=0/2191, 7-8=-405/81, 8-9=-2089/0, 9-10=-3162/0, 10-11=-3657/0, 11-13=-3615/0, 13-14=-3034/0, 14-15=-1850/0
BOT CHORD 30-31=-182/258, 29-30=-550/291, 28-29=-550/291, 27-28=-1484/0, 25-27=-836/0, 24-25=0/1391, 23-24=0/2753, 22-23=0/3657, 21-22=0/3657, 20-21=0/3657, 19-20=0/3479, 18-19=0/2577, 17-18=0/1095
WEBS 2-31=-366/258, 2-30=-533/47, 5-27=-1112/0, 5-28=0/800, 4-28=-916/0, 4-29=0/256, 3-30=-41/252, 7-27=-1916/0, 7-25=0/1510, 8-25=-1489/0, 8-24=0/1061, 9-24=-1009/0, 9-23=0/667, 10-23=-895/0, 10-22=-31/348, 15-17=-1548/0, 15-18=0/1122, 14-18=-1081/0, 14-19=0/680, 13-19=-661/0, 13-20=0/315, 11-20=-329/242, 11-21=-317/62

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 31.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F21	Floor	3	1	I50026099
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:52 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-aE54LbucWyn1cE__BgvgSehvJJl_Pv3eXYcC0QzpDr9

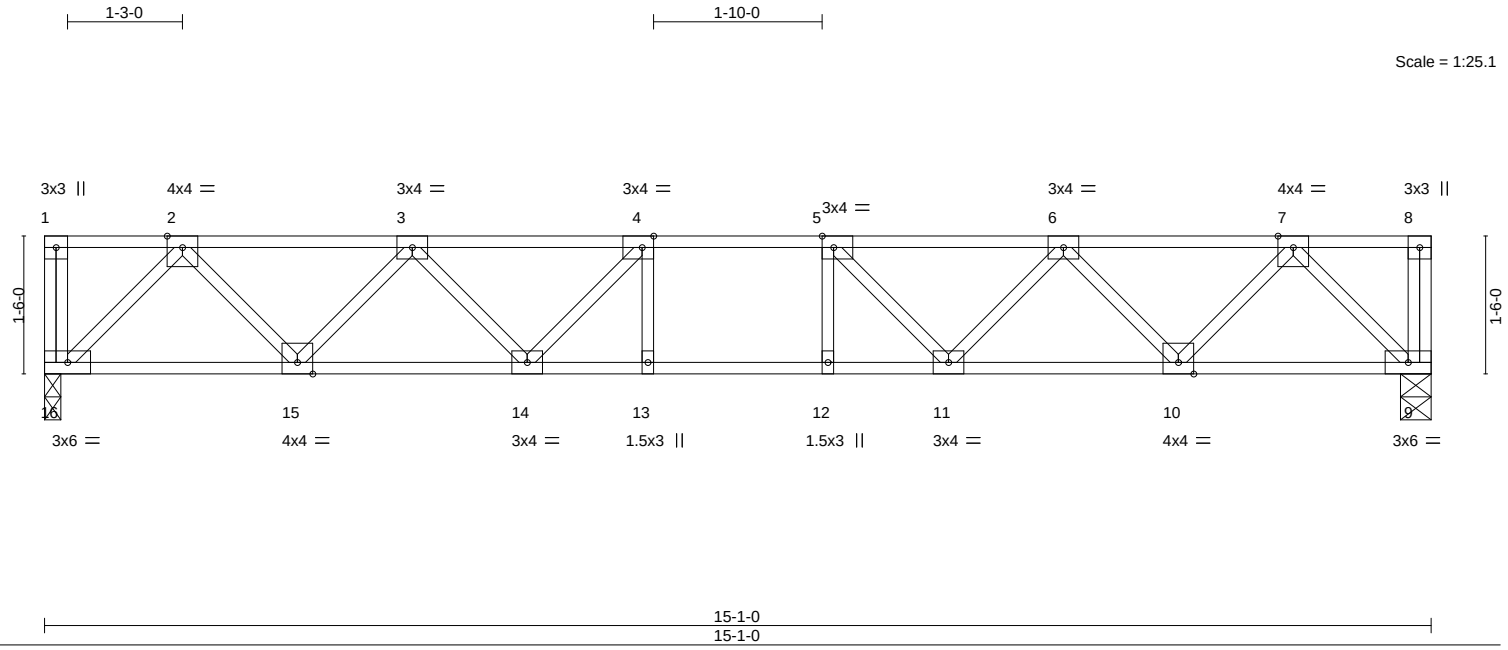

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.18	13-14	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-4-0
Max Grav 16=964(LC 1), 9=964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1490/0, 3-4=-2320/0, 4-5=-2585/0, 5-6=-2320/0, 6-7=-1490/0
BOT CHORD 15-16=0/903, 14-15=0/2052, 13-14=0/2585, 12-13=0/2585, 11-12=0/2585, 10-11=0/2052, 9-10=0/903
WEBS 2-16=-1276/0, 2-15=0/874, 3-15=-834/0, 3-14=0/450, 4-14=-536/0, 7-9=-1276/0, 7-10=0/874, 6-10=-834/0, 6-11=0/450, 5-11=-536/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

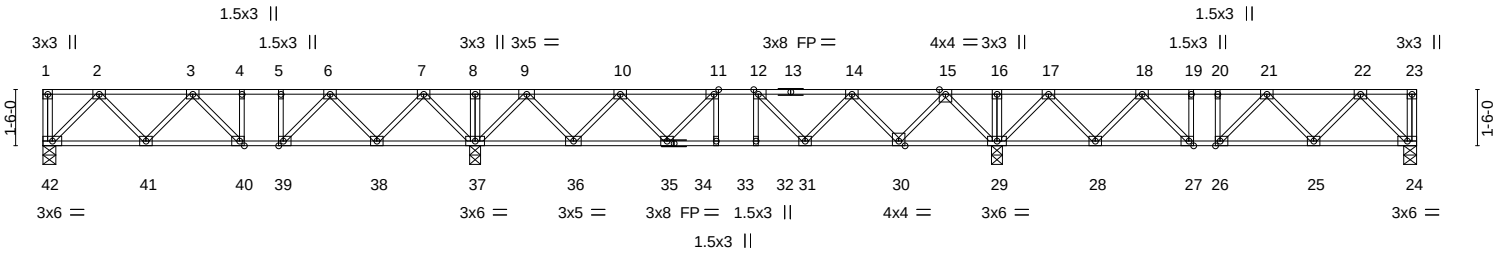
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F22	Floor	6	1	I50026100
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WdDrmGws2Z1lrY8NI5x8X3mCL7YEspmw?s5I4IzpDr7

1-3-0 0-11-0 0-11-4 0-7-0

Scale = 1:61.5



11-6-8 25-5-12 36-8-4
11-6-8 13-11-4 11-2-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	40-41	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=643(LC 5), 24=618(LC 5), 37=1848(LC 3), 29=1849(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-880/0, 3-4=-1121/0, 4-5=-1121/0, 5-6=-1121/0, 6-7=-426/407, 7-8=0/1374, 8-9=0/1374, 9-10=-312/286, 10-11=-1026/8, 11-12=-1221/0, 12-14=-1010/10, 14-15=-273/291, 15-16=0/1429, 16-17=0/1429, 17-18=-386/461, 18-19=-1032/1, 19-20=-1032/1, 20-21=-1032/1, 21-22=-829/0
BOT CHORD 41-42=0/588, 40-41=0/1134, 39-40=0/1121, 38-39=-155/873, 37-38=-667/0, 36-37=-527/0, 35-36=-97/818, 33-35=0/1221, 32-33=0/1221, 31-32=0/1221, 30-31=-101/790, 29-30=-563/0, 28-29=-725/0, 27-28=-208/816, 26-27=-1/1032, 25-26=0/1063, 24-25=0/562
WEBS 2-42=-831/0, 2-41=0/434, 3-41=-378/0, 3-40=-265/12, 7-37=-1183/0, 7-38=0/769, 6-38=-766/0, 6-39=0/569, 5-39=-282/0, 9-37=-1216/0, 9-36=0/832, 10-36=-802/0, 10-35=0/364, 11-35=-355/0, 15-29=-1232/0, 15-30=0/847, 14-30=-816/0, 14-31=0/380, 12-31=-376/0, 17-29=-1169/0, 17-28=0/760, 18-28=-749/0, 18-27=0/527, 19-27=-253/0, 22-24=-795/0, 22-25=0/398, 21-25=-347/19, 21-26=-292/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

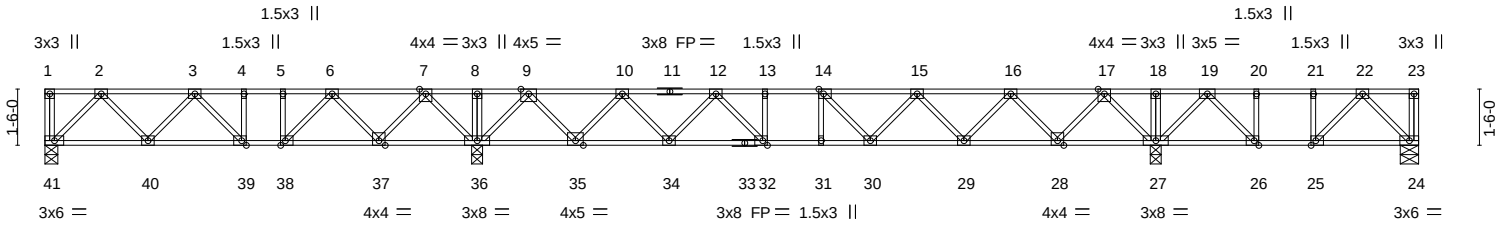
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F23	Floor	4	1	I50026101
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:56 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-T?LbByx6aBHS5sImQWzccUrUqx9ZKgHDSAaP9BzpDr5

1-3-0 0-11-0 1-4-8 1-4-12

Scale = 1:61.5



11-6-8 29-8-0 36-8-4
11-6-8 18-1-8 7-0-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.15	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	30-31	>944	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 24=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 41=612(LC 5), 24=347(LC 5), 36=2233(LC 16), 27=1860(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-822/0, 3-4=-992/278, 4-5=-992/278, 5-6=-992/278, 6-7=-226/935, 7-8=0/2022, 8-9=0/2022, 9-10=-229/259, 10-12=-1502/0, 12-13=-2326/0, 13-14=-2326/0, 14-15=-2277/0, 15-16=-1719/0, 16-17=-596/0, 17-18=0/1360, 18-19=0/1360, 19-20=-298/423, 20-21=-298/423, 21-22=-298/423
BOT CHORD 40-41=0/557, 39-40=-51/1046, 38-39=-278/992, 37-38=-604/704, 36-37=-1265/0, 35-36=-858/0, 34-35=0/1014, 32-34=0/1994, 31-32=0/2326, 30-31=0/2326, 29-30=0/2151, 28-29=0/1286, 27-28=-309/0, 26-27=-881/0, 25-26=-423/298, 24-25=-124/265
WEBS 2-41=-788/0, 2-40=-39/394, 3-40=-333/113, 7-36=-1290/0, 7-37=0/869, 6-37=-879/0, 6-38=0/731, 3-39=-428/0, 5-38=-358/0, 9-36=-1646/0, 9-35=0/1247, 10-35=-1208/0, 10-34=0/765, 12-34=-778/0, 12-32=0/676, 17-27=-1514/0, 17-28=0/1124, 16-28=-1074/0, 16-29=0/668, 15-29=-648/0, 13-32=-289/0, 19-27=-877/0, 19-26=0/841, 20-26=-447/0, 22-24=-375/175, 22-25=-432/48

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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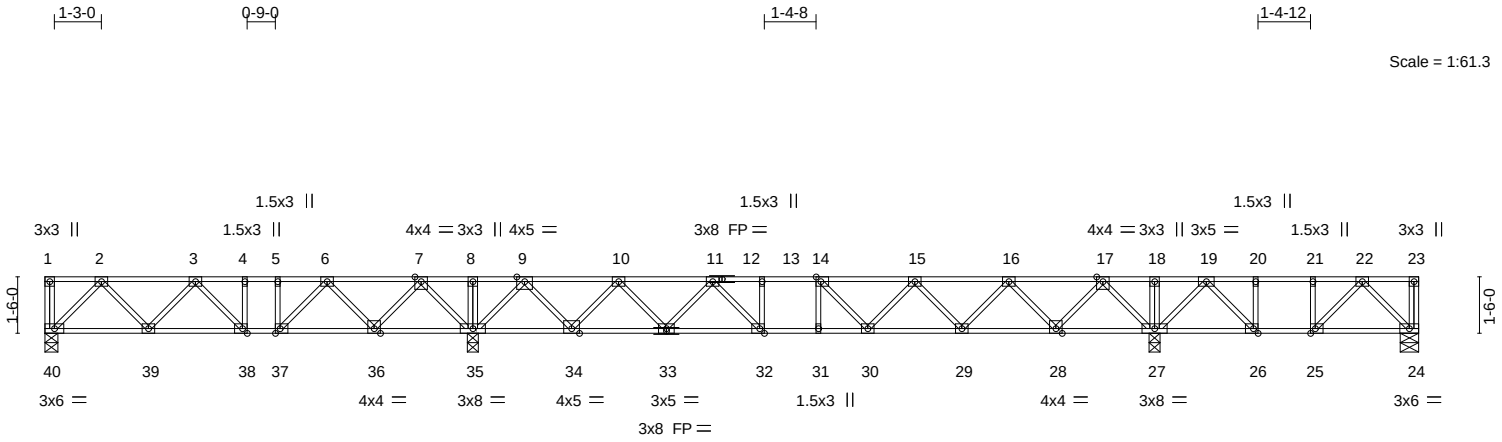
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F24	Floor	1	1	I50026102
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:56:58 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-POSLcezM6oXAK9R8Xx04hvxqRkq?oakWwU3WD3zpDr3



	11-4-8	29-6-0	36-6-4
	11-4-8	18-1-8	7-0-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	30-31	>953	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 40=0-4-2, 24=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 40=598(LC 5), 24=348(LC 5), 35=2233(LC 16), 27=1854(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-795/0, 3-4=-944/312, 4-5=-944/312, 5-6=-944/312, 6-7=-202/964, 7-8=0/2057, 8-9=0/2057, 9-10=-199/268, 10-11=-1479/0, 11-13=-2312/0, 13-14=-2312/0, 14-15=-2268/0, 15-16=-1715/0, 16-17=-600/0, 17-18=0/1350, 18-19=0/1350, 19-20=-300/418, 20-21=-300/418, 21-22=-300/418
BOT CHORD 39-40=0/543, 38-39=-83/1007, 37-38=-312/944, 36-37=-631/672, 35-36=-1298/0, 34-35=-890/0, 33-34=0/987, 32-33=0/1975, 31-32=0/2312, 30-31=0/2312, 29-30=0/2145, 28-29=0/1286, 27-28=-303/0, 26-27=-873/0, 25-26=-418/300, 24-25=-122/266
WEBS 2-40=-768/0, 2-39=-57/374, 3-39=-316/126, 3-38=-439/0, 7-35=-1286/0, 7-36=0/868, 6-36=-872/0, 6-37=0/707, 5-37=-342/0, 9-35=-1651/0, 9-34=0/1252, 10-34=-1212/0, 10-33=0/769, 11-33=-784/0, 11-32=0/680, 17-27=-1510/0, 17-28=0/1119, 16-28=-1070/0, 16-29=0/663, 15-29=-644/0, 13-32=-288/0, 19-27=-874/0, 19-26=0/836, 20-26=-445/0, 22-24=-376/173, 22-25=-428/49

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

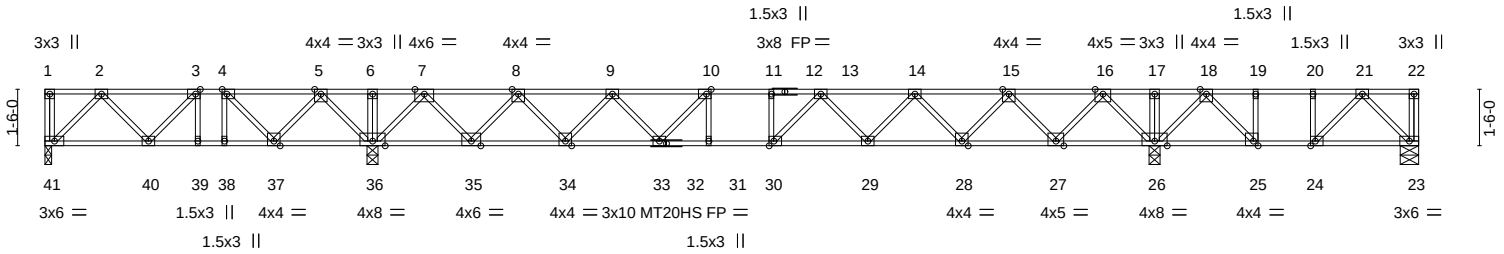
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F25	Floor	4	1	I50026103
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:00 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Lna60K_ddPnuZTbXfM2YnK09RYUTGTapNoYdIyzpDr1

1-3-0 0-7-0 1-6-8 1-4-12

Scale = 1:61.3



8-8-8 29-6-0 36-6-4
8-8-8 20-9-8 7-0-4

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.21	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.34	29-30	>741	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 12-22: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 23-32: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-2, 23=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-191(LC 6), 23=-172(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=375(LC 5), 23=308(LC 5), 36=2405(LC 16), 26=2104(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/497, 3-4=-329/917, 4-5=0/1475, 5-6=0/2639, 6-7=0/2639, 7-8=0/318, 8-9=-1443/0, 9-10=-2481/0, 10-11=-2921/0, 11-13=-2921/0, 13-14=-2705/0, 14-15=-1870/0, 15-16=-458/0, 16-17=0/1815, 17-18=0/1815, 18-19=-200/646, 19-20=-200/646, 20-21=-200/646
BOT CHORD 40-41=-196/330, 39-40=-917/329, 38-39=-917/329, 37-38=-917/329, 36-37=-1946/0, 35-36=-1307/0, 34-35=0/764, 33-34=0/2091, 31-33=0/2921, 30-31=0/2921, 29-30=0/2949, 28-29=0/2423, 27-28=0/1305, 26-27=-601/0, 25-26=-1243/0, 24-25=-646/200
WEBS 2-41=-467/277, 2-40=-448/43, 3-40=0/607, 3-39=-419/0, 5-36=-1254/0, 5-37=0/906, 7-36=-1884/0, 7-35=0/1475, 8-35=-1454/0, 8-34=0/1028, 9-34=-983/0, 9-33=0/614, 16-26=-1728/0, 16-27=0/1340, 15-27=-1286/0, 15-28=0/865, 14-28=-847/0, 14-29=0/441, 13-29=-370/0, 10-33=-754/0, 13-30=-276/281, 18-26=-996/0, 18-25=0/1041, 19-25=-557/0, 21-23=-320/300, 21-24=-629/0, 20-24=-15/316, 4-37=-1027/0, 4-38=0/433

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 41 and 172 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

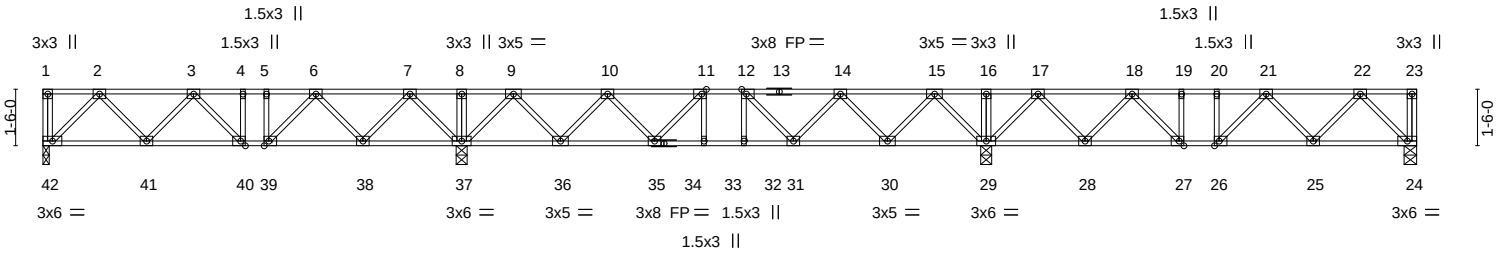
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F26	Floor	7	1	I50026104
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:02 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-H9isR?0t911cpnlvmn40sl5aJLHgkQm6q61kMrzpDr?

1-3-0 0-6-0 0-11-4 0-9-12

Scale = 1:61.2



11-1-8 25-0-12 36-6-0
11-1-8 13-11-4 11-5-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=635(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/13, 4-5=-1012/13, 5-6=-1012/13, 6-7=-378/469, 7-8=0/1435, 8-9=0/1435, 9-10=-263/291, 10-11=-998/11, 11-12=-1208/0, 12-14=-1012/10, 14-15=-296/289, 15-16=0/1390, 16-17=0/1390, 17-18=-412/422, 18-19=-1092/0, 19-20=-1092/0, 20-21=-1092/0, 21-22=-864/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-13/1012, 38-39=-217/803, 37-38=-734/0, 36-37=-569/0, 35-36=-101/779, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-100/803, 29-30=-540/0, 28-29=-683/0, 27-28=-171/854, 26-27=0/1092, 25-26=0/1111, 24-25=0/580
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1165/0, 7-38=0/757, 6-38=-743/0, 6-39=0/514, 3-40=-296/0, 9-37=-1231/0, 9-36=0/845, 10-36=-814/0, 10-35=0/378, 11-35=-374/0, 15-29=-1217/0, 15-30=0/833, 14-30=-803/0, 14-31=0/365, 12-31=-356/0, 17-29=-1178/0, 17-28=0/766, 18-28=-760/0, 18-27=0/556, 22-24=-820/0, 22-25=0/422, 21-25=-368/2, 21-26=-275/3, 19-27=-273/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

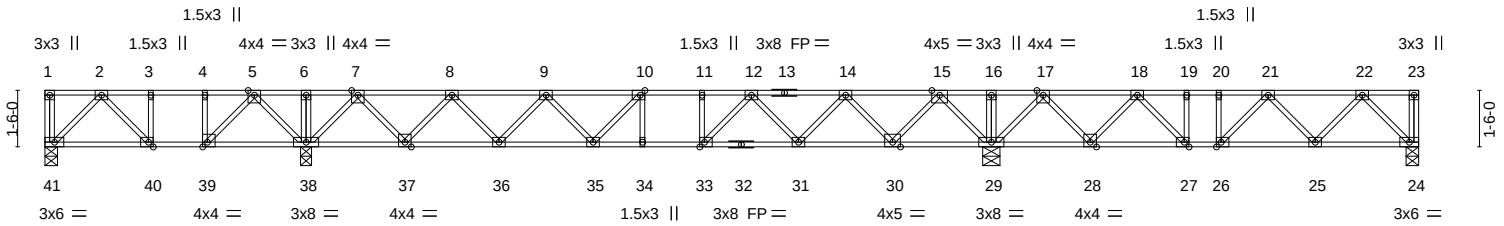
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F27	Floor	5	1	I50026105
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:04 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-EYqdsh17heIK24vIuC7UxABre9tGCHFPIQWqQjzpDqz

1-3-0 1-3-12 1-5-8 0-8-12

Scale = 1:61.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-4 25-1-12 36-6-0
6-11-4 18-2-8 11-4-4

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.15	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	34-35	>941	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-5-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-104(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=334(LC 5), 24=597(LC 5), 38=1882(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/466, 3-4=-270/466, 4-5=-270/466, 5-6=0/1433, 6-7=0/1433, 7-8=-529/0, 8-9=-1671/0, 9-10=-2245/0, 10-11=-2301/0, 11-12=-2301/0, 12-14=-1469/0, 14-15=-191/266, 15-16=0/2057, 16-17=0/2057, 17-18=-203/969, 18-19=-941/317, 19-20=-941/317, 20-21=-941/317, 21-22=-792/2
BOT CHORD 40-41=-145/252, 39-40=-466/270, 38-39=-943/0, 37-38=-375/0, 36-37=0/1227, 35-36=0/2111, 34-35=0/2301, 33-34=0/2301, 31-33=0/1963, 30-31=0/978, 29-30=-891/0, 28-29=-1304/0, 27-28=-635/671, 26-27=-317/941, 25-26=-88/1004, 24-25=0/542
WEBS 2-41=-357/205, 2-40=-465/26, 5-38=-896/0, 5-39=0/860, 4-39=-454/0, 7-38=-1526/0, 7-37=0/1135, 8-37=-1085/0, 8-36=0/679, 9-36=-659/0, 9-35=0/255, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-781/0, 12-33=0/679, 11-33=-293/0, 17-29=-1285/0, 17-28=0/867, 18-28=-871/0, 18-27=0/704, 19-27=-340/0, 22-24=-766/0, 22-25=-60/372, 21-25=-315/128, 21-26=-440/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

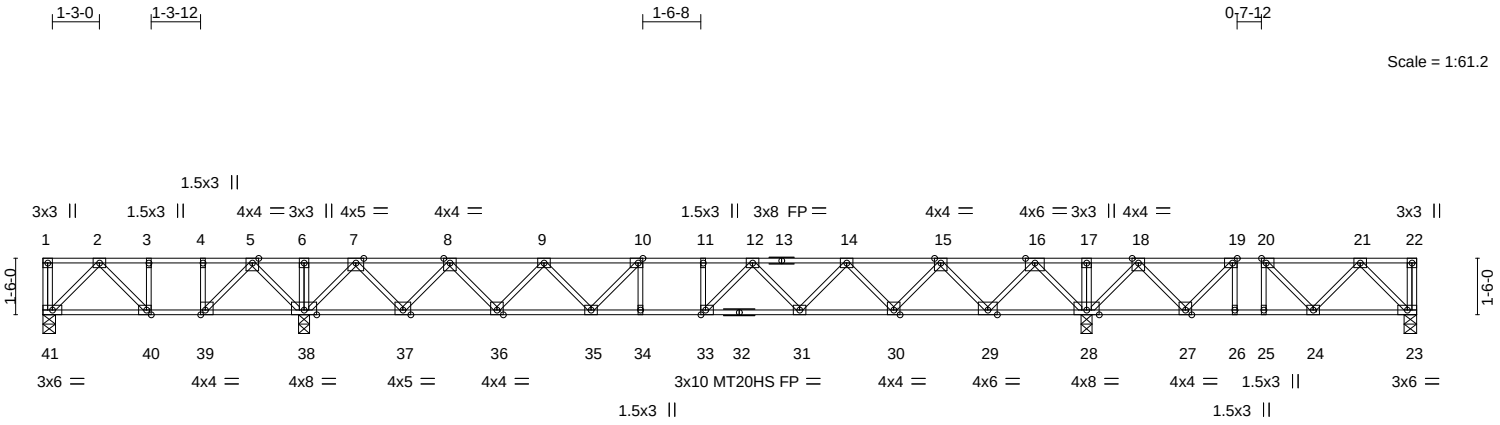
February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL) I50026106
PRYOR-F1C	F28	Floor	3	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:07 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-e7VlUj40_ZgvvYdtZKgBZppM8MsiPcCr_OlV12zpDqw



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

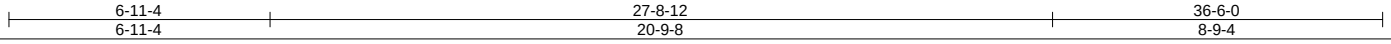


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.18	33-34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>858	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 28=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-168(LC 6), 23=-208(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=306(LC 5), 23=371(LC 5), 38=2080(LC 3), 28=2440(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-201/625, 3-4=-201/625, 4-5=-201/625, 5-6=0/1757, 6-7=0/1757, 7-8=-480/0, 8-9=-1876/0, 9-10=-2674/0, 10-11=-2932/0, 11-12=-2932/0, 12-14=-2413/0, 14-15=-1354/0, 15-16=0/436, 16-17=0/2774, 17-18=0/2774, 18-19=0/1571, 19-20=-311/980, 20-21=-351/530
BOT CHORD 39-40=-625/201, 38-39=-1203/0, 37-38=-556/0, 36-37=0/1317, 35-36=0/2415, 34-35=0/2932, 33-34=0/2932, 31-33=0/2782, 30-31=0/2022, 29-30=0/661, 28-29=-1433/0, 27-28=-2063/0, 26-27=-980/311, 25-26=-980/311, 24-25=-980/311, 23-24=-211/328
WEBS 2-41=-320/287, 2-40=-611/0, 5-38=-974/0, 5-39=0/1008, 4-39=-555/0, 3-40=-8/322, 7-38=-1710/0, 7-37=0/1320, 8-37=-1271/0, 8-36=0/854, 9-36=-825/0, 9-35=0/461, 10-35=-518/0, 16-28=-1901/0, 16-29=0/1490, 15-29=-1466/0, 15-30=0/1050, 14-30=-1013/0, 14-31=0/598, 12-31=-571/0, 12-33=-53/501, 18-28=-1282/0, 18-27=0/940, 19-27=-1078/0, 21-23=-463/298, 21-24=-476/35, 20-24=0/651, 20-25=-437/0, 19-26=0/452

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 41 and 208 lb uplift at joint 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

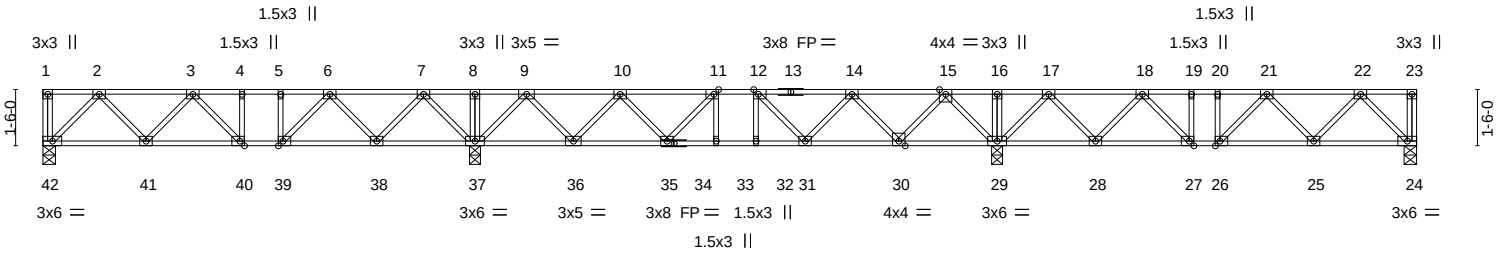
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F29	Floor	2	1	I50026107
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:09 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-aVdWvP5GWAwc8rnFglifeEunYAgotbT8RiEb5xzpDqu

1-3-0 0-10-14 0-11-4 0-6-14

Scale = 1:61.5



11-6-6 25-5-10 36-8-0
11-6-6 13-11-4 11-2-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	40-41	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=643(LC 5), 24=617(LC 5), 37=1847(LC 3), 29=1849(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-878/0, 3-4=-1118/0, 4-5=-1118/0, 5-6=-1118/0, 6-7=-425/408, 7-8=0/1376, 8-9=0/1376, 9-10=-310/286, 10-11=-1025/8, 11-12=-1220/0, 12-14=-1008/10, 14-15=-272/291, 15-16=0/1430, 16-17=0/1430, 17-18=-385/462, 18-19=-1030/2, 19-20=-1030/2, 20-21=-1030/2, 21-22=-828/0
BOT CHORD 41-42=0/587, 40-41=0/1132, 39-40=0/1118, 38-39=-157/871, 37-38=-668/0, 36-37=-528/0, 35-36=-97/817, 33-35=0/1220, 32-33=0/1220, 31-32=0/1220, 30-31=-101/789, 29-30=-564/0, 28-29=-727/0, 27-28=-209/814, 26-27=-2/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-830/0, 2-41=0/433, 3-41=-377/0, 3-40=-266/11, 7-37=-1182/0, 7-38=0/769, 6-38=-765/0, 6-39=0/567, 5-39=-281/0, 9-37=-1216/0, 9-36=0/832, 10-36=-802/0, 10-35=0/364, 11-35=-355/0, 15-29=-1232/0, 15-30=0/847, 14-30=-816/0, 14-31=0/380, 12-31=-376/0, 17-29=-1169/0, 17-28=0/760, 18-28=-748/0, 18-27=0/525, 19-27=-252/0, 22-24=-794/0, 22-25=0/397, 21-25=-346/19, 21-26=-293/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 3,2022

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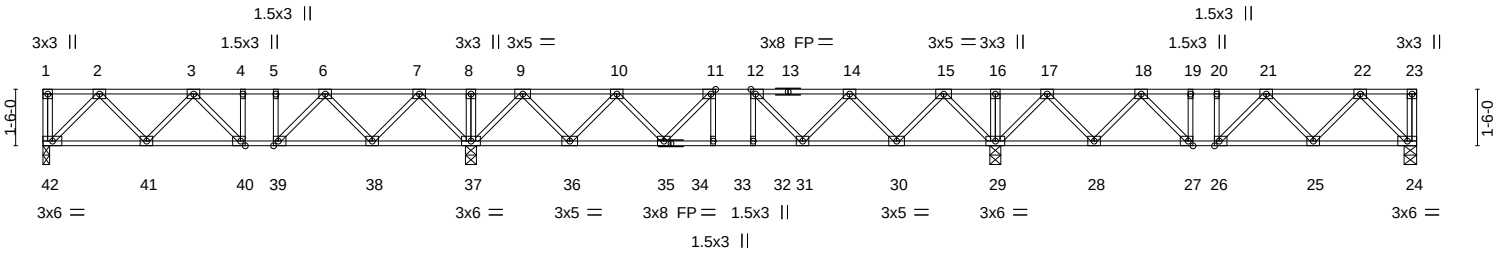
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F30	Floor	1	1	I50026108
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-?4JeYQ88p5IB0JWqMtGMGsWHpNjK4yFa8fSFiFzpDqr

1-3-0 0-9-0 0-11-4 0-6-14

Scale = 1:61.2



11-4-8 25-3-12 36-6-2
11-4-8 13-11-4 11-2-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-2, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=617(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-854/0, 3-4=-1075/0, 4-5=-1075/0, 5-6=-1075/0, 6-7=-405/433, 7-8=0/1401, 8-9=0/1401, 9-10=-288/290, 10-11=-1008/11, 11-12=-1208/0, 12-14=-1000/12, 14-15=-270/291, 15-16=0/1426, 16-17=0/1426, 17-18=-385/459, 18-19=-1030/0, 19-20=-1030/0, 20-21=-1030/0, 21-22=-828/0
BOT CHORD 41-42=0/575, 40-41=0/1098, 39-40=0/1075, 38-39=-181/844, 37-38=-695/0, 36-37=-547/0, 35-36=-101/798, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-102/784, 29-30=-564/0, 28-29=-723/0, 27-28=-207/815, 26-27=-0/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-813/0, 2-41=0/416, 3-41=-362/7, 3-40=-280/0, 7-37=-1176/0, 7-38=0/764, 6-38=-757/0, 6-39=0/548, 5-39=-268/0, 9-37=-1220/0, 9-36=0/836, 10-36=-805/0, 10-35=0/368, 11-35=-360/0, 15-29=-1228/0, 15-30=0/843, 14-30=-812/0, 14-31=0/376, 12-31=-370/0, 17-29=-1168/0, 17-28=0/759, 18-28=-747/0, 18-27=0/524, 19-27=-252/0, 22-24=-794/0, 22-25=0/397, 21-25=-346/19, 21-26=-292/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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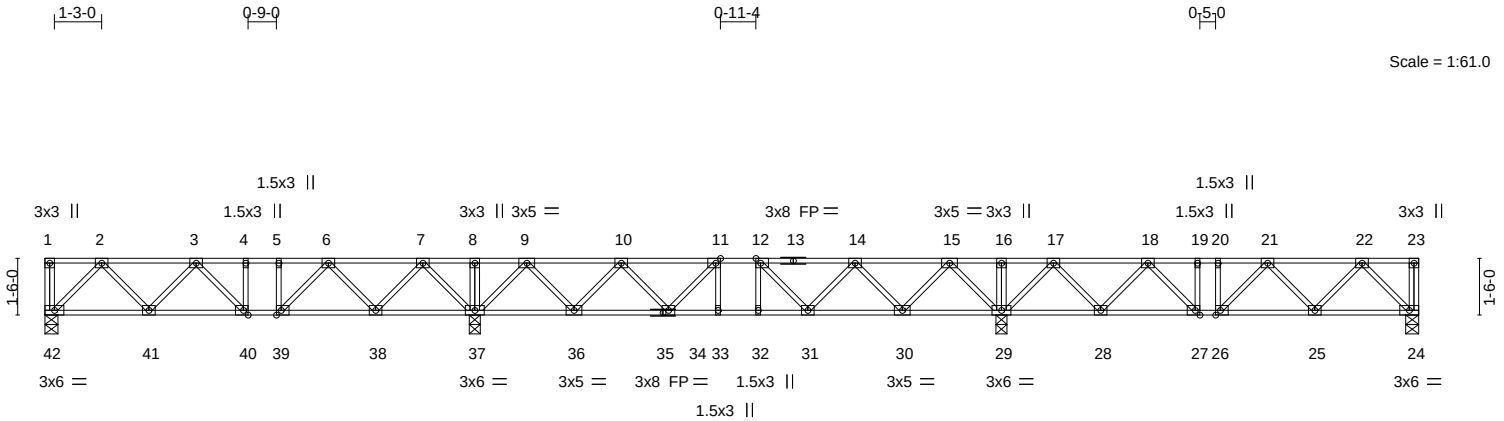
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F31	Floor	9	1	I50026109
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-xTQOy69PKjYvFdgDTIlqLHbdIBOoYsktbzxMm8zpDqp



	11-4-8	25-3-12	36-4-4
	11-4-8	13-11-4	11-0-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=606(LC 5), 37=1843(LC 3), 29=1841(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-854/0, 3-4=-1075/0, 4-5=-1075/0, 5-6=-1075/0, 6-7=-405/431, 7-8=0/1399, 8-9=0/1399, 9-10=-287/290, 10-11=-1003/11, 11-12=-1199/0, 12-14=-989/11, 14-15=-255/290, 15-16=0/1440, 16-17=0/1440, 17-18=-371/476, 18-19=-992/25, 19-20=-992/25, 20-21=-992/25, 21-22=-806/0
BOT CHORD 41-42=0/575, 40-41=0/1098, 39-40=0/1075, 38-39=-179/843, 37-38=-693/0, 36-37=-547/0, 34-36=-101/794, 33-34=0/1199, 32-33=0/1199, 31-32=0/1199, 30-31=-100/771, 29-30=-573/0, 28-29=-742/0, 27-28=-225/792, 26-27=-25/992, 25-26=0/1029, 24-25=0/550
WEBS 2-42=-813/0, 2-41=0/416, 3-41=-362/6, 3-40=-280/0, 7-37=-1175/0, 7-38=0/764, 6-38=-757/0, 6-39=0/548, 5-39=-268/0, 9-37=-1217/0, 9-36=0/833, 10-36=-803/0, 10-34=0/365, 11-34=-356/0, 15-29=-1230/0, 15-30=0/845, 14-30=-814/0, 14-31=0/378, 12-31=-373/0, 17-29=-1160/0, 17-28=0/753, 18-28=-738/0, 18-27=0/501, 22-24=-778/0, 22-25=0/381, 21-25=-332/28, 21-26=-299/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

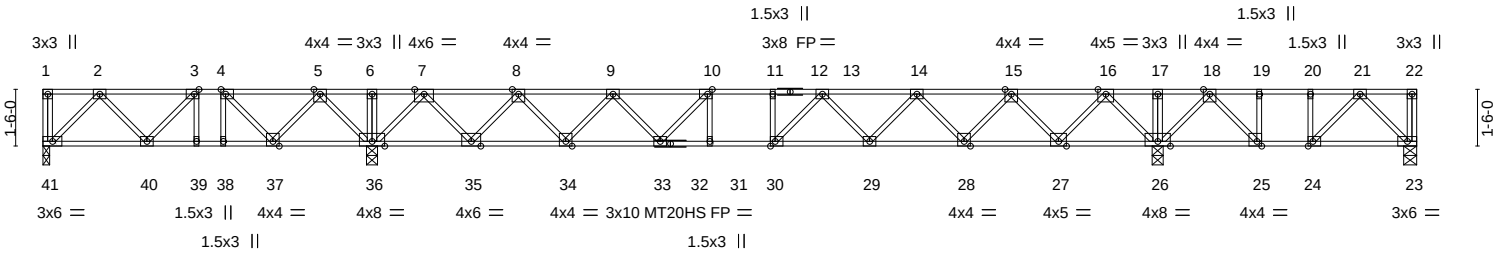
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F32	Floor	3	1	I50026110
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:16 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-tsY9NoBfsKodUwqcbjKIQigub?zj0ifA2HQTr1zpDqn

1-3-0 0-7-0 1-6-8 1-2-12

Scale = 1:61.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

	8-8-8	29-6-0	36-4-4
	8-8-8	20-9-8	6-10-4

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.20	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	29-30	>771	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 12-22: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 23-32: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-2, 23=0-4-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-186(LC 6), 23=-216(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=377(LC 5), 23=282(LC 5), 36=2388(LC 16), 26=2145(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-363/489, 3-4=-334/904, 4-5=0/1456, 5-6=0/2611, 6-7=0/2611, 7-8=0/314, 8-9=-1425/0, 9-10=-2442/0, 10-11=-2863/0, 11-13=-2863/0, 13-14=-2616/0, 14-15=-1756/0, 15-16=-321/0, 16-17=0/1955, 17-18=0/1955, 18-19=-148/731, 19-20=-148/731, 20-21=-148/731
BOT CHORD	40-41=-192/332, 39-40=-904/334, 38-39=-904/334, 37-38=-904/334, 36-37=-1923/0, 35-36=-1291/0, 34-35=0/757, 33-34=0/2064, 31-33=0/2863, 30-31=0/2863, 29-30=0/2873, 28-29=0/2320, 27-28=0/1179, 26-27=-730/0, 25-26=-1361/0, 24-25=-731/148, 23-24=-255/201
WEBS	2-41=-469/272, 2-40=-442/46, 5-36=-1249/0, 5-37=0/900, 4-37=-1019/0, 4-38=0/430, 3-40=0/600, 3-39=-416/0, 7-36=-1867/0, 7-35=0/1458, 8-35=-1436/0, 8-34=0/1012, 9-34=-967/0, 9-33=0/598, 10-33=-730/0, 16-26=-1744/0, 16-27=0/1355, 15-27=-1302/0, 15-28=0/881, 14-28=-862/0, 14-29=0/455, 13-29=-388/0, 13-30=-252/295, 18-26=-1037/0, 18-25=0/1075, 19-25=-571/0, 21-23=-285/361, 21-24=-690/0, 20-24=0/347

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 41 and 216 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F33	Floor	1	1	I50026111
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:18 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-pEgvoUCvOx2LkEz_i8NmV7mJJolLUgkSWbvawvzpDql

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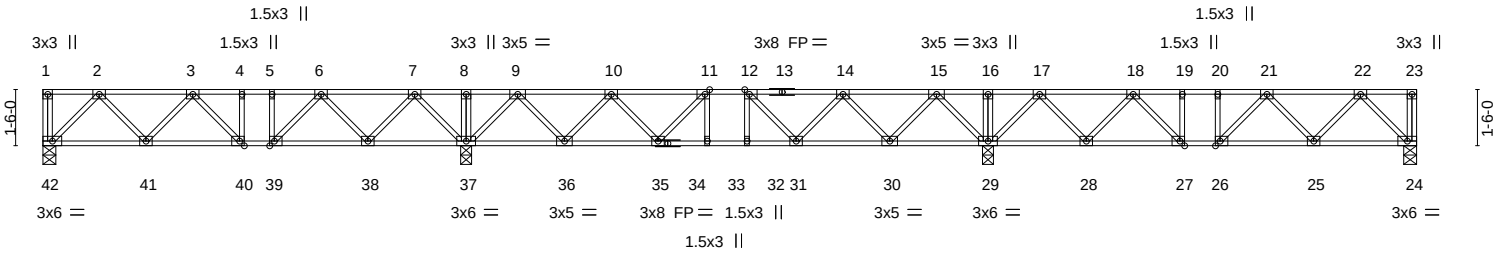

11-3-10 25-2-14 36-8-4
11-3-10 13-11-4 11-5-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=625(LC 5), 24=636(LC 5), 37=1849(LC 3), 29=1848(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-843/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-1056/0, 6-7=-396/447, 7-8=0/1416, 8-9=0/1416, 9-10=-282/291, 10-11=-1013/11, 11-12=-1220/0, 12-14=-1020/10, 14-15=-299/289, 15-16=0/1392, 16-17=0/1392, 17-18=-414/423, 18-19=-1095/0, 19-20=-1095/0, 20-21=-1095/0, 21-22=-865/0
BOT CHORD 41-42=0/569, 40-41=0/1082, 39-40=0/1056, 38-39=-194/831, 37-38=-710/0, 36-37=-555/0, 35-36=-101/796, 33-35=0/1220, 32-33=0/1220, 31-32=0/1220, 30-31=-100/809, 29-30=-539/0, 28-29=-684/0, 27-28=-171/856, 26-27=0/1095, 25-26=0/1114, 24-25=0/581
WEBS 2-42=-805/0, 2-41=0/408, 3-41=-355/12, 3-40=-286/0, 7-37=-1173/0, 7-38=0/763, 6-38=-754/0, 6-39=0/539, 5-39=-262/0, 9-37=-1228/0, 9-36=0/843, 10-36=-812/0, 10-35=0/376, 11-35=-370/0, 15-29=-1221/0, 15-30=0/836, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1179/0, 17-28=0/767, 18-28=-761/0, 18-27=0/558, 19-27=-275/0, 22-24=-821/0, 22-25=0/424, 21-25=-369/2, 21-26=-274/4

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F34	Floor	2	1	I50026112
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:20 2022 Page 1
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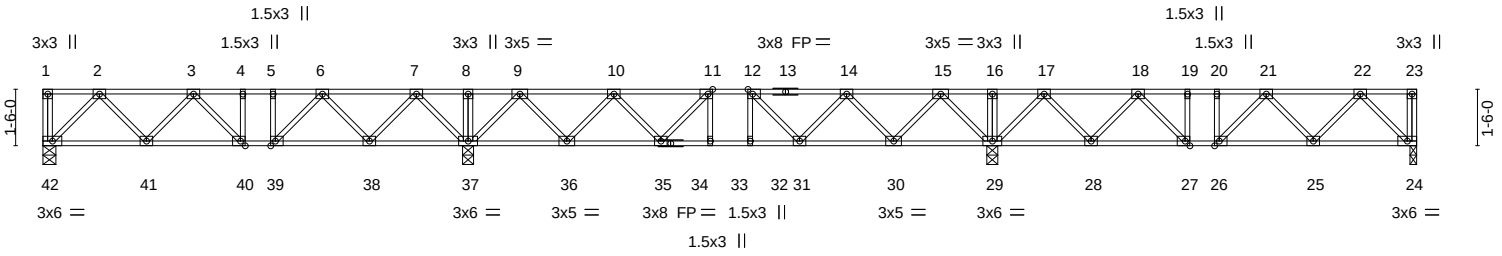
1-3-0 0-8-2 0-11-4 0-7-14

Scale = 1:61.3



11-3-10 25-2-14 36-6-4
11-3-10 13-11-4 11-3-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-4-2, 24=0-2-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=625(LC 5), 24=623(LC 5), 37=1846(LC 3), 29=1846(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-844/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-1056/0, 6-7=-396/444, 7-8=0/1412, 8-9=0/1412, 9-10=-280/291, 10-11=-1005/12, 11-12=-1208/0, 12-14=-1004/12, 14-15=-278/291, 15-16=0/1415, 16-17=0/1415, 17-18=-394/447, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-840/0
BOT CHORD 41-42=0/569, 40-41=0/1083, 39-40=0/1056, 38-39=-192/831, 37-38=-707/0, 36-37=-555/0, 35-36=-102/792, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-102/790, 29-30=-557/0, 28-29=-711/0, 27-28=-195/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-805/0, 2-41=0/408, 3-41=-355/12, 3-40=-285/0, 7-37=-1173/0, 7-38=0/762, 6-38=-753/0, 6-39=0/539, 5-39=-262/0, 9-37=-1224/0, 9-36=0/839, 10-36=-808/0, 10-35=0/371, 11-35=-365/0, 15-29=-1225/0, 15-30=0/840, 14-30=-809/0, 14-31=0/372, 12-31=-366/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/13, 21-26=-287/0, 17-29=-1172/0, 17-28=0/762, 18-28=-752/0, 18-27=0/536, 19-27=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F35	Floor	3	1	I50026113
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:22 2022 Page 1
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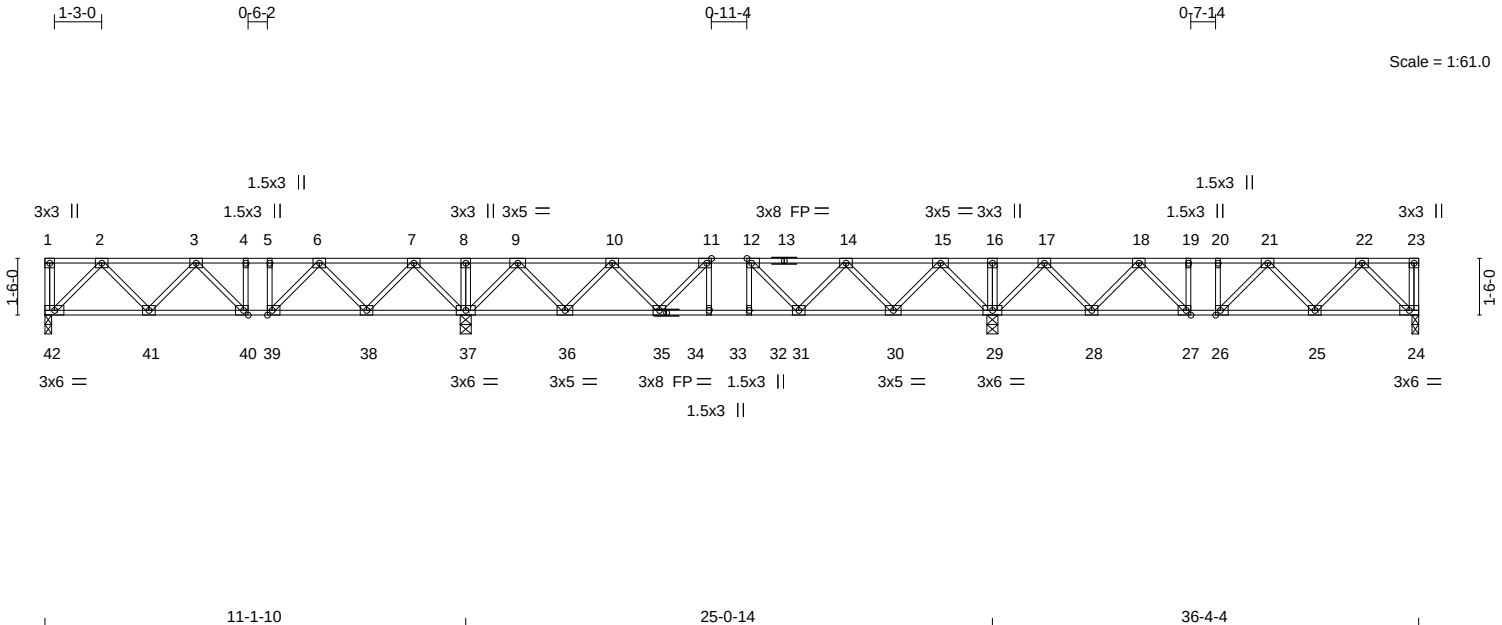

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=623(LC 5), 37=1842(LC 3), 29=1843(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-819/0, 3-4=-1015/9, 4-5=-1015/9, 5-6=-1015/9, 6-7=-380/465, 7-8=0/1431, 8-9=0/1431, 9-10=-262/291, 10-11=-992/12, 11-12=-1198/0, 12-14=-997/12, 14-15=-276/291, 15-16=0/1413, 16-17=0/1413, 17-18=-394/445, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-840/0
BOT CHORD 41-42=0/557, 40-41=0/1048, 39-40=-9/1015, 38-39=-213/805, 37-38=-730/0, 36-37=-568/0, 35-36=-102/776, 33-35=0/1198, 32-33=0/1198, 31-32=0/1198, 30-31=-102/786, 29-30=-557/0, 28-29=-708/0, 27-28=-193/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-787/0, 2-41=0/390, 3-41=-340/22, 3-40=-295/0, 7-37=-1165/0, 7-38=0/756, 6-38=-743/0, 6-39=0/515, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1171/0, 17-28=0/761, 18-28=-752/0, 18-27=0/535, 19-27=-259/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/13, 21-26=-286/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F37	Floor	5	1	I50026114
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:24 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-eO1A3XHg_npUS9R83PTAlO0HwDjEuKCLuXMu7ZzpDqf

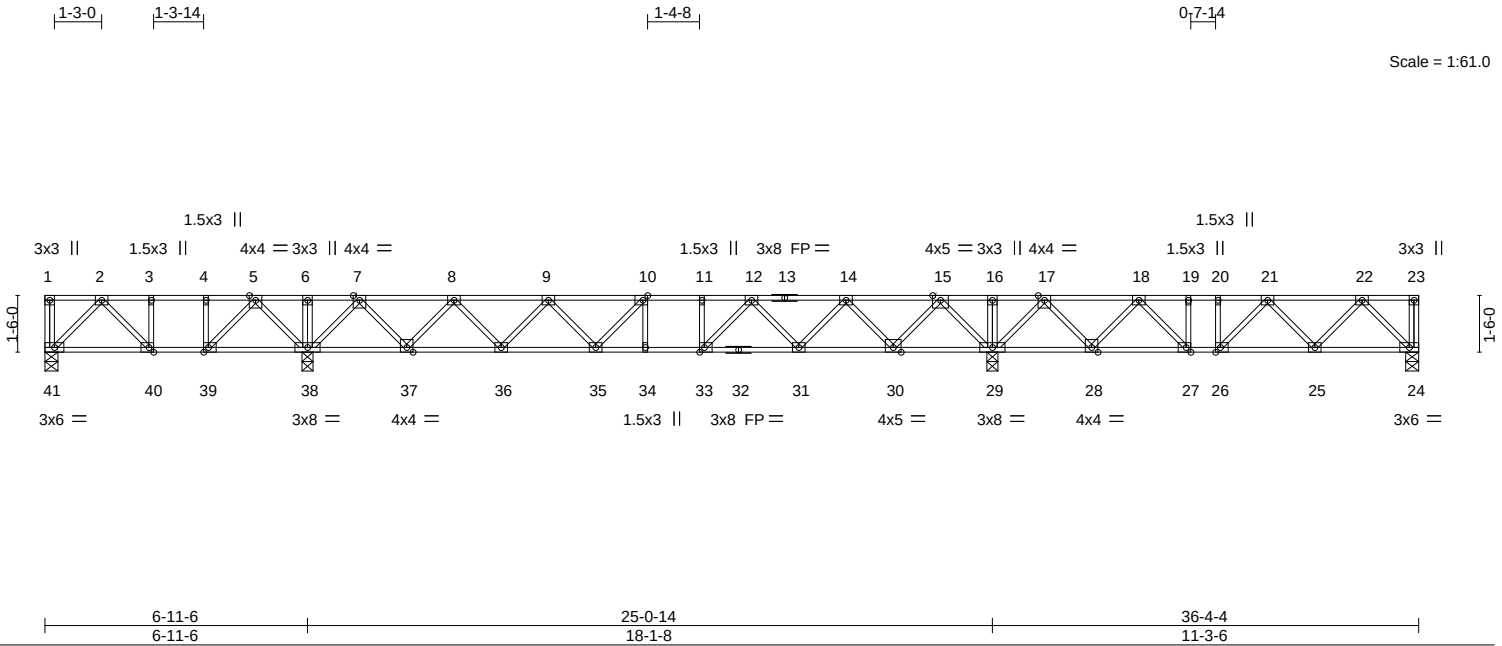

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>965	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=338(LC 5), 24=590(LC 5), 38=1865(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/447, 3-4=-280/447, 4-5=-280/447, 5-6=0/1395, 6-7=0/1395, 7-8=-550/0, 8-9=-1671/0, 9-10=-2227/0, 10-11=-2274/0, 11-12=-2274/0, 12-14=-1445/0, 14-15=-169/275, 15-16=0/2080, 16-17=0/2080, 17-18=-189/984, 18-19=-918/334, 19-20=-918/334, 20-21=-918/334, 21-22=-779/13
BOT CHORD 40-41=-136/257, 39-40=-447/280, 38-39=-913/0, 37-38=-347/0, 36-37=0/1238, 35-36=0/2103, 34-35=0/2274, 33-34=0/2274, 31-33=0/1939, 30-31=0/956, 29-30=-915/0, 28-29=-1322/0, 27-28=-650/654, 26-27=-334/918, 25-26=-104/985, 24-25=0/535
WEBS 2-41=-363/193, 2-40=-450/34, 5-38=-886/0, 5-39=0/846, 4-39=-448/0, 7-38=-1512/0, 7-37=0/1122, 8-37=-1072/0, 8-36=0/666, 9-36=-646/0, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-780/0, 12-33=0/674, 11-33=-287/0, 17-29=-1285/0, 17-28=0/868, 18-28=-869/0, 18-27=0/694, 19-27=-333/0, 22-24=-757/0, 22-25=-68/363, 21-25=-307/135, 21-26=-445/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F38	Floor	4	1	I50026115
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:26 2022 Page 1
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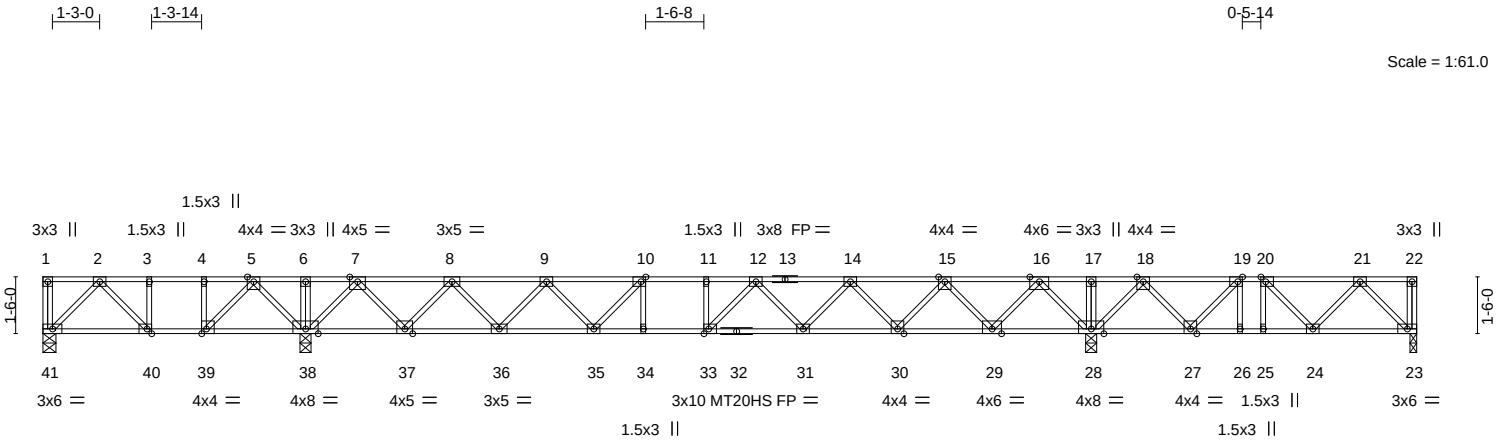

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-6	27-8-14	36-4-4
6-11-6	20-9-8	8-7-6

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>868	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 23=0-2-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-163(LC 6), 23=-234(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=308(LC 5), 23=352(LC 5), 38=2069(LC 3), 28=2460(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-206/614, 3-4=-206/614, 4-5=-206/614, 5-6=0/1737, 6-7=0/1737, 7-8=-488/0, 8-9=-1870/0, 9-10=-2654/0, 10-11=-2901/0, 11-12=-2901/0, 12-14=-2363/0, 14-15=-1291/0, 15-16=0/501, 16-17=0/2862, 17-18=0/2862, 18-19=0/1626, 19-20=-268/1036, 20-21=-317/580
BOT CHORD 39-40=-614/206, 38-39=-1187/0, 37-38=-543/0, 36-37=0/1318, 35-36=0/2404, 34-35=0/2901, 33-34=0/2901, 31-33=0/2740, 30-31=0/1966, 29-30=0/592, 28-29=-1510/0, 27-28=-2132/0, 26-27=-1036/268, 25-26=-1036/268, 24-25=-1036/268, 23-24=-240/307
WEBS 2-41=-324/280, 2-40=-602/0, 3-40=-10/317, 5-38=-968/0, 5-39=0/1001, 4-39=-551/0, 7-38=-1700/0, 7-37=0/1309, 8-37=-1261/0, 8-36=0/844, 9-36=-816/0, 9-35=0/451, 10-35=-505/0, 16-28=-1913/0, 16-29=0/1500, 15-29=-1476/0, 15-30=0/1060, 14-30=-1022/0, 14-31=0/607, 12-31=-582/0, 12-33=-39/510, 18-28=-1305/0, 18-27=0/953, 19-27=-1068/0, 19-26=0/460, 21-23=-434/340, 21-24=-505/15, 20-24=0/660, 20-25=-447/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 41 and 234 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F39	Floor	3	1	I50026116
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:27 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-3zjJhYJZGiB3Jc9jkX1tN1ew7Qp95mqnaVbYkuzpDqc

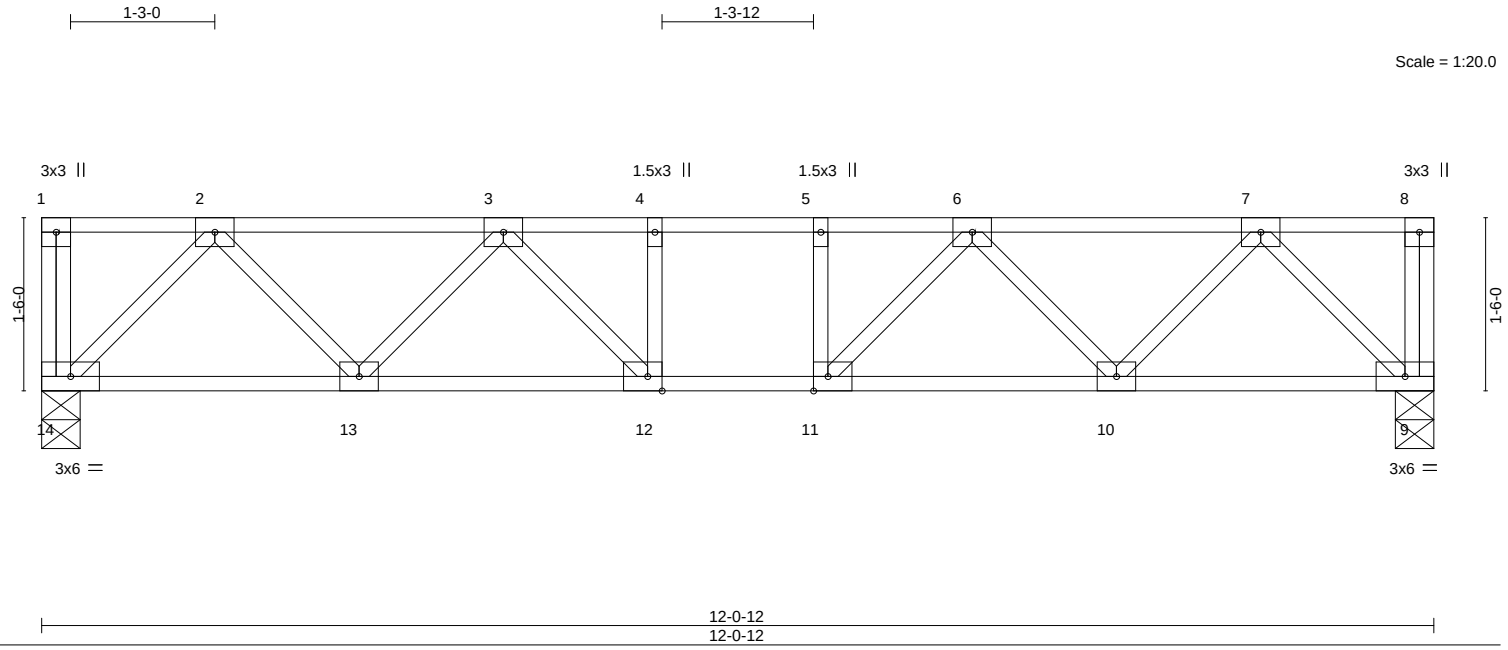

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F40	Floor	24	1	I50026117
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:30 2022 Page 1
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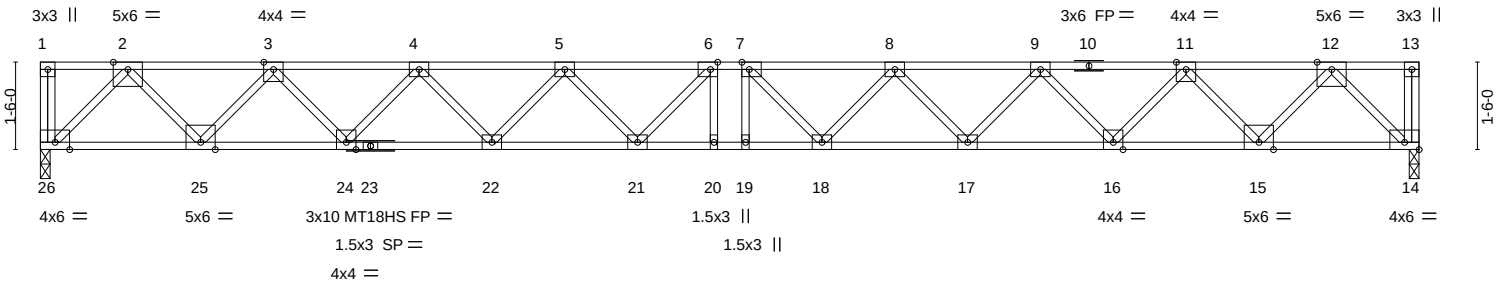

23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>613	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.75	20	>377	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-4400/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5659/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 24-25=0/3616, 22-24=0/5162, 21-22=0/6130, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2065/0, 2-25=0/1622, 3-25=-1583/0, 3-24=0/1166, 4-24=-1134/0, 4-22=0/737, 5-22=-703/0, 5-21=-33/458, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F41	Floor	3	1	I50026118
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:32 2022 Page 1
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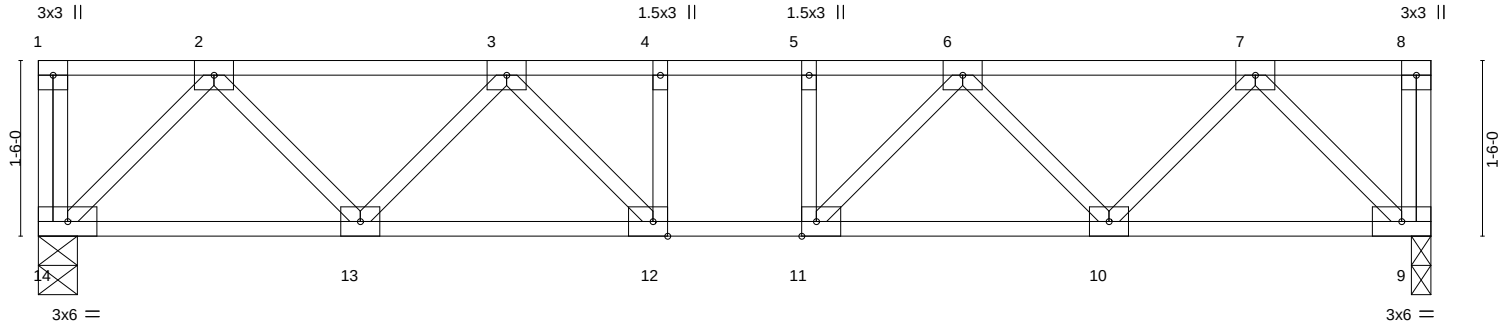

11-10-12
11-10-12

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F42	Floor	5	1	I50026119
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:34 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-LJey9yPyds33ehC3eVfW9VQzZF67EnUpB4nQU_zpDqV

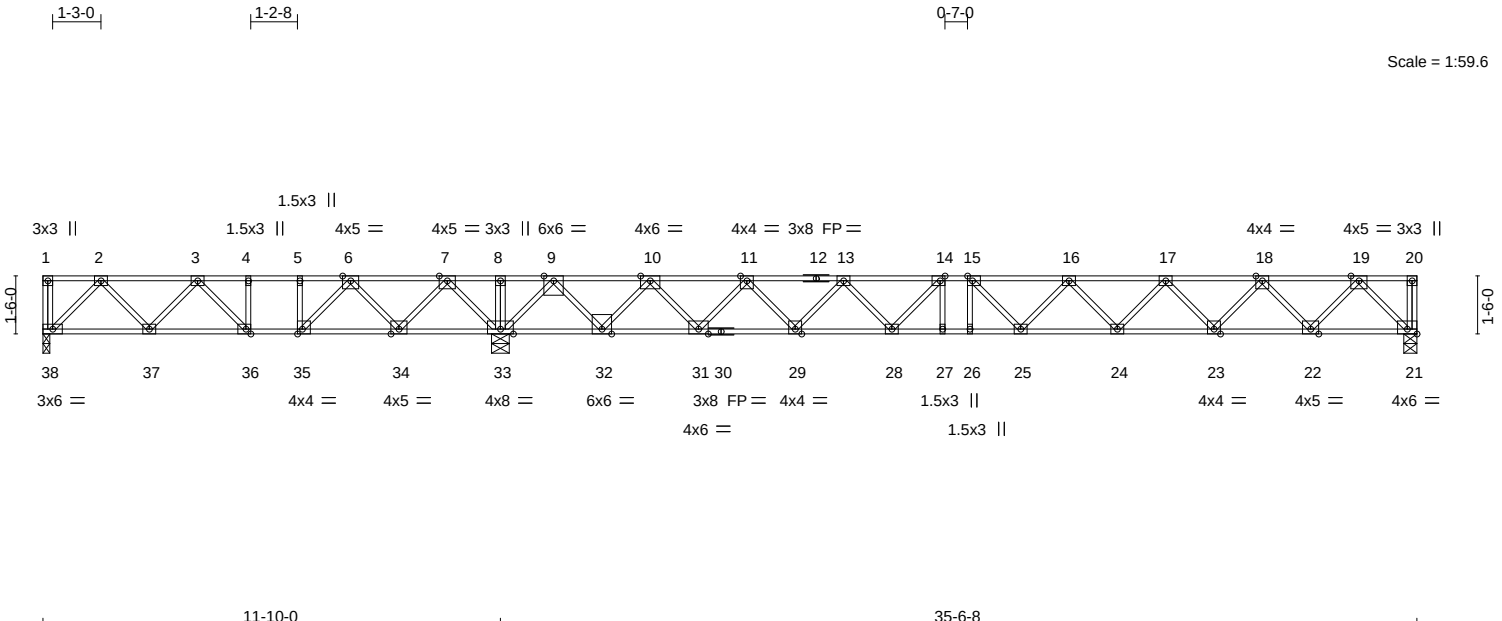

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>814	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.55	25-26	>511	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing.

REACTIONS. (size) 38=0-2-2, 21=0-4-1, 33=0-5-8
Max Uplift 38=-154(LC 4)
Max Grav 38=543(LC 3), 21=1311(LC 4), 33=3012(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-696/397, 3-4=-678/1278, 4-5=-678/1278, 5-6=-678/1278, 6-7=0/2544, 7-8=0/4049, 8-9=0/4049, 9-10=0/1061, 10-11=-1473/0, 11-13=-3151/0, 13-14=-4230/0, 14-15=-4687/0, 15-16=-4768/0, 16-17=-4492/0, 17-18=-3615/0, 18-19=-2149/0
BOT CHORD 37-38=-178/487, 36-37=-693/853, 35-36=-1278/678, 34-35=-1980/224, 33-34=-3077/0, 32-33=-2365/0, 31-32=-276/475, 29-31=0/2447, 28-29=0/3826, 27-28=0/4687, 26-27=0/4687, 25-26=0/4687, 24-25=0/4781, 23-24=0/4185, 22-23=0/3023, 21-22=0/1249
WEBS 2-38=-689/252, 2-37=-325/310, 3-37=-234/439, 3-36=-934/0, 4-36=0/466, 7-33=-1639/0, 7-34=0/1180, 6-34=-1235/0, 6-35=0/1302, 5-35=-694/0, 9-33=-2382/0, 9-32=0/1947, 10-32=-1924/0, 10-31=0/1505, 11-31=-1471/0, 11-29=0/1069, 13-29=-1026/0, 13-28=0/701, 14-28=-836/0, 14-27=-74/407, 19-21=-1767/0, 19-22=0/1337, 18-22=-1300/0, 18-23=0/880, 17-23=-847/0, 17-24=0/456, 16-24=-429/0, 15-25=-218/428, 15-26=-390/91

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F43	Floor	1	1	I50026120
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-qWBLNIPaO9BwGrmFCCAlhjz95fSUzEpzQkXz0QzpDqU

1-3-0 1-2-8 0-5-8

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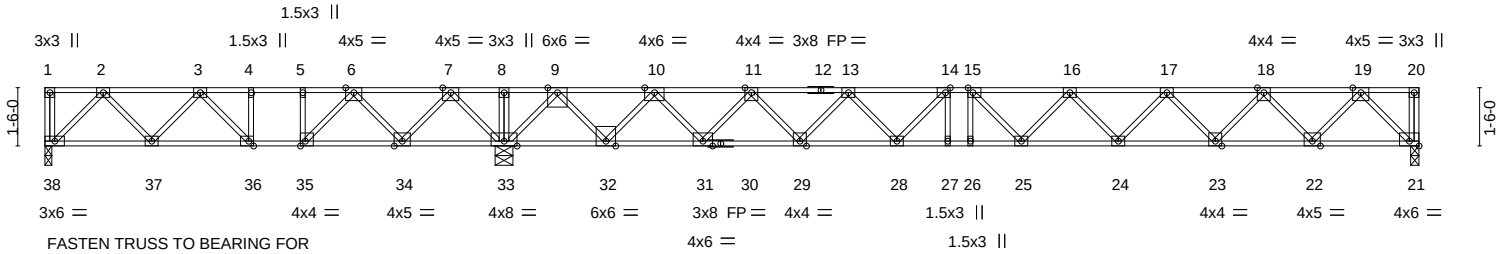

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-10-0 35-5-0
11-10-0 23-7-0

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.34	25-26	>832	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.54	25-26	>523	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS. (size) 38=0-2-2, 21=0-2-9, 33=0-5-8
Max Uplift 38=-149(LC 4)
Max Grav 38=544(LC 3), 21=1304(LC 4), 33=2999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-698/388, 3-4=-685/1258, 4-5=-685/1258, 5-6=-685/1258, 6-7=0/2513, 7-8=0/4011, 8-9=0/4011, 9-10=0/1052, 10-11=-1478/0, 11-13=-3140/0, 13-14=-4203/0, 14-15=-4641/0, 15-16=-4717/0, 16-17=-4453/0, 17-18=-3590/0, 18-19=-2136/0
BOT CHORD 37-38=-174/489, 36-37=-679/857, 35-36=-1258/685, 34-35=-1953/233, 33-34=-3041/0, 32-33=-2336/0, 31-32=-274/489, 29-31=0/2444, 28-29=0/3808, 27-28=0/4641, 26-27=0/4641, 25-26=0/4641, 24-25=0/4734, 23-24=0/4153, 22-23=0/3004, 21-22=0/1242
WEBS 2-38=-691/246, 2-37=-319/312, 3-37=-236/432, 3-36=-924/0, 4-36=0/461, 7-33=-1633/0, 7-34=0/1175, 6-34=-1229/0, 6-35=0/1292, 5-35=-689/0, 9-33=-2370/0, 9-32=0/1934, 10-32=-1911/0, 10-31=0/1493, 11-31=-1458/0, 11-29=0/1057, 13-29=-1015/0, 13-28=0/689, 14-28=-801/0, 14-27=-85/400, 19-21=-1757/0, 19-22=0/1328, 18-22=-1290/0, 18-23=0/871, 17-23=-838/0, 17-24=0/446, 16-24=-418/0, 16-25=-258/203, 15-25=-210/414, 15-26=-384/100

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F44	Floor	5	1	I50026121
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:37 2022 Page 1
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1-3-0 1-4-8 1-6-8

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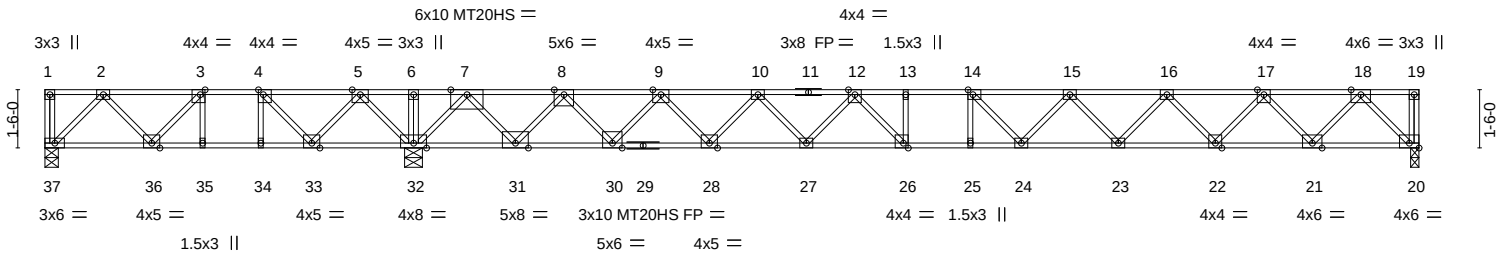

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-6-0 35-5-0
9-6-0 25-11-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.44	25	>701	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.71	24-25	>436	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,3-35,4-34,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-4-2, 20=0-2-9, 32=0-5-8
Max Uplift 37=-377(LC 4)
Max Grav 37=350(LC 3), 20=1458(LC 7), 32=3143(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-306/862, 3-4=-161/1677, 4-5=0/2673, 5-6=0/4326, 6-7=0/4326, 7-8=0/1091, 8-9=-1700/0, 9-10=-3636/0, 10-12=-4957/0, 12-13=-5868/0, 13-14=-5868/0, 14-15=-5843/0, 15-16=-5305/0, 16-17=-4161/0, 17-18=-2429/0
BOT CHORD 36-37=-341/323, 35-36=-1677/161, 34-35=-1677/161, 33-34=-1677/161, 32-33=-3395/0, 31-32=-2525/0, 30-31=-15/576, 28-30=0/2801, 27-28=0/4442, 26-27=0/5483, 25-26=0/5868, 24-25=0/5868, 23-24=0/5733, 22-23=0/4862, 21-22=0/3437, 20-21=0/1395
WEBS 2-37=-456/482, 2-36=-775/0, 3-36=0/1180, 3-35=-667/0, 5-32=-1519/0, 5-33=0/1313, 4-33=-1702/0, 4-34=0/695, 7-32=-2548/0, 7-31=0/2132, 8-31=-2116/0, 8-30=0/1691, 9-30=-1657/0, 9-28=0/1264, 10-28=-1217/0, 10-27=0/785, 12-27=-805/0, 12-26=0/909, 13-26=-404/0, 18-20=-1973/0, 18-21=0/1536, 17-21=-1499/0, 17-22=0/1077, 16-22=-1042/0, 16-23=0/658, 15-23=-636/0, 15-24=-107/396, 14-24=-433/355, 14-25=-302/92

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 37.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F45	FLOOR	2	1	I50026122
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:39 2022 Page 1
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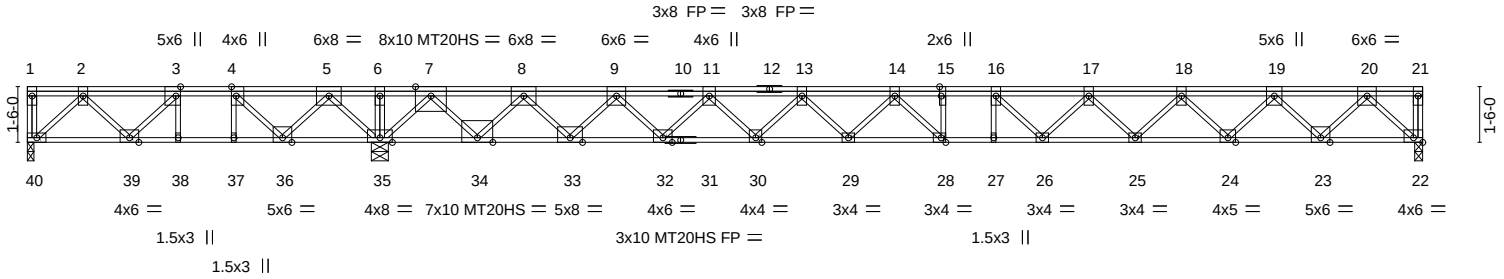

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-6-0 37-7-4
9-6-0 28-1-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,Edge], [22:Edge,0-1-8], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.45	28	>754	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.72	28	>468	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
31-40: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,3-38,4-37,15-28,16-27,6-35: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.

REACTIONS. (size) 40=0-2-2, 35=0-5-8, 22=0-2-9
Max Uplift 40=-590(LC 4)
Max Grav 40=263(LC 3), 35=3557(LC 1), 22=1542(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-103/1419, 3-4=0/2505, 4-5=0/3779, 5-6=0/5931, 6-7=0/5931, 7-8=0/2217, 8-9=-963/0, 9-11=-3355/0, 11-13=-5141/0, 13-14=-6295/0, 14-15=-6924/0, 15-16=-6924/0, 16-17=-6744/0, 17-18=-6022/0, 18-19=-4668/0, 19-20=-2699/0
BOT CHORD 39-40=-518/267, 38-39=-2505/0, 37-38=-2505/0, 36-37=-2505/0, 35-36=-4892/0, 34-35=-3899/0, 33-34=-729/0, 32-33=0/2298, 30-32=0/4388, 29-30=0/5869, 28-29=0/6701, 27-28=0/6924, 26-27=0/6924, 25-26=0/6539, 24-25=0/5482, 23-24=0/3832, 22-23=0/1540
WEBS 2-40=-370/716, 2-39=-1307/0, 3-39=0/1535, 3-38=-288/0, 5-35=-1707/0, 5-36=0/1872, 4-36=-2071/0, 4-37=0/315, 7-35=-2810/0, 7-34=0/2438, 8-34=-2416/0, 8-33=0/1985, 9-33=-1948/0, 9-32=0/1543, 11-32=-1510/0, 11-30=0/1102, 13-30=-1067/0, 13-29=0/641, 14-29=-631/0, 14-28=-211/782, 15-28=-463/128, 20-22=-2129/0, 20-23=0/1681, 19-23=-1642/0, 19-24=0/1213, 18-24=-1180/0, 18-25=0/782, 17-25=-751/0, 17-26=-89/555, 16-26=-569/183, 6-35=-391/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 40.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F46	Floor	4	1	I50026123
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:40 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-AT?EQ?TiDiqDNcfD?mmwOmg8xgEOefLia0EkhezpDqP

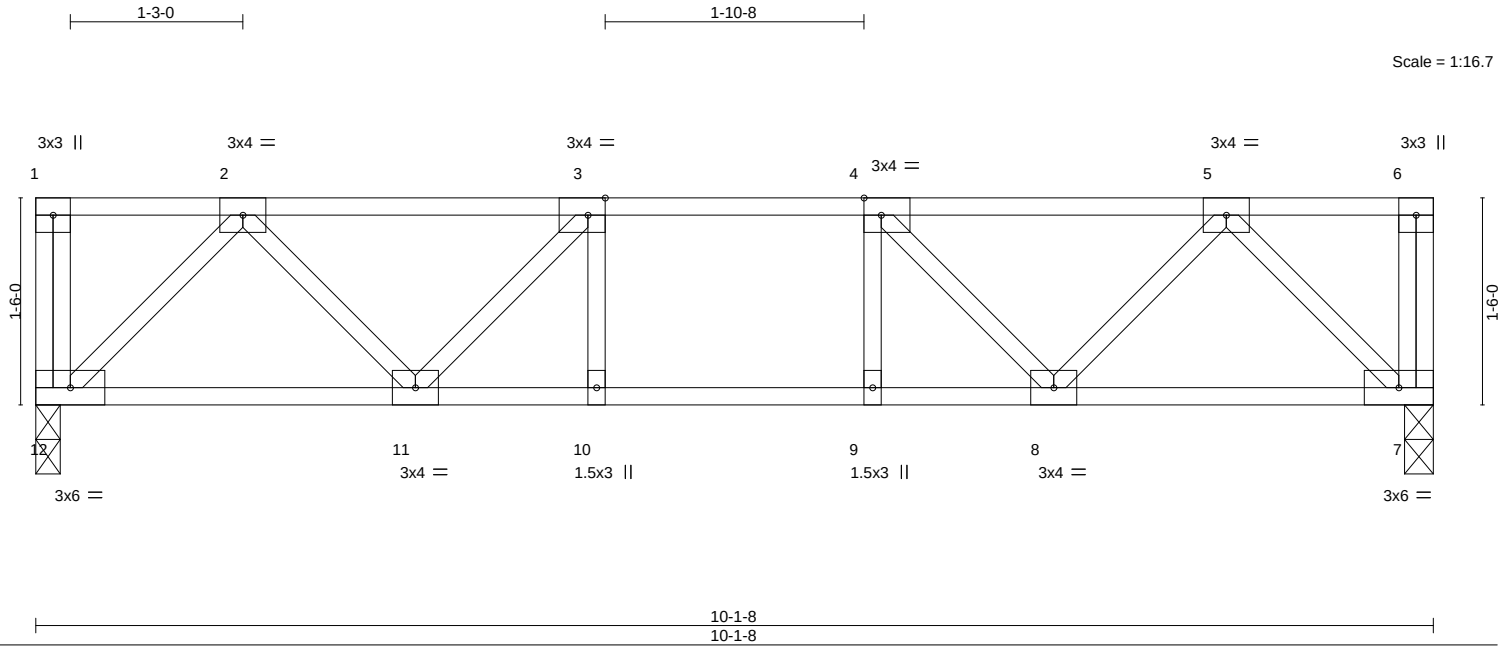

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-2, 7=0-2-8
Max Grav 12=642(LC 1), 7=642(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/0, 3-4=-1142/0, 4-5=-869/0
BOT CHORD 11-12=0/587, 10-11=0/1142, 9-10=0/1142, 8-9=0/1142, 7-8=0/587
WEBS 2-12=-831/0, 2-11=0/419, 3-11=-427/0, 5-7=-831/0, 5-8=0/419, 4-8=-427/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F47	Floor	5	1	I50026124
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:42 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-6s7_rhVzkJ4xcwpb6AoOUBlKfTsb6OQ?1KjrmWzpDqN

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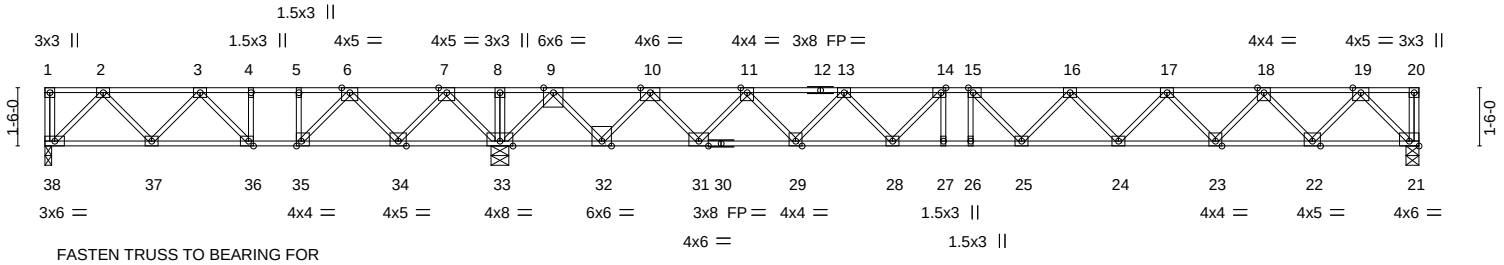

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-13 35-5-4
11-8-13 23-8-7

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.34	25-26	>822	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.55	25-26	>516	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-1, 21=0-4-0, 33=0-5-8
Max Uplift 38=-169(LC 4)
Max Grav 38=532(LC 3), 21=1307(LC 4), 33=3022(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-673/426, 3-4=-640/1323, 4-5=-640/1323, 5-6=-640/1323, 6-7=0/2595, 7-8=0/4118, 8-9=0/4118, 9-10=0/1118, 10-11=-1416/0, 11-13=-3102/0, 13-14=-4188/0, 14-15=-4649/0, 15-16=-4735/0, 16-17=-4467/0, 17-18=-3599/0, 18-19=-2140/0
BOT CHORD 37-38=-193/476, 36-37=-734/821, 35-36=-1323/640, 34-35=-2023/195, 33-34=-3138/0, 32-33=-2431/0, 31-32=-314/416, 29-31=0/2394, 28-29=0/3780, 27-28=0/4649, 26-27=0/4649, 25-26=0/4649, 24-25=0/4752, 23-24=0/4164, 22-23=0/3011, 21-22=0/1245
WEBS 2-38=-673/273, 2-37=-347/294, 3-37=-220/457, 3-36=-946/0, 4-36=0/473, 7-33=-1647/0, 7-34=0/1191, 6-34=-1241/0, 6-35=0/1291, 5-35=-686/0, 9-33=-2387/0, 9-32=0/1951, 10-32=-1929/0, 10-31=0/1510, 11-31=-1476/0, 11-29=0/1074, 13-29=-1030/0, 13-28=0/705, 14-28=-840/0, 14-27=-72/409, 19-21=-1761/0, 19-22=0/1331, 18-22=-1294/0, 18-23=0/874, 17-23=-841/0, 17-24=0/450, 16-24=-423/0, 16-25=-254/205, 15-25=-212/432, 15-26=-392/88

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F48	Floor	1	1	I50026125
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:43 2022 Page 1
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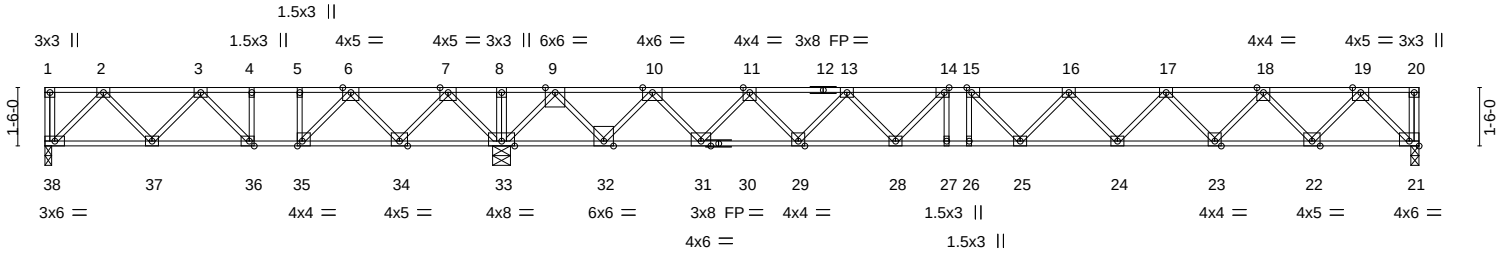

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-13 35-3-12
11-8-13 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.33	25-26	>840	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.53	25-26	>528	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-1, 21=0-2-8, 33=0-5-8
Max Uplift 38=-164(LC 4)
Max Grav 38=533(LC 3), 21=1300(LC 4), 33=3008(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-676/417, 3-4=-646/1303, 4-5=-646/1303, 5-6=-646/1303, 6-7=0/2563, 7-8=0/4079, 8-9=0/4079, 9-10=0/1096, 10-11=-1423/0, 11-13=-3091/0, 13-14=-4161/0, 14-15=-4603/0, 15-16=-4684/0, 16-17=-4429/0, 17-18=-3573/0, 18-19=-2127/0
BOT CHORD 37-38=-188/477, 36-37=-720/826, 35-36=-1303/646, 34-35=-1995/203, 33-34=-3102/0, 32-33=-2401/0, 31-32=-312/430, 29-31=0/2392, 28-29=0/3762, 27-28=0/4603, 26-27=0/4603, 25-26=0/4603, 24-25=0/4705, 23-24=0/4132, 22-23=0/2991, 21-22=0/1238
WEBS 2-38=-675/266, 2-37=-340/296, 3-37=-222/450, 3-36=-936/0, 4-36=0/468, 7-33=-1641/0, 7-34=0/1185, 6-34=-1234/0, 6-35=0/1282, 5-35=-681/0, 9-33=-2374/0, 9-32=0/1939, 10-32=-1916/0, 10-31=0/1498, 11-31=-1463/0, 11-29=0/1062, 13-29=-1020/0, 13-28=0/693, 14-28=-805/0, 14-27=-83/402, 19-21=-1751/0, 19-22=0/1322, 18-22=-1284/0, 18-23=0/865, 17-23=-832/0, 17-24=0/440, 16-24=-412/0, 16-25=-262/199, 15-25=-204/418, 15-26=-386/98

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

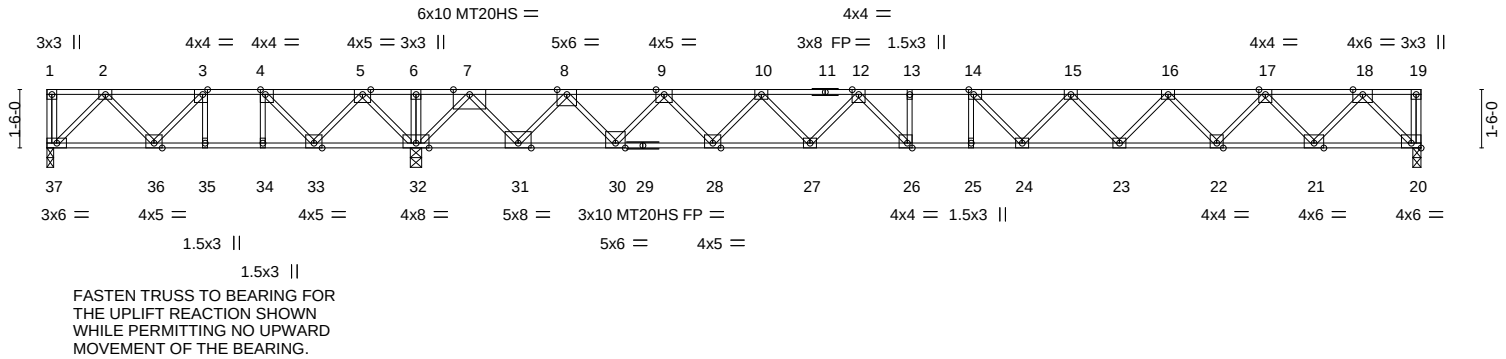
Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F50	Floor	5	1	I50026126
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:46 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-?dMVg2YToYaM5X6NL0tKe1w084CN2Haayyi3vHzpDqJ

1-3-0 1-4-5 1-5-7

Scale = 1:59.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-5-13 35-3-12
9-5-13 25-9-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.43	24-25	>713	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.70	24-25	>443	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 189 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,3-35,4-34,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-2-1, 20=0-2-8, 32=0-3-8
Max Uplift 37=-378(LC 4)
Max Grav 37=348(LC 3), 20=1452(LC 7), 32=3138(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-303/864, 3-4=-157/1677, 4-5=0/2671, 5-6=0/4324, 6-7=0/4324, 7-8=0/1097, 8-9=-1683/0, 9-10=-3609/0, 10-12=-4922/0, 12-13=-5817/0, 13-14=-5817/0, 14-15=-5796/0, 15-16=-5269/0, 16-17=-4137/0, 17-18=-2416/0
BOT CHORD 36-37=-342/321, 35-36=-1677/157, 34-35=-1677/157, 33-34=-1677/157, 32-33=-3392/0, 31-32=-2527/0, 30-31=-36/563, 28-30=0/2778, 27-28=0/4410, 26-27=0/5443, 25-26=0/5817, 24-25=0/5817, 23-24=0/5691, 22-23=0/4833, 21-22=0/3419, 20-21=0/1389
WEBS 2-37=-454/484, 2-36=-775/0, 3-36=0/1177, 3-35=-666/0, 5-32=-1520/0, 5-33=0/1312, 4-33=-1697/0, 4-34=0/693, 7-32=-2541/0, 7-31=0/2125, 8-31=-2109/0, 8-30=0/1684, 9-30=-1650/0, 9-28=0/1256, 10-28=-1211/0, 10-27=0/779, 12-27=-797/0, 12-26=0/889, 13-26=-391/0, 18-20=-1964/0, 18-21=0/1527, 17-21=-1490/0, 17-22=0/1068, 16-22=-1034/0, 16-23=0/649, 15-23=-627/0, 15-24=-115/388, 14-24=-422/355, 14-25=-299/90

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 37, 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 37.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F51	FLOOR	2	1	I50026127
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-x0UF5kakK9q4KrGlTRvojS?PguvTWAjtPGB9zAzpDqH

1-3-0 1-4-5 1-1-11

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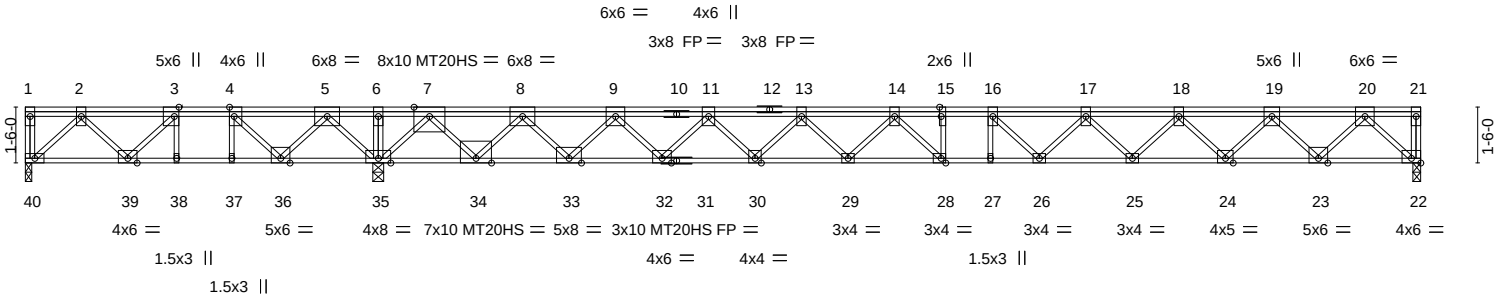

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-5-13 37-6-0
9-5-13 28-0-3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,Edge], [22:Edge,0-1-8], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.44	28	>761	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.71	28	>473	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 252 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
22-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,6-35,3-38,4-37,15-28,16-27: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.

REACTIONS. (size) 40=0-2-1, 35=0-3-8, 22=0-2-8
Max Uplift 40=-588(LC 4)
Max Grav 40=262(LC 3), 35=3547(LC 1), 22=1537(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-104/1413, 3-4=0/2491, 4-5=0/3757, 5-6=0/5902, 6-7=0/5902, 7-8=0/2200, 8-9=-968/0, 9-11=-3348/0, 11-13=-5122/0, 13-14=-6265/0, 14-15=-6879/0, 15-16=-6879/0, 16-17=-6704/0, 17-18=-5991/0, 18-19=-4648/0, 19-20=-2689/0
BOT CHORD 39-40=-517/267, 38-39=-2491/0, 37-38=-2491/0, 36-37=-2491/0, 35-36=-4865/0, 34-35=-3875/0, 33-34=-724/0, 32-33=0/2297, 30-32=0/4376, 29-30=0/5844, 28-29=0/6664, 27-28=0/6879, 26-27=0/6879, 25-26=0/6504, 24-25=0/5457, 23-24=0/3816, 22-23=0/1535
WEBS 6-35=-388/0, 2-40=-369/715, 2-39=-1300/0, 3-39=0/1525, 3-38=-286/0, 5-35=-1705/0, 5-36=0/1863, 4-36=-2059/0, 4-37=0/313, 7-35=-2802/0, 7-34=0/2430, 8-34=-2407/0, 8-33=0/1977, 9-33=-1939/0, 9-32=0/1535, 11-32=-1502/0, 11-30=0/1093, 13-30=-1059/0, 13-29=0/636, 14-29=-624/0, 14-28=-213/761, 15-28=-448/130, 20-22=-2122/0, 20-23=0/1674, 19-23=-1635/0, 19-24=0/1206, 18-24=-1172/0, 18-25=0/775, 17-25=-743/0, 17-26=-93/544, 16-26=-556/184

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 40.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F52	Floor	5	1	I50026128
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:49 2022 Page 1
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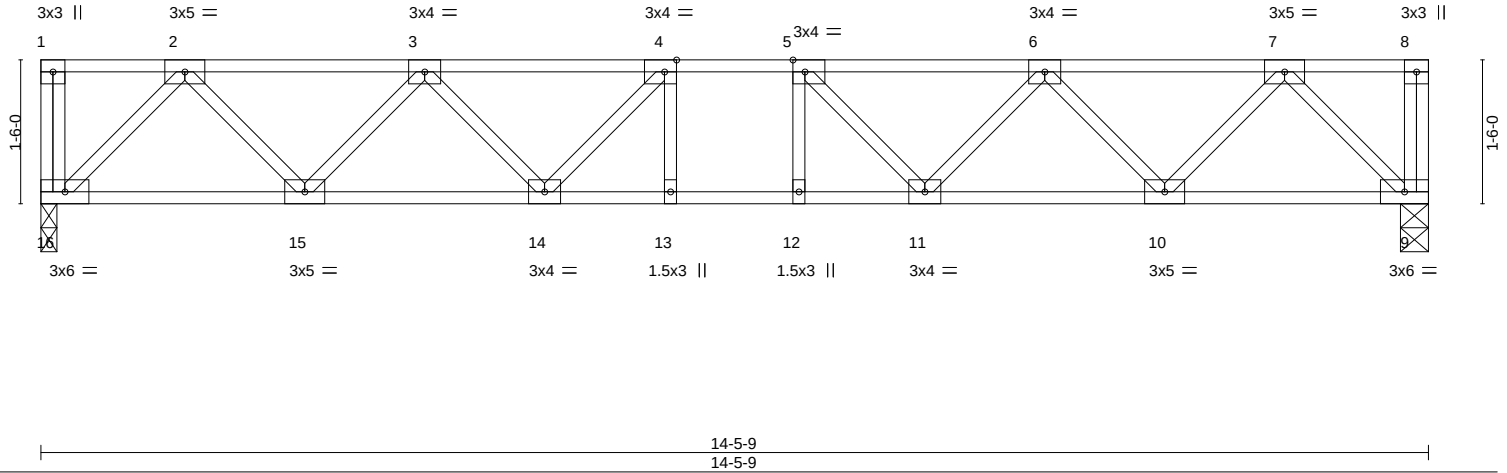
1-3-0 1-2-9

Scale: 1/2"=1'



14-5-9
14-5-9

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=924(LC 1), 9=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/0, 3-4=-2169/0, 4-5=-2390/0, 5-6=-2169/0, 6-7=-1414/0
BOT CHORD 15-16=0/862, 14-15=0/1940, 13-14=0/2390, 12-13=0/2390, 11-12=0/2390, 10-11=0/1940, 9-10=0/862
WEBS 2-16=-1219/0, 2-15=0/821, 3-15=-782/0, 3-14=0/389, 4-14=-448/0, 7-9=-1219/0, 7-10=0/821, 6-10=-782/0, 6-11=0/389, 5-11=-448/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F53	Floor	2	1	I50026129
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:50 2022 Page 1
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1-3-0 | 1-8-12 | 1-9-0

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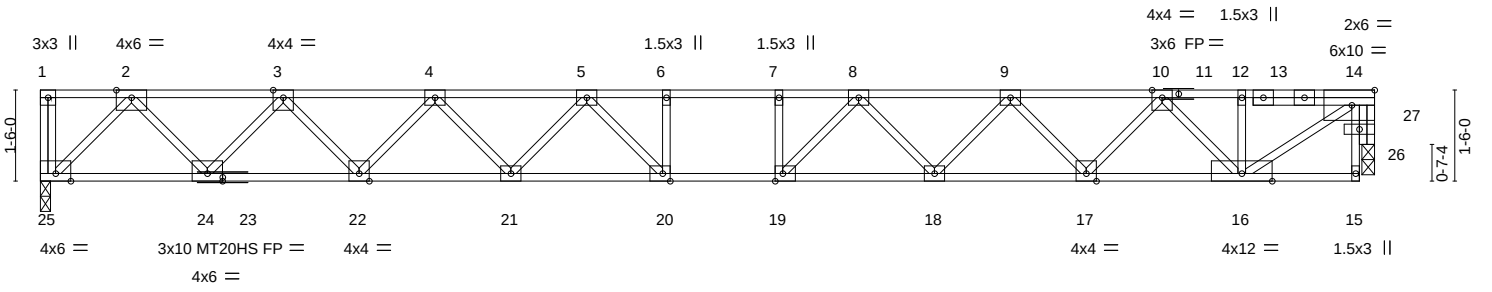

21-11-12
21-11-12

Plate Offsets (X,Y)-- [14:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.35	20	>753	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.56	20	>463	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 15-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 14-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-2-0, 27=0-2-8
Max Grav 25=1411(LC 1), 27=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2339/0, 3-4=-3987/0, 4-5=-5041/0, 5-6=-5529/0, 6-7=-5529/0, 7-8=-5529/0, 8-9=-4863/0, 9-10=-3690/0, 10-12=-1901/0, 12-14=-1905/0
BOT CHORD	24-25=0/1349, 22-24=0/3302, 21-22=0/4653, 20-21=0/5397, 19-20=0/5529, 18-19=0/5288, 17-18=0/4423, 16-17=0/2931
WEBS	2-25=-1908/0, 2-24=0/1472, 3-24=-1432/0, 3-22=0/1018, 4-22=-991/0, 4-21=0/577, 5-21=-558/0, 5-20=-203/590, 6-20=-300/30, 14-16=0/2132, 10-16=-1491/0, 10-17=0/1128, 9-17=-1091/0, 9-18=0/654, 8-18=-634/0, 8-19=-89/702, 7-19=-349/0, 14-27=-1424/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25, 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

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Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F54	Floor	5	1	I50026130
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:51 2022 Page 1
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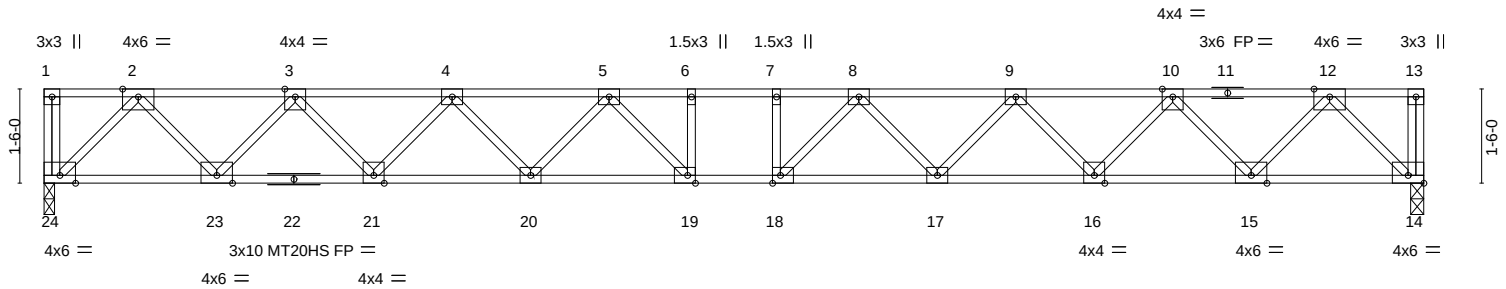
1-3-0 1-2-12

Scale = 1:36.7



21-11-12
21-11-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.37	18-19	>710	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.60	18-19	>437	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 24=0-2-0, 14=0-2-8
Max Grav 24=1412(LC 1), 14=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2342/0, 3-4=-3993/0, 4-5=-5046/0, 5-6=-5552/0, 6-7=-5552/0, 7-8=-5552/0, 8-9=-5046/0, 9-10=-3993/0, 10-12=-2341/0
BOT CHORD 23-24=0/1351, 21-23=0/3306, 20-21=0/4659, 19-20=0/5409, 18-19=0/5552, 17-18=0/5409, 16-17=0/4659, 15-16=0/3306, 14-15=0/1351
WEBS 2-24=-1911/0, 2-23=0/1473, 3-23=-1433/0, 3-21=0/1020, 4-21=-991/0, 4-20=0/576, 5-20=-560/0, 5-19=-181/557, 6-19=-262/26, 12-14=-1910/0, 12-15=0/1472, 10-15=-1434/0, 10-16=0/1021, 9-16=-990/0, 9-17=0/575, 8-17=-560/0, 8-18=-181/557, 7-18=-262/26

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F55	Floor	5	1	I50026131
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:52 2022 Page 1
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1-3-0 1-8-11

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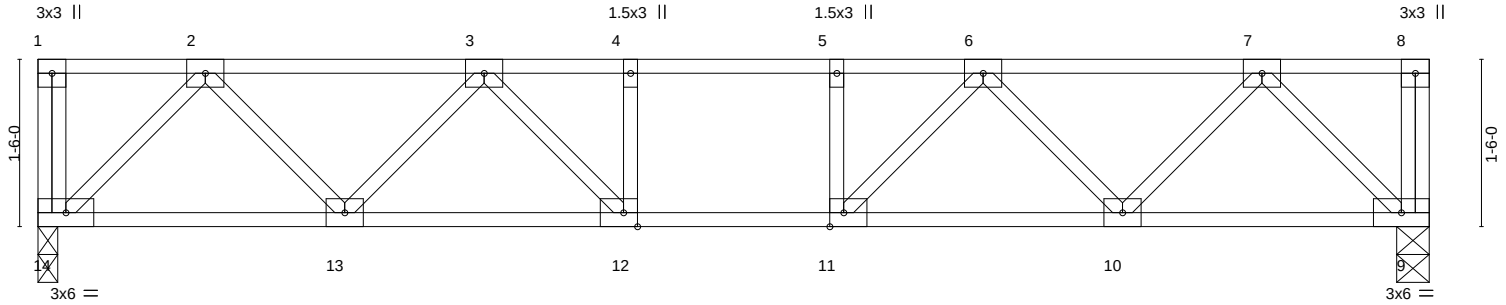

12-5-11
12-5-11

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-3-8
Max Grav 14=795(LC 1), 9=795(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/0, 3-4=-1740/0, 4-5=-1740/0, 5-6=-1740/0, 6-7=-1162/0
BOT CHORD 13-14=0/739, 12-13=0/1558, 11-12=0/1740, 10-11=0/1558, 9-10=0/739
WEBS 2-14=-1045/0, 2-13=0/629, 3-13=-589/0, 3-12=0/431, 7-9=-1045/0, 7-10=0/629, 6-10=-589/0, 6-11=0/431

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F56	Floor	2	1	I50026132
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-m9rWMneUw?bE2mjvpi0CzjFRJJxpwwdmoCeUBqzpDqB

1-3-0 0-11-7 1-5-5 1-9-0

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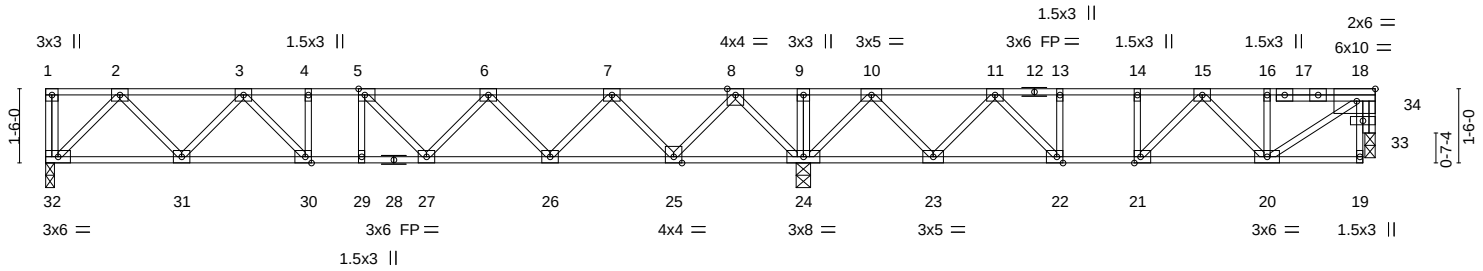

15-3-15 26-10-12
15-3-15 11-6-13

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.10	27-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.16	27-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-2-2, 24=0-3-8, 34=0-2-8
Max Grav 32=857(LC 3), 24=2102(LC 1), 34=602(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1273/0, 3-4=-2018/0, 4-5=-2018/0, 5-6=-1975/0, 6-7=-1461/0, 7-8=-335/224, 8-9=0/1796, 9-10=0/1796, 10-11=-294/715, 11-13=-1050/104, 13-14=-1050/104, 14-15=-1050/104, 15-16=-747/0, 16-18=-750/0
BOT CHORD 31-32=0/799, 30-31=0/1740, 29-30=0/2018, 27-29=0/2018, 26-27=0/1869, 25-26=0/1034, 24-25=-720/0, 23-24=-1011/0, 22-23=-413/762, 21-22=-104/1050, 20-21=0/994
WEBS 2-32=-1130/0, 2-31=0/705, 3-31=-694/0, 3-30=0/466, 8-24=-1522/0, 8-25=0/1114, 7-25=-1085/0, 7-26=0/679, 6-26=-649/0, 6-27=0/299, 5-27=-301/37, 10-24=-1244/0, 10-23=0/819, 11-23=-836/0, 11-22=0/708, 13-22=-360/0, 18-20=0/819, 15-20=-358/50, 15-21=-253/81, 18-34=-620/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32, 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F57	Floor	5	1	I50026133
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:55 2022 Page 1
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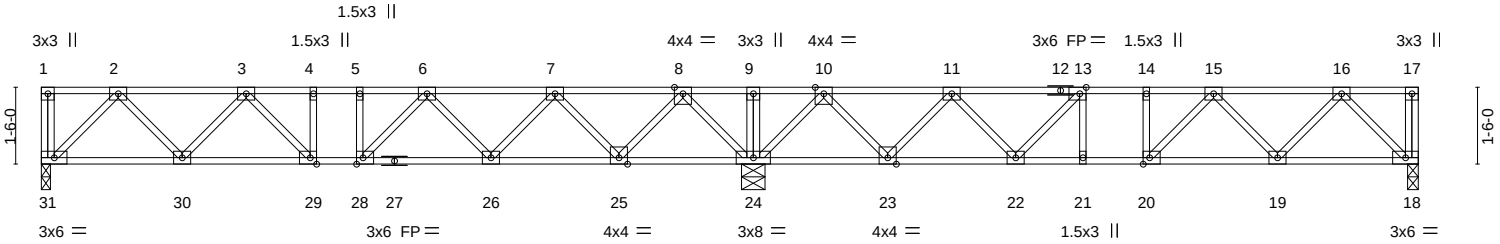

13-10-14 26-10-12
13-10-14 12-11-14

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [20:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.06	26-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.09	26-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-2, 18=0-2-8, 24=0-5-8
Max Grav 31=762(LC 3), 18=701(LC 4), 24=2121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1234/0, 7-8=-278/495, 8-9=0/1857, 9-10=0/1857, 10-11=-241/580, 11-13=-1088/86, 13-14=-1363/0, 14-15=-1363/0, 15-16=-986/0
BOT CHORD 30-31=0/706, 29-30=0/1470, 28-29=0/1615, 26-28=0/1540, 25-26=-195/900, 24-25=-857/0, 23-24=-942/0, 22-23=-292/810, 21-22=0/1363, 20-21=0/1363, 19-20=0/1298, 18-19=0/645
WEBS 2-31=-998/0, 2-30=0/586, 3-30=-550/0, 8-24=-1419/0, 8-25=0/1028, 7-25=-999/0, 7-26=0/565, 6-26=-532/0, 6-28=0/401, 10-24=-1356/0, 10-23=0/963, 11-23=-929/0, 11-22=0/511, 13-22=-584/0, 16-18=-912/0, 16-19=0/507, 15-19=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F58	Floor	5	1	I50026134
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:56 2022 Page 1
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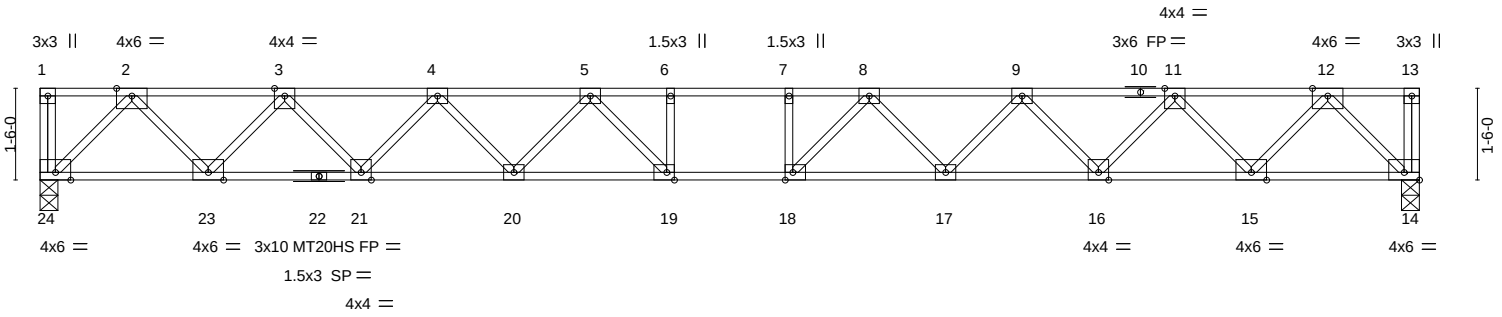

22-6-12
22-6-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>703	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4134/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 21-23=0/3412, 20-21=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1484/0, 3-21=0/1073, 4-21=-1042/0, 4-20=0/624, 5-20=-612/0, 5-19=-154/674, 6-19=-339/6, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F59	Floor	2	1	I50026135
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:57:57 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-AkXf_phNCwzovDSUUqZvaMtwfWx37DGCUAs8o8zpDq8

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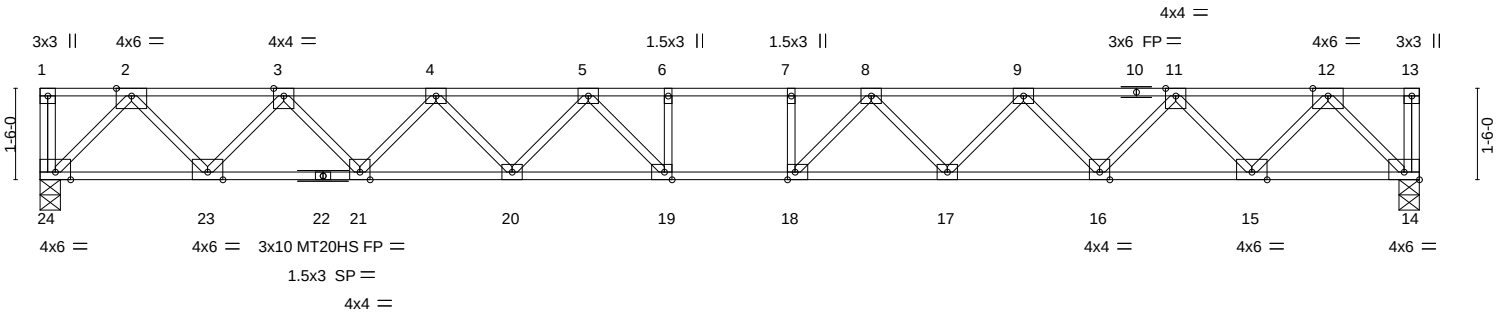

22-7-12
22-7-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.39	18-19	>696	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.63	18-19	>428	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-4-0, 14=0-4-0
Max Grav 24=1456(LC 1), 14=1456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2424/0, 3-4=-4154/0, 4-5=-5285/0, 5-6=-5886/0, 6-7=-5886/0, 7-8=-5886/0, 8-9=-5285/0, 9-11=-4154/0, 11-12=-2423/0
BOT CHORD 23-24=0/1394, 21-23=0/3428, 20-21=0/4860, 19-20=0/5686, 18-19=0/5886, 17-18=0/5686, 16-17=0/4860, 15-16=0/3427, 14-15=0/1394
WEBS 2-24=-1972/0, 2-23=0/1531, 3-23=-1492/0, 3-21=0/1080, 4-21=-1050/0, 4-20=0/631, 5-20=-620/0, 5-19=-149/691, 6-19=-349/1, 12-14=-1972/0, 12-15=0/1530, 11-15=-1492/0, 11-16=0/1081, 9-16=-1049/0, 9-17=0/632, 8-17=-621/0, 8-18=-149/691, 7-18=-349/1

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F72	Floor	10	1	I50026136
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:00 2022 Page 1
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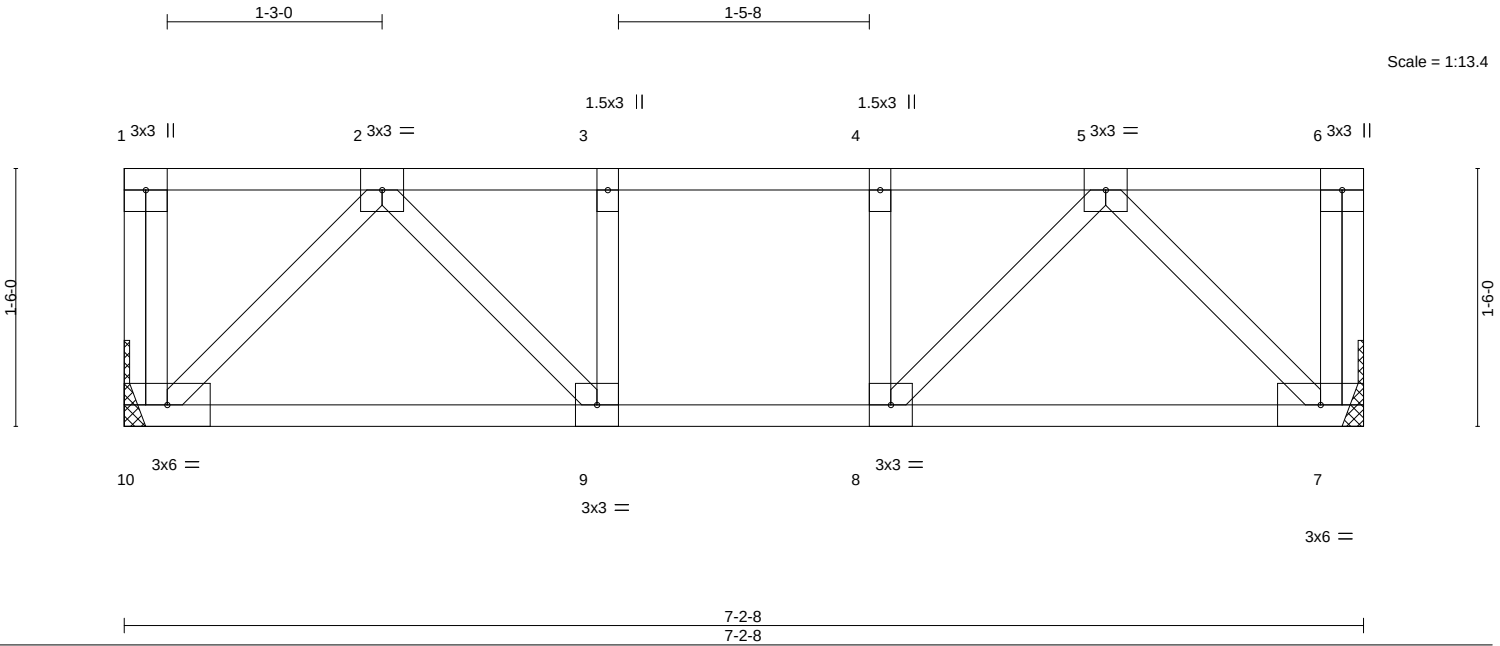

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=870(LC 1), 7=870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1074/0, 3-4=-1074/0, 4-5=-1074/0
BOT CHORD	9-10=0/723, 8-9=0/1074, 7-8=0/723
WEBS	2-10=-1022/0, 2-9=0/594, 5-7=-1022/0, 5-8=0/594, 4-8=-354/0, 3-9=-354/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	F74	Floor	19	1	I50026137
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:01 2022 Page 1
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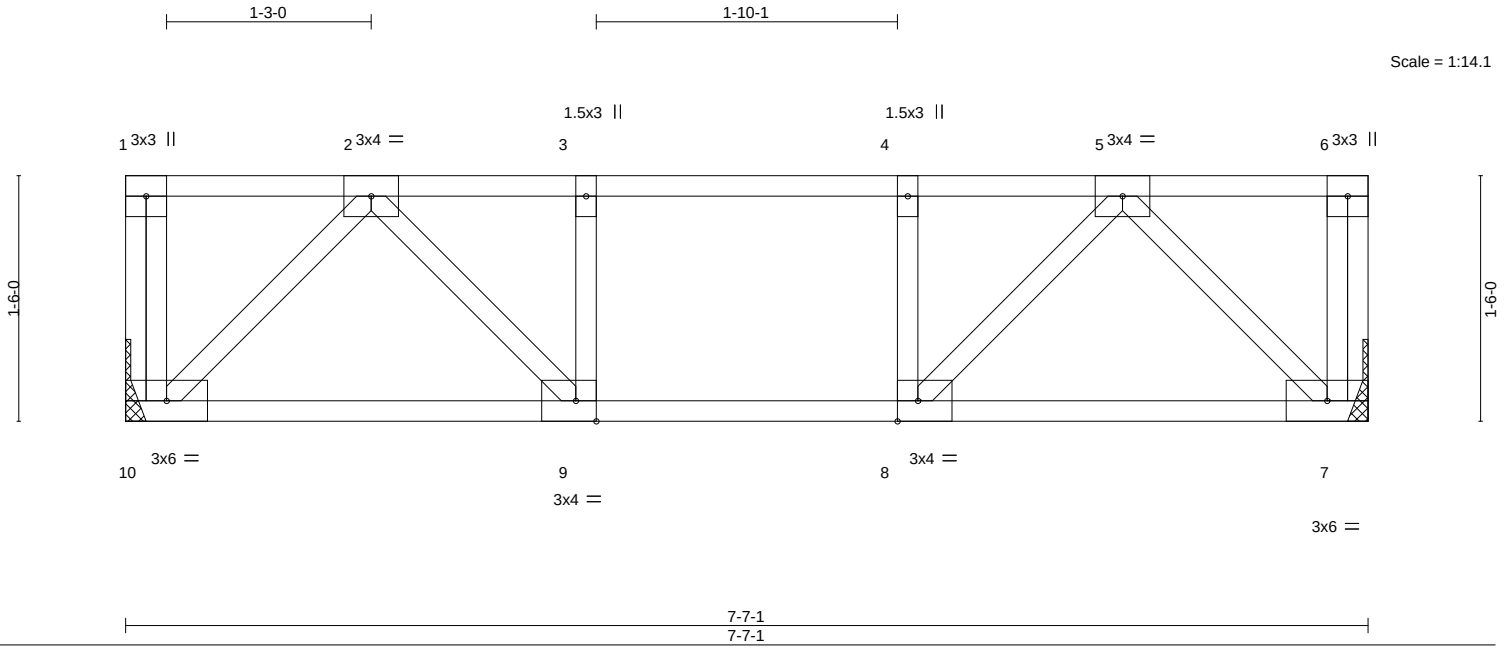

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=917(LC 1), 7=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1181/0, 3-4=-1181/0, 4-5=-1181/0
BOT CHORD 9-10=0/767, 8-9=0/1181, 7-8=0/767
WEBS 2-10=-1084/0, 2-9=0/693, 3-9=-424/0, 5-7=-1084/0, 5-8=0/693, 4-8=-424/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	FGR	FLOOR GIRDER	11	1	I50026138
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:12 2022 Page 1
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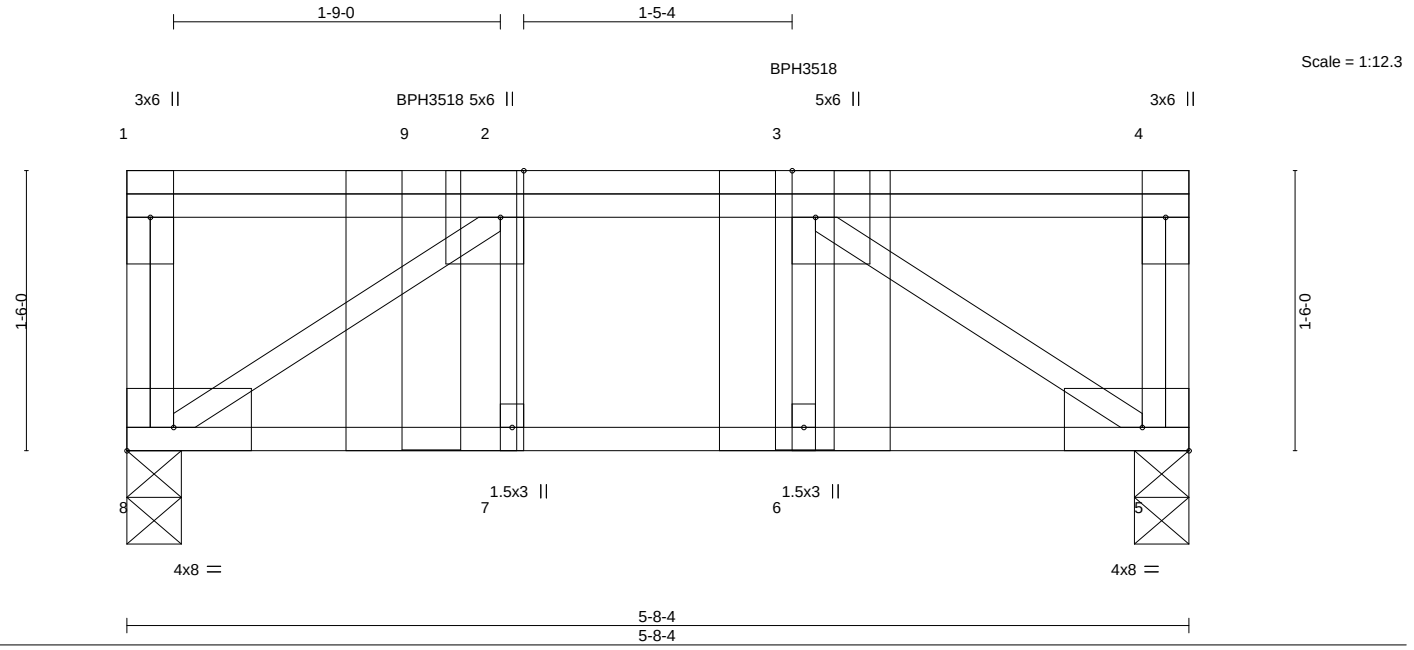

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2063(LC 1), 5=1942(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-537/0, 4-5=-419/0, 2-3=-2282/0
BOT CHORD 7-8=0/2282, 6-7=0/2282, 5-6=0/2282
WEBS 3-5=-2757/0, 2-8=-2757/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 1-7-9 from the left end to connect truss(es) to back face of top chord.
6) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent at 3-7-9 from the left end to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 3=-765(B) 9=-765(B)

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW1	Floor Supported Gable	3	1	I50026139
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:12 2022 Page 1
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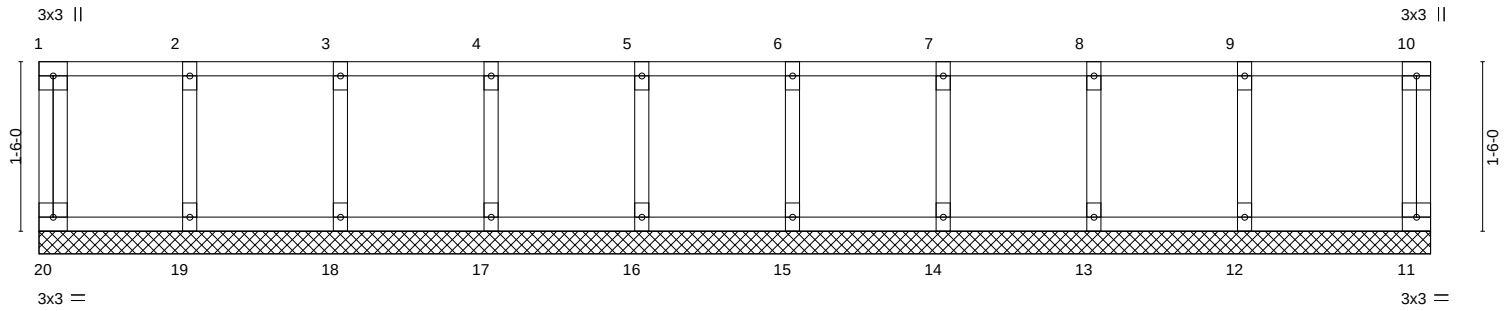

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1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-3-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW2	Floor Supported Gable	2	1	I50026140
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:27 2022 Page 1
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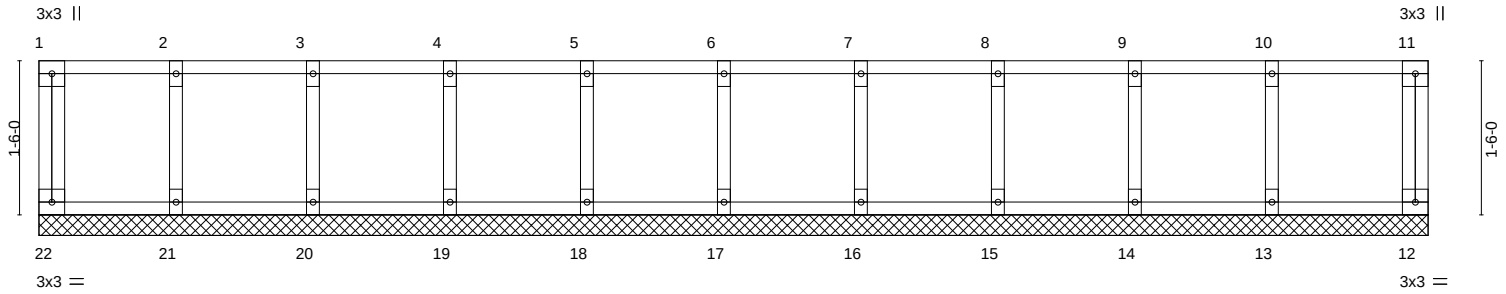

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1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW3	Floor Supported Gable	1	1	I50026141
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:29 2022 Page 1
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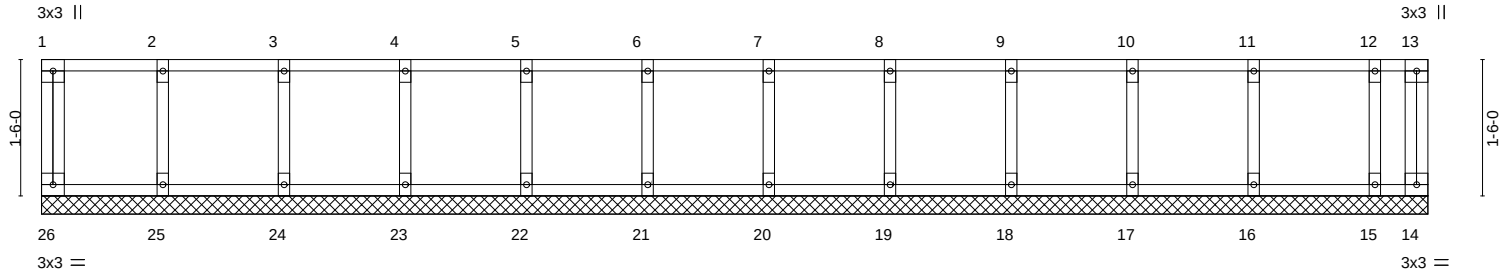

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1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW4	Floor Supported Gable	1	1	I50026142
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:29 2022 Page 1
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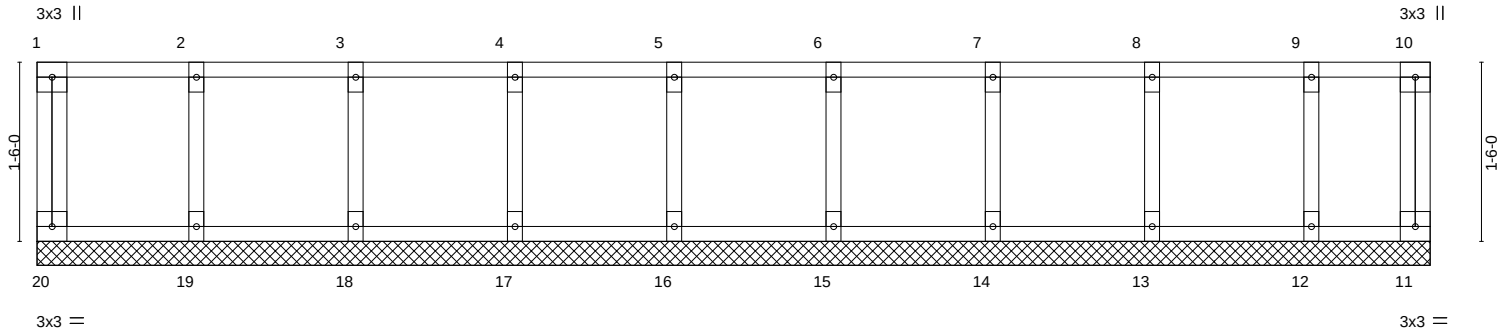

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-7-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-7-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW5	Floor Supported Gable	1	1	I50026143
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:30 2022 Page 1
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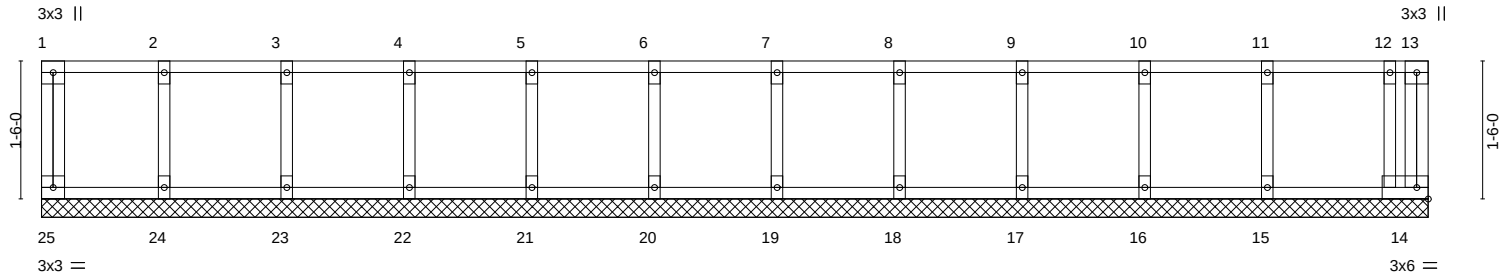

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-0

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW6	Floor Supported Gable	1	1	I50026144
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:31 2022 Page 1
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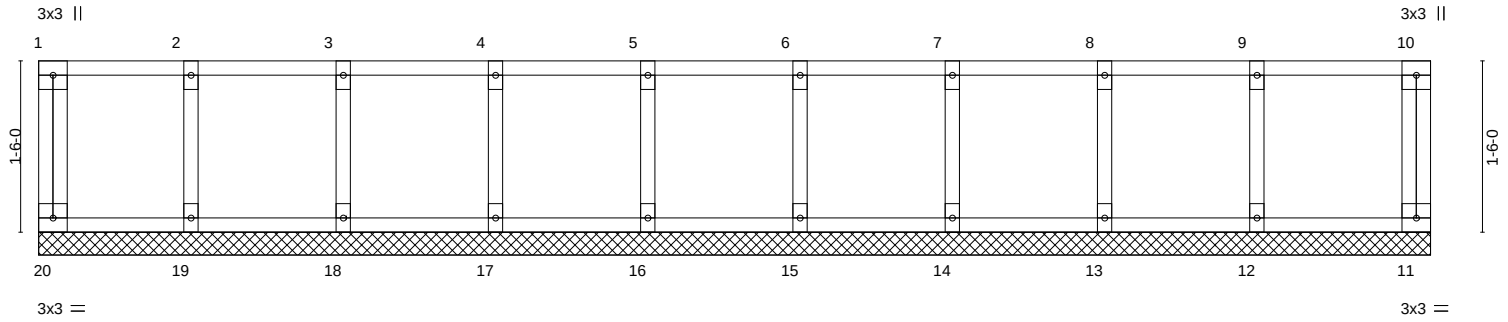

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW7	Floor Supported Gable	2	1	I50026145
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:33 2022 Page 1
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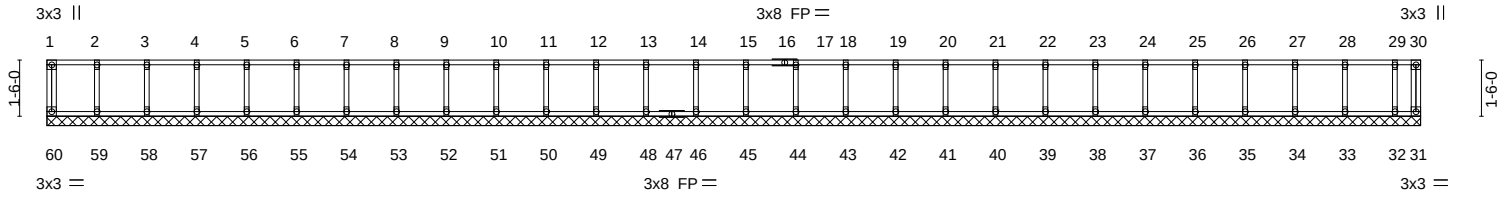

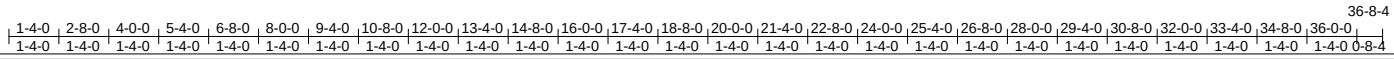

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW8	Floor Supported Gable	1	1	I50026146
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:35 2022 Page 1
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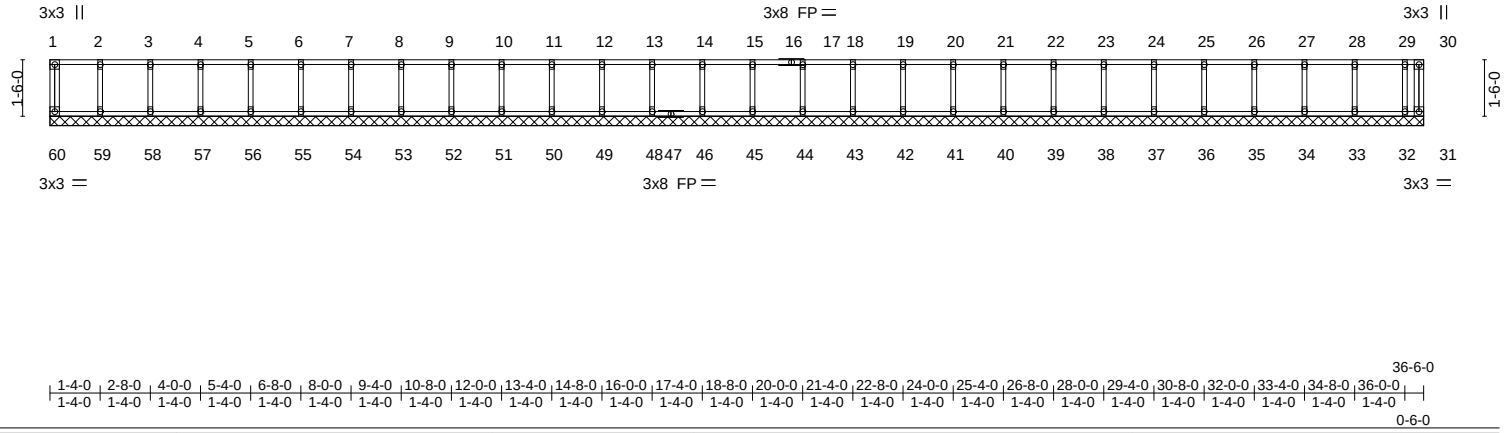

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW9	GABLE	1	1	I50026147
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:37 2022 Page 1
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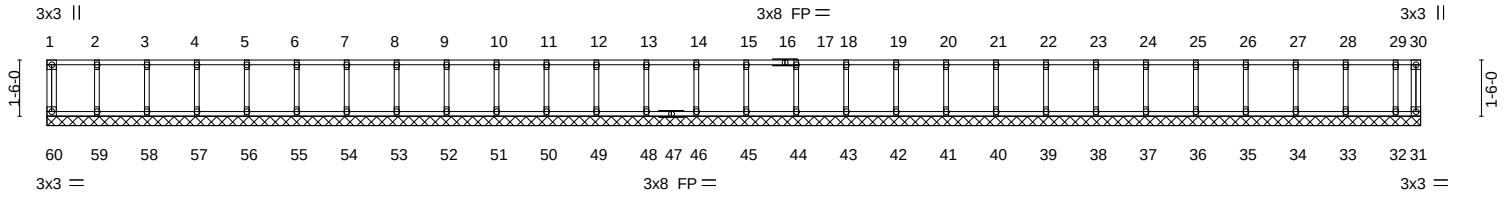

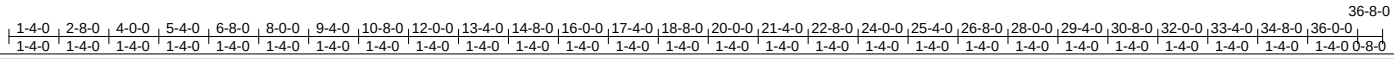

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW10	Floor Supported Gable	2	1	I50026148
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:13 2022 Page 1
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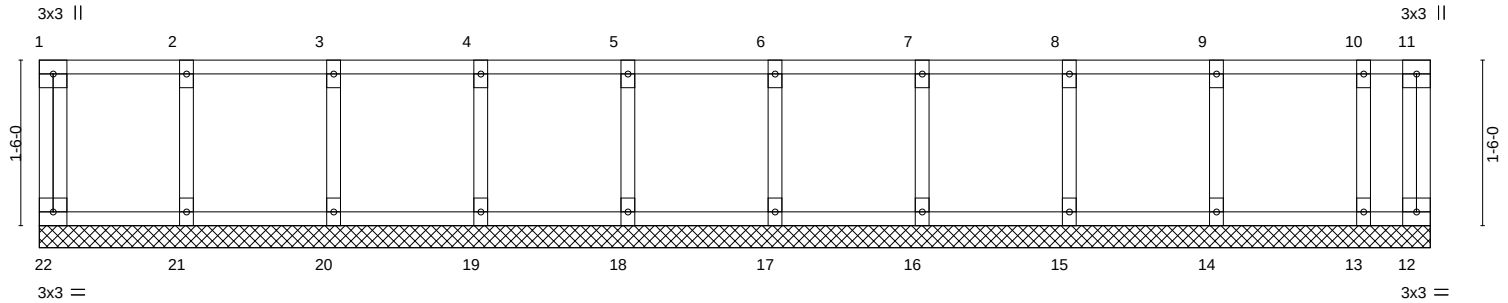

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW11	Floor Supported Gable	1	1	I50026149
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:14 2022 Page 1
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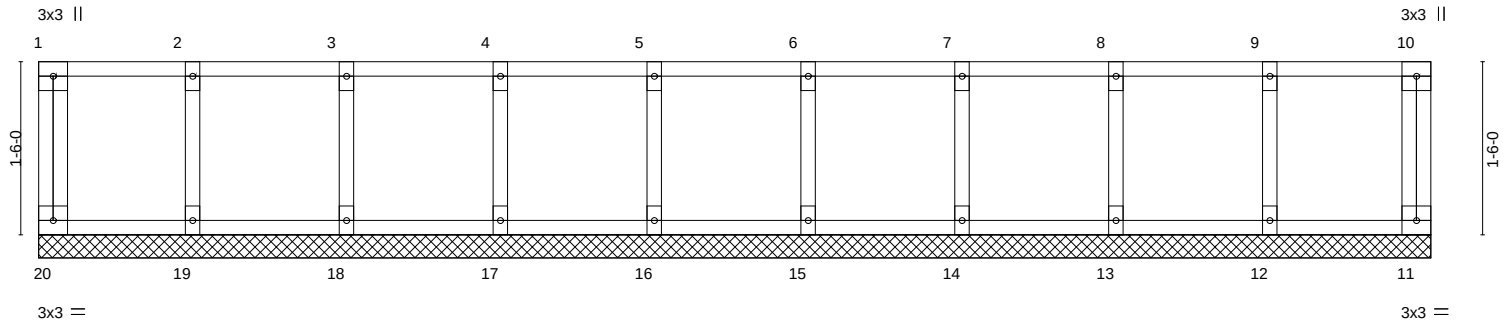

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW12	Floor Supported Gable	1	1	I50026150
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:15 2022 Page 1
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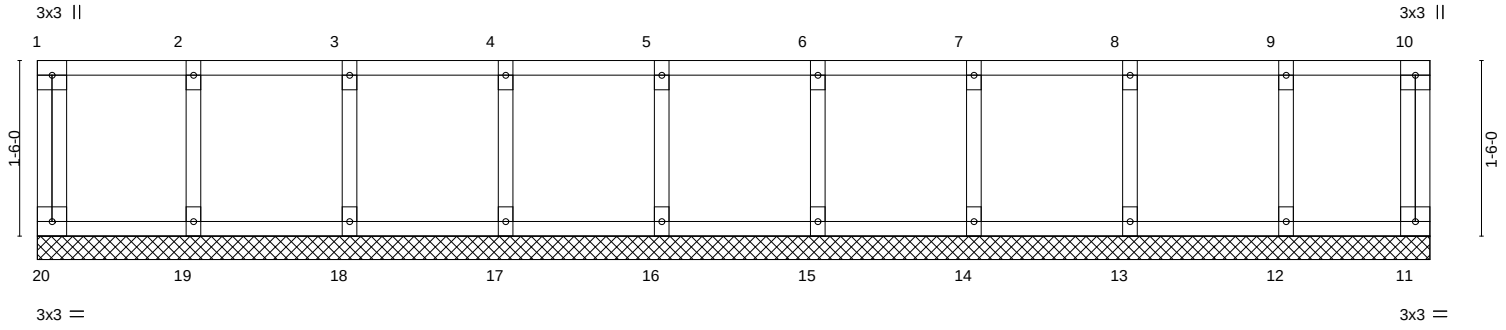

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL) I50026151
PRYOR-F1C	KW13	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:17 2022 Page 1
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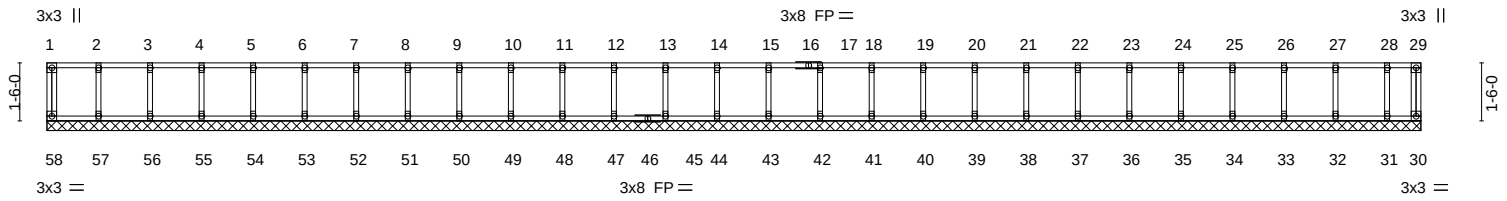

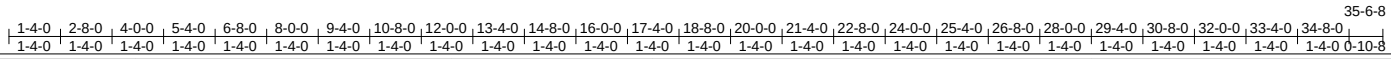

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 161 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-6-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW14	GABLE	1	1	I50026152
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:19 2022 Page 1
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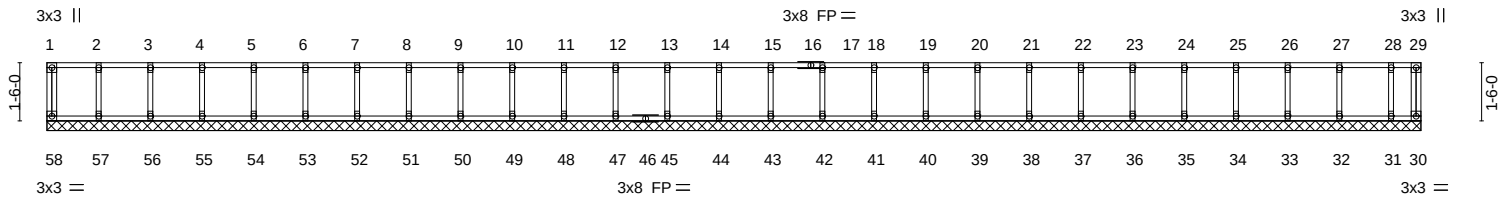

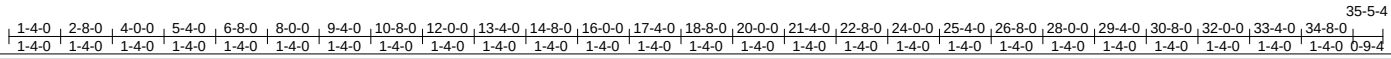

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 161 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-5-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW15	GABLE	1	1	I50026153
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:23 2022 Page 1
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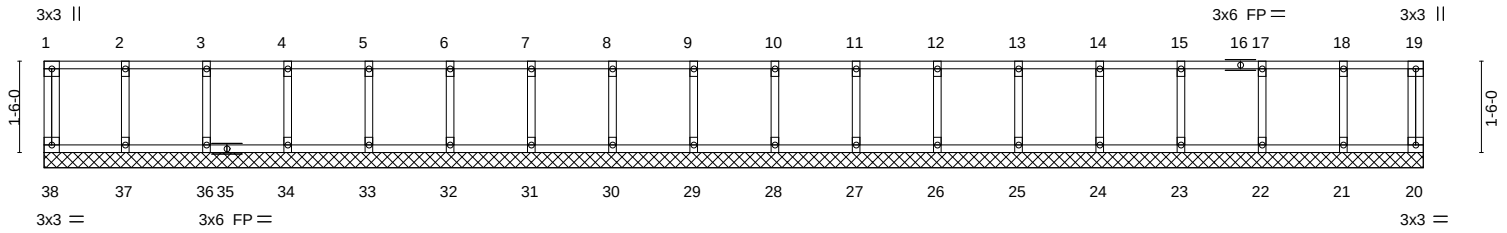

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-7-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-7-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW16	GABLE	1	1	I50026154
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:24 2022 Page 1
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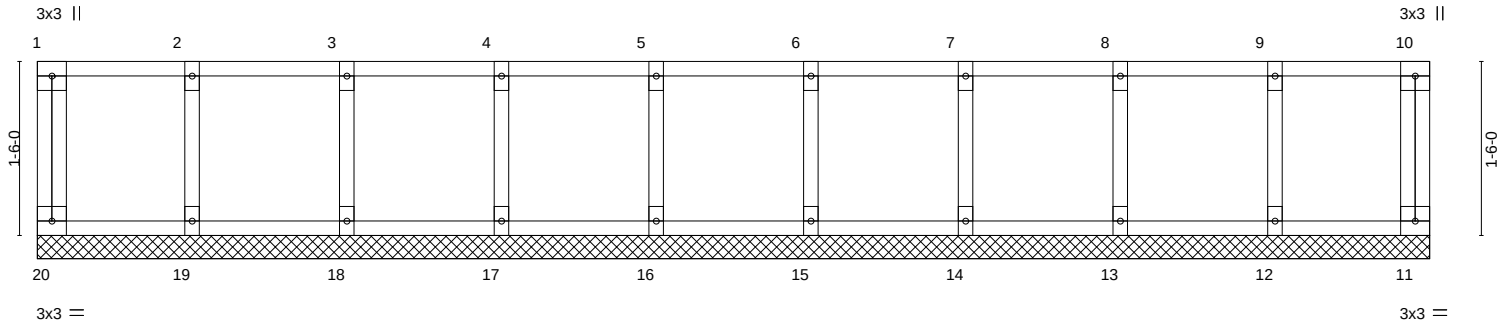

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW17	GABLE	1	1	I50026155
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-M7DEsO0xcXVqGXbs7i4UjF1u8pj3h37KwWedmXzpDpi

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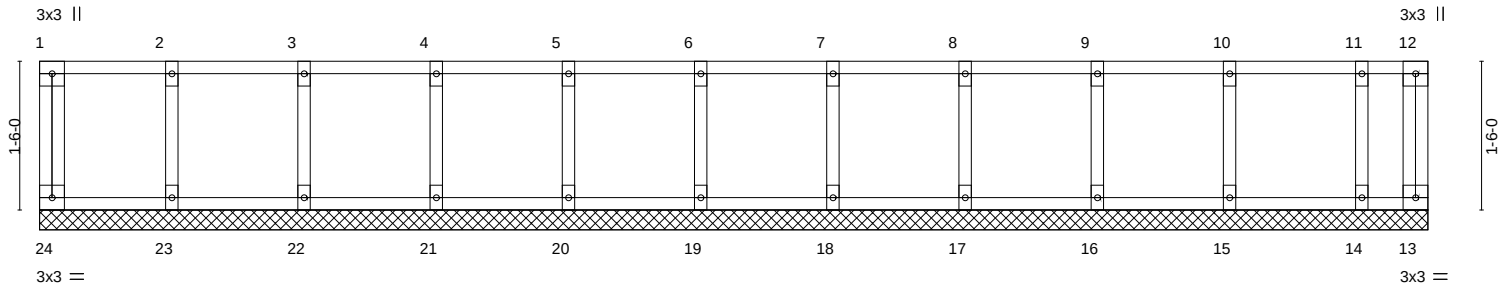

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW18	Floor Supported Gable	1	1	I50026156
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-M7DEsO0xcXVqGXbs7i4UjF1uApj8h37KwWedmXzpDpi

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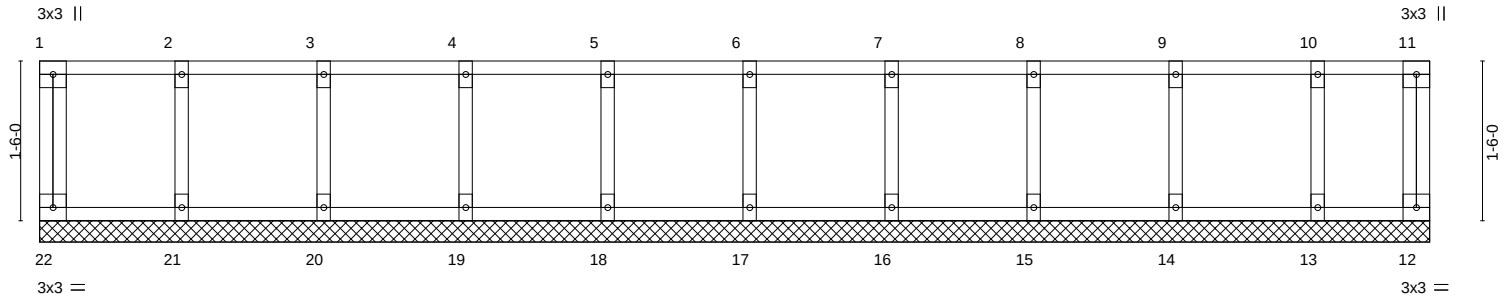

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-0-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-0-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW19	GABLE	1	1	I50026157
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:26 2022 Page 1
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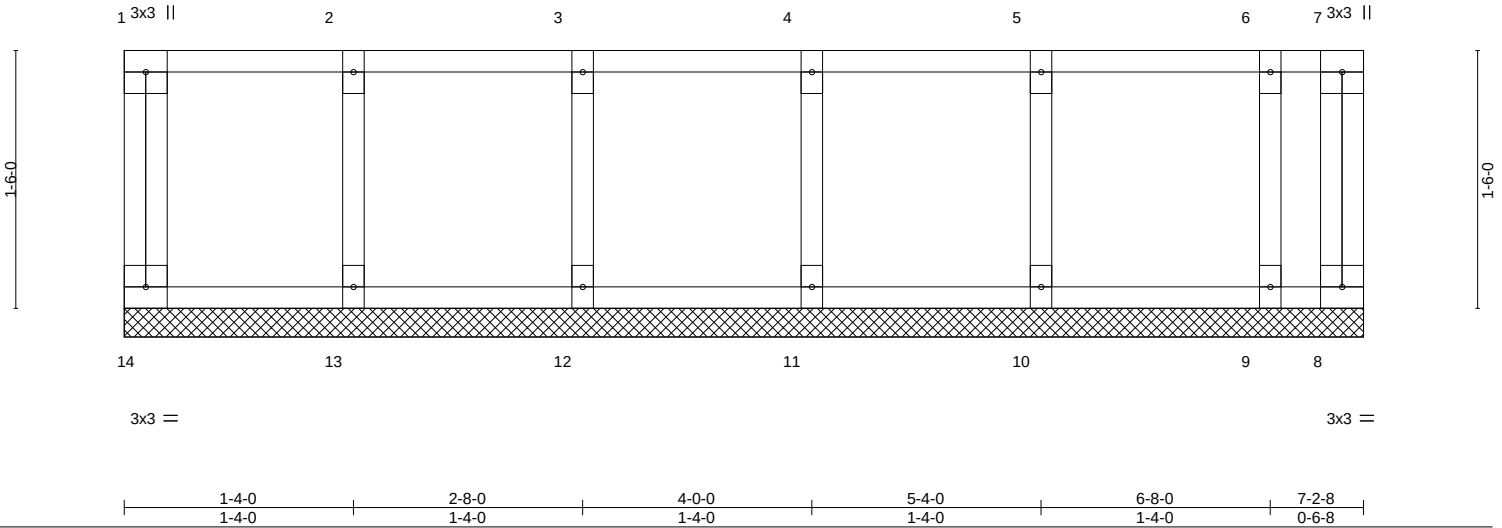

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area C/D Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 2ND LEVEL)
PRYOR-F1C	KW20	Floor Supported Gable	1	1	I50026158
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Feb 2 08:58:28 2022 Page 1
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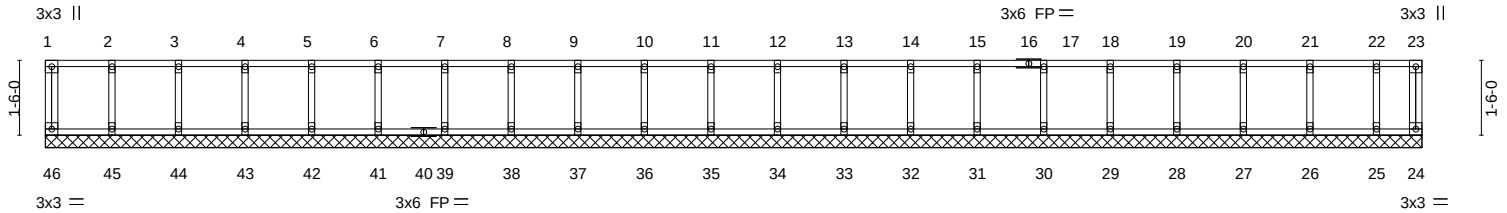

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	27-6-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 127 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-6-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 3,2022

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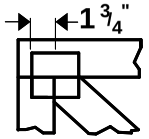
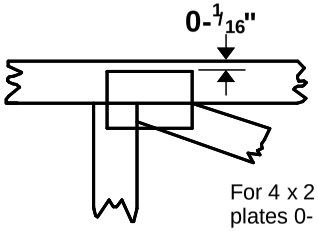
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

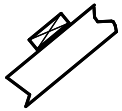
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

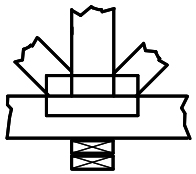
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

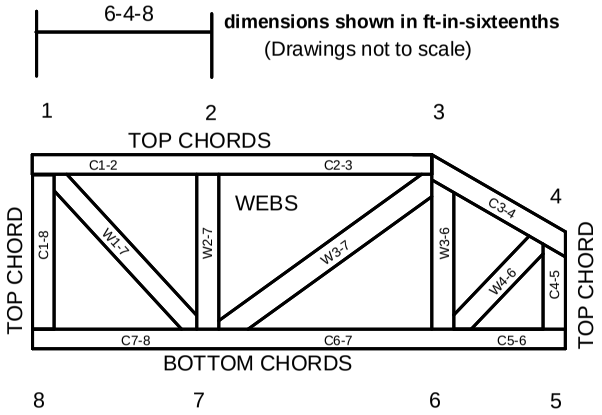


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area C/D Level 2

Building 1 Area A Level 3

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: February 19, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
3rd floor f4a Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

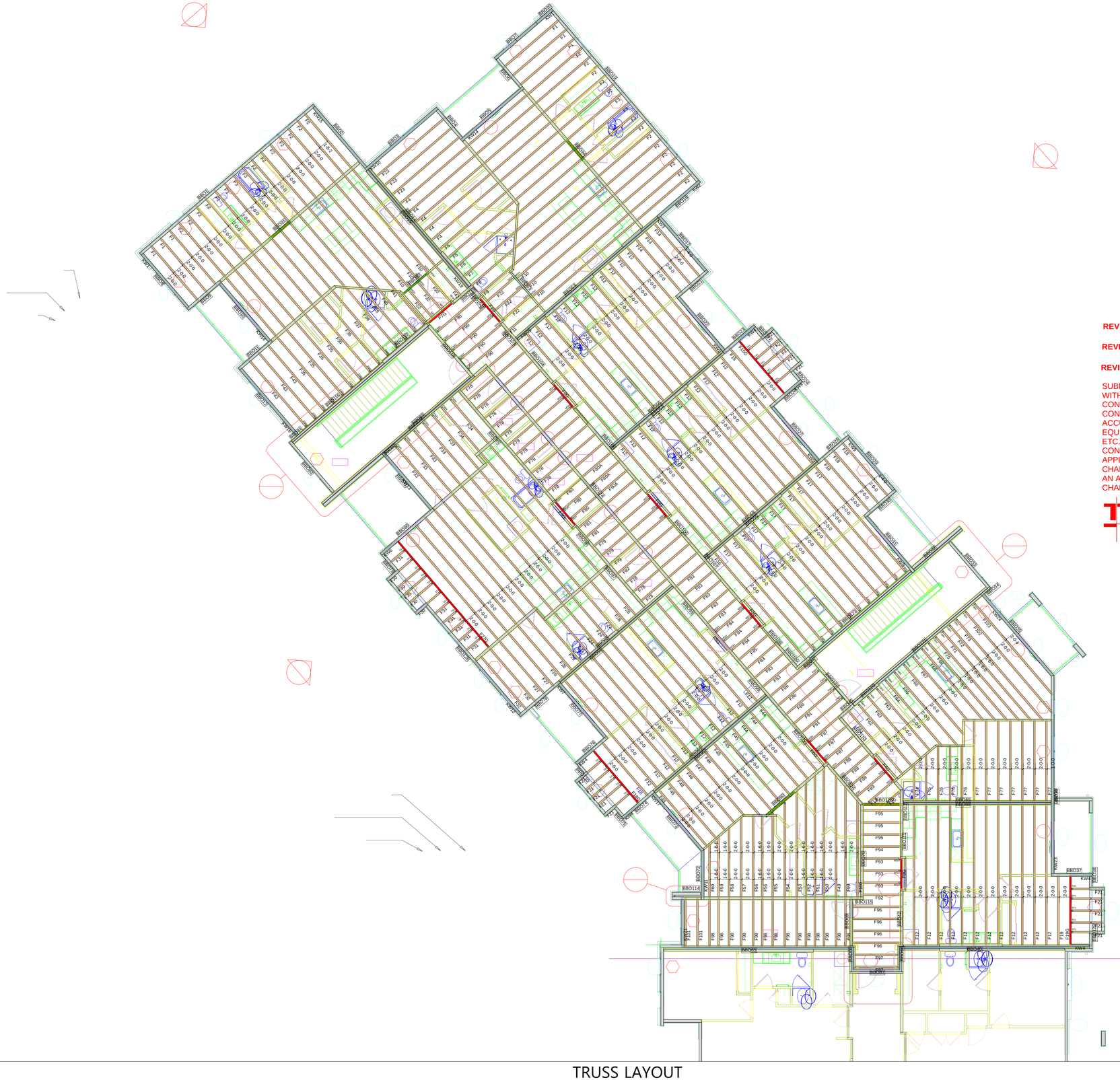
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F4C



TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/24/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 02/19/2022 BY: MJF

MCCAMBRIDGE BROS
The Signature at West Pryor
Building #1 Area A
2nd Level

Telephone:
Contact:
Fax:
Sales:
Date:
Drawn By:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

Building 1 Area A Level 3

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 02/19/2022 *BY:* MJF

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F4a
WEST PRYOR (BLDG 1 3RD LEVEL AREA A)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I50173811 thru I50173949

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/24/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRI ARCHITECTS

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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

February 11,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F1	Floor	6	1	I50173811
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:47 2022 Page 1
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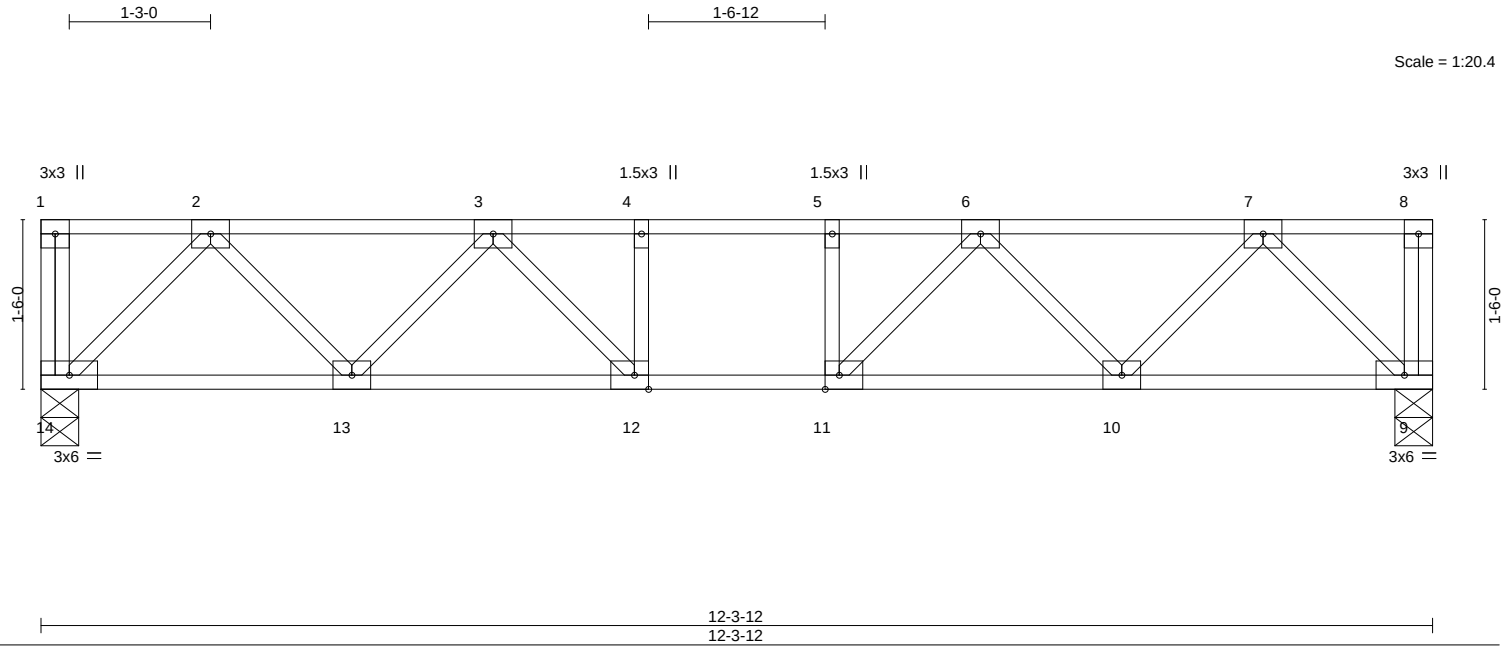

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F1G	FLOOR GIRDER	1	1	I50173812
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-8WKtOSZzcArpan9tv02_sFE3NrLBJdsq?JVwo?zmZ6L

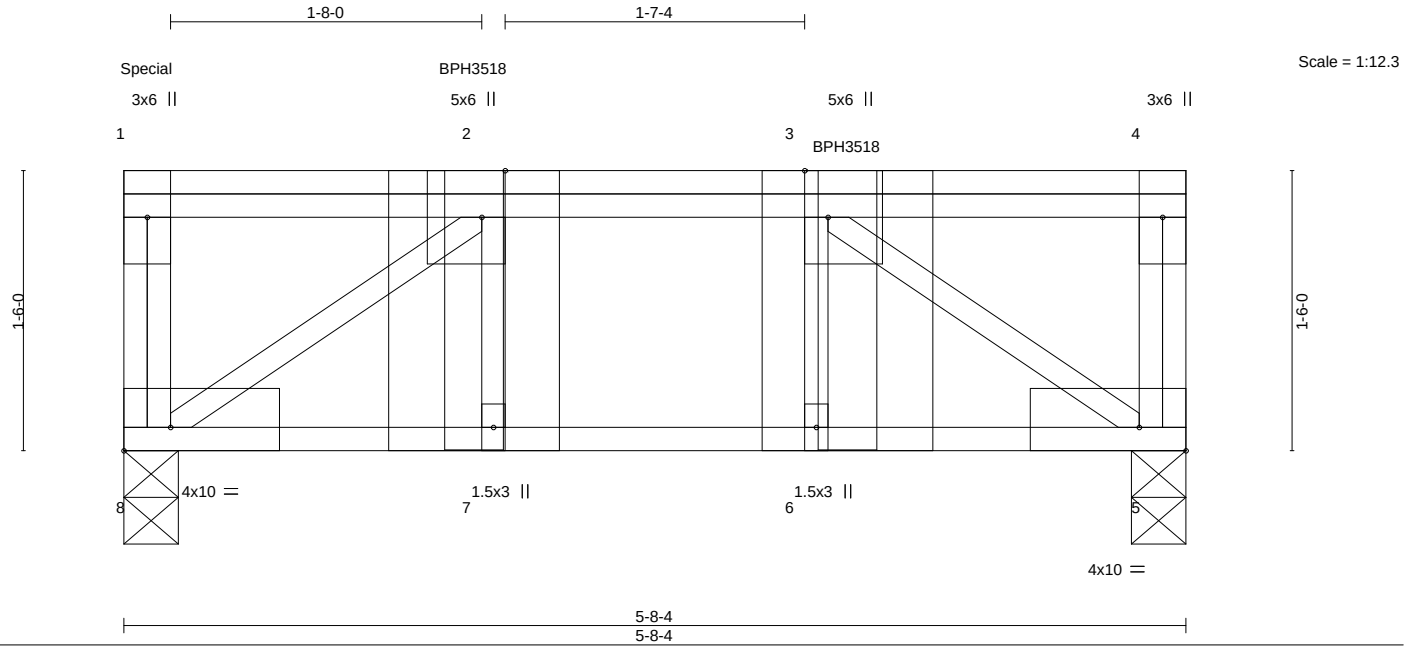

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=3228(LC 1), 5=2195(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1402/0, 4-5=-370/0, 2-3=-2569/0
BOT CHORD 7-8=0/2569, 6-7=0/2569, 5-6=0/2569
WEBS 2-8=-3147/0, 3-5=-3147/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-8 from the left end to 3-10-8 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1063 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 1=-1033(B) 2=-958(B) 3=-958(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 1=-1033(B) 2=-958(B) 3=-958(B)

February 11,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
					I50173812
PRYOR-F4A	F1G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445, 3-4=-365
   Concentrated Loads (lb)
   Vert: 1=-1033(B) 2=-958(B) 3=-1005(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365, 2-4=-445
   Concentrated Loads (lb)
   Vert: 1=-1063(B) 2=-1002(B) 3=-958(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445, 3-4=-365
   Concentrated Loads (lb)
   Vert: 1=-1033(B) 2=-958(B) 3=-1005(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365, 2-4=-445
   Concentrated Loads (lb)
   Vert: 1=-1063(B) 2=-1002(B) 3=-958(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F2	Floor	24	1	I50173813
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:09 2022 Page 1
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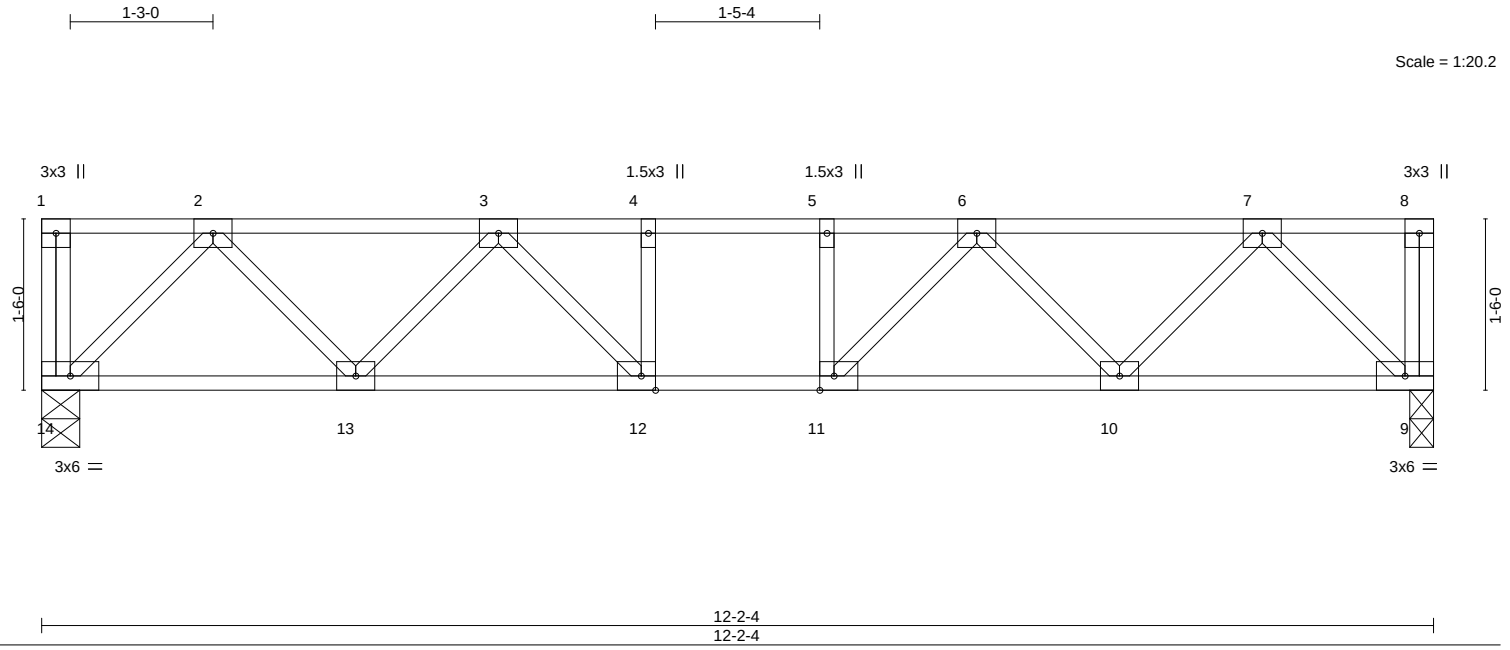

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1507, 11-12=0/1664, 10-11=0/1507, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-565/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-565/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F2G	FLOOR GIRDER	2	1	I50173814
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:28 2022 Page 1
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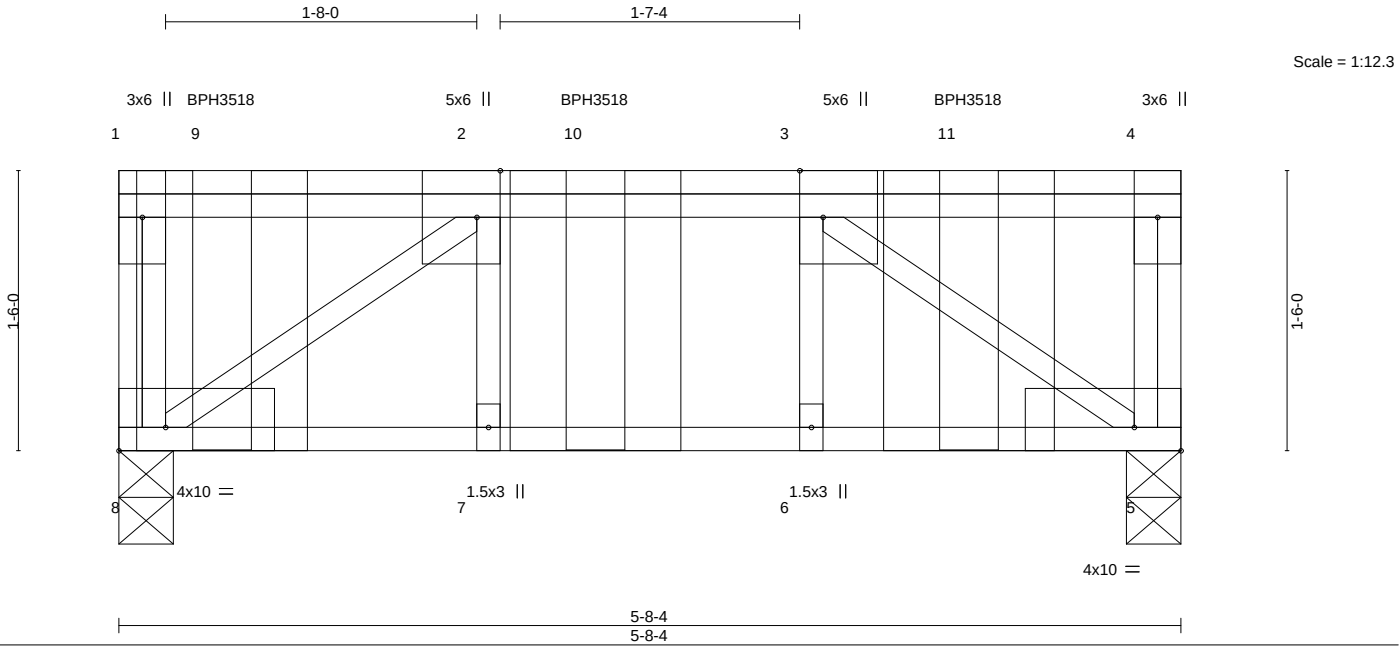

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.03	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2540(LC 1), 5=2265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-891/0, 4-5=-617/0, 2-3=-2319/0
BOT CHORD 7-8=0/2319, 6-7=0/2319, 5-6=0/2319
WEBS 2-8=-2842/0, 3-5=-2842/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-10 from the left end to 4-6-10 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-765(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-765(B)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

February 11,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F2G	FLOOR GIRDER	2	1	I50173814 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-839(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-857(B) 10=-782(B) 11=-765(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-800(B) 10=-765(B) 11=-839(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-857(B) 10=-782(B) 11=-765(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

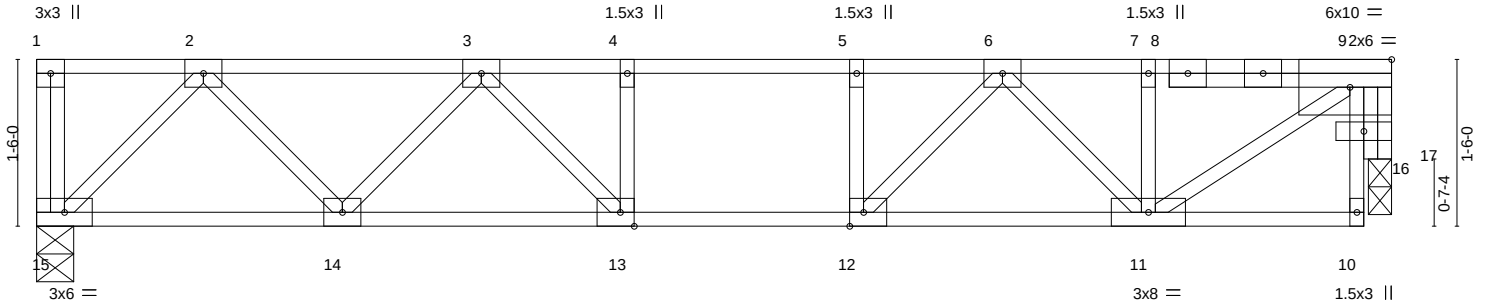
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F3	Floor	6	1	I50173815
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:29 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1Y5poeq8gdVqb0GvdwwvChcbTJYxkA_wq44X1HzmZ60

1-3-0 | 1-11-4 | 1-9-0

Scale = 1:20.7



12-2-4
12-2-4

Plate Offsets (X,Y)-- [9:0-4-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
9-11: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=775(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1126/0, 3-4=-1646/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-967/0, 7-9=-970/0
BOT CHORD 14-15=0/719, 13-14=0/1500, 12-13=0/1646, 11-12=0/1358
WEBS 2-15=-1017/0, 2-14=0/605, 3-14=-556/0, 3-13=0/394, 6-11=-567/0, 6-12=0/537, 5-12=-302/0, 9-11=0/1071, 9-17=-774/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F3G	FLOOR GIRDER	1	1	I50173816
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zCk?n822BTu8NxDZFQmMUhunUz0mhk5jCXB2BhzmZ5j

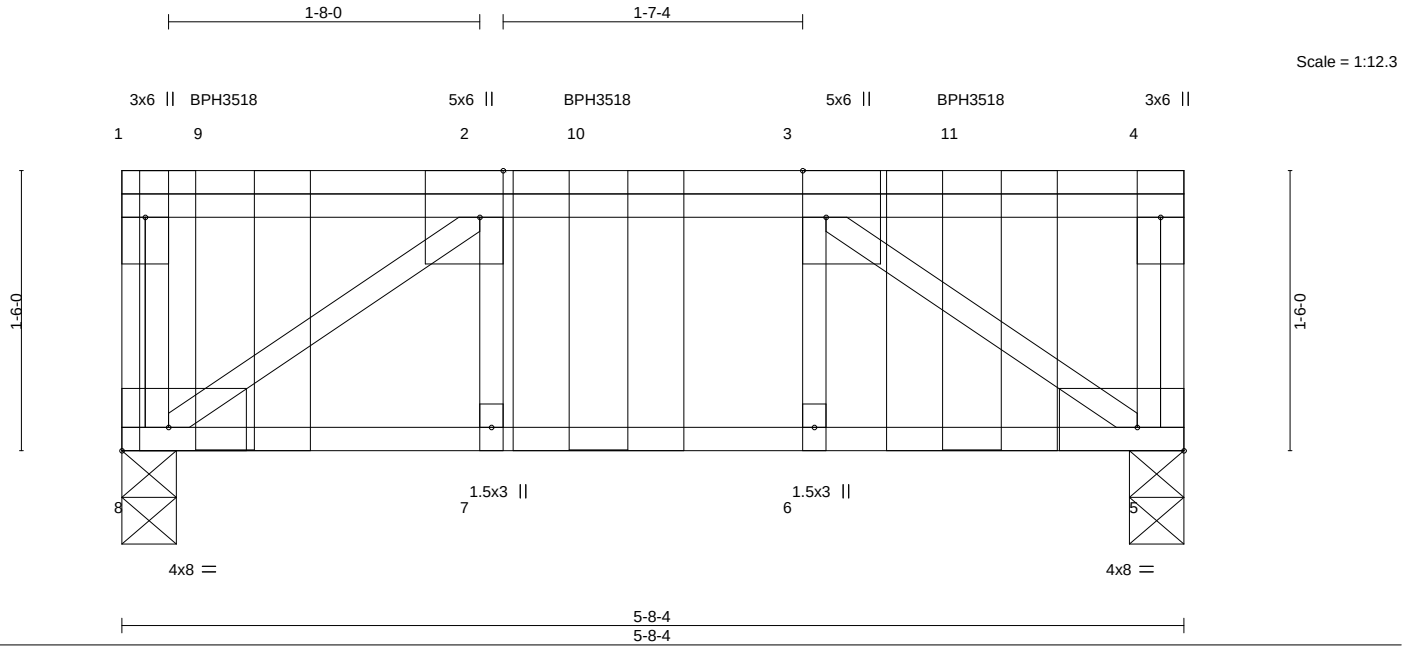

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.03	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2302(LC 1), 5=2073(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-796/0, 4-5=-567/0, 2-3=-2119/0
BOT CHORD 7-8=0/2119, 6-7=0/2119, 5-6=0/2119
WEBS 2-8=-2596/0, 3-5=-2596/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-10 from the left end to 4-6-10 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-622(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-622(B)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

February 11,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F3G	FLOOR GIRDER	1	1	I50173816 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-696(B)

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-714(B) 10=-639(B) 11=-622(B)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445, 3-4=-365
Concentrated Loads (lb)
Vert: 9=-657(B) 10=-622(B) 11=-696(B)

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365, 2-4=-445
Concentrated Loads (lb)
Vert: 9=-714(B) 10=-639(B) 11=-622(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F4	Floor	5	1	I50173817
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:50 2022 Page 1
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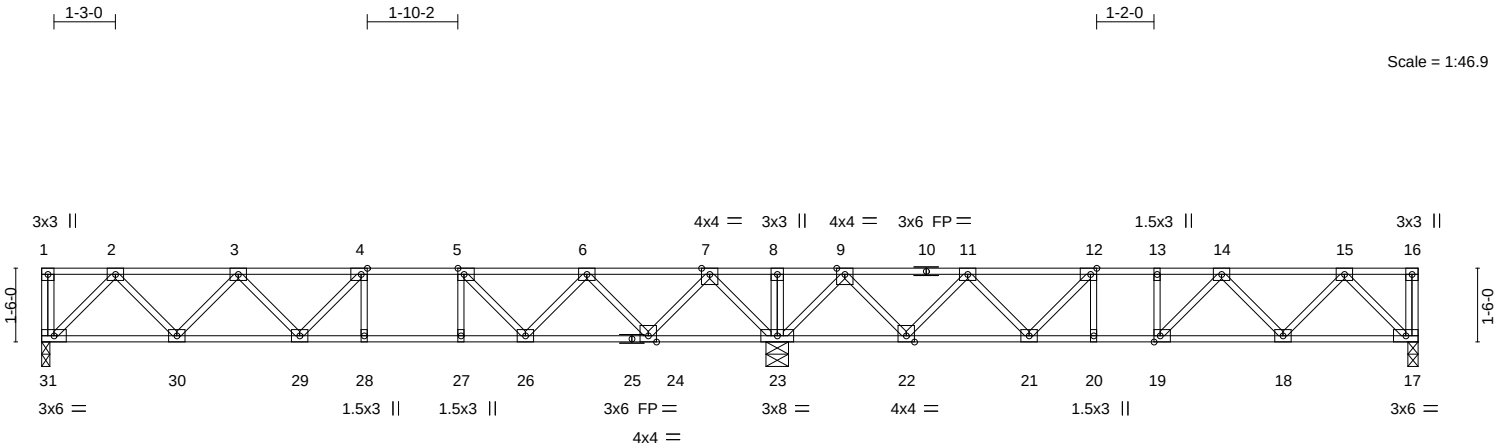

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>957	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=855(LC 3), 17=724(LC 4), 23=2131(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1284/0, 3-4=-1914/0, 4-5=-1999/0, 5-6=-1554/0, 6-7=-519/317, 7-8=0/1691, 8-9=0/1691, 9-11=-387/455, 11-12=-1204/0, 12-13=-1457/0, 13-14=-1457/0, 14-15=-1028/0
BOT CHORD 30-31=0/790, 29-30=0/1757, 28-29=0/1999, 27-28=0/1999, 26-27=0/1999, 24-26=-26/1171, 23-24=-757/0, 22-23=-754/0, 21-22=-180/942, 20-21=0/1457, 19-20=0/1457, 18-19=0/1362, 17-18=0/667
WEBS 2-31=-1118/0, 2-30=0/733, 3-30=-704/0, 4-28=-255/0, 7-23=-1475/0, 7-24=0/1066, 6-24=-1022/0, 6-26=0/633, 5-26=-787/0, 5-27=0/285, 9-23=-1335/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 12-21=-554/0, 15-17=-944/0, 15-18=0/536, 14-18=-497/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F4G	FLOOR GIRDER	1	1	I50173818
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:04 2022 Page 1
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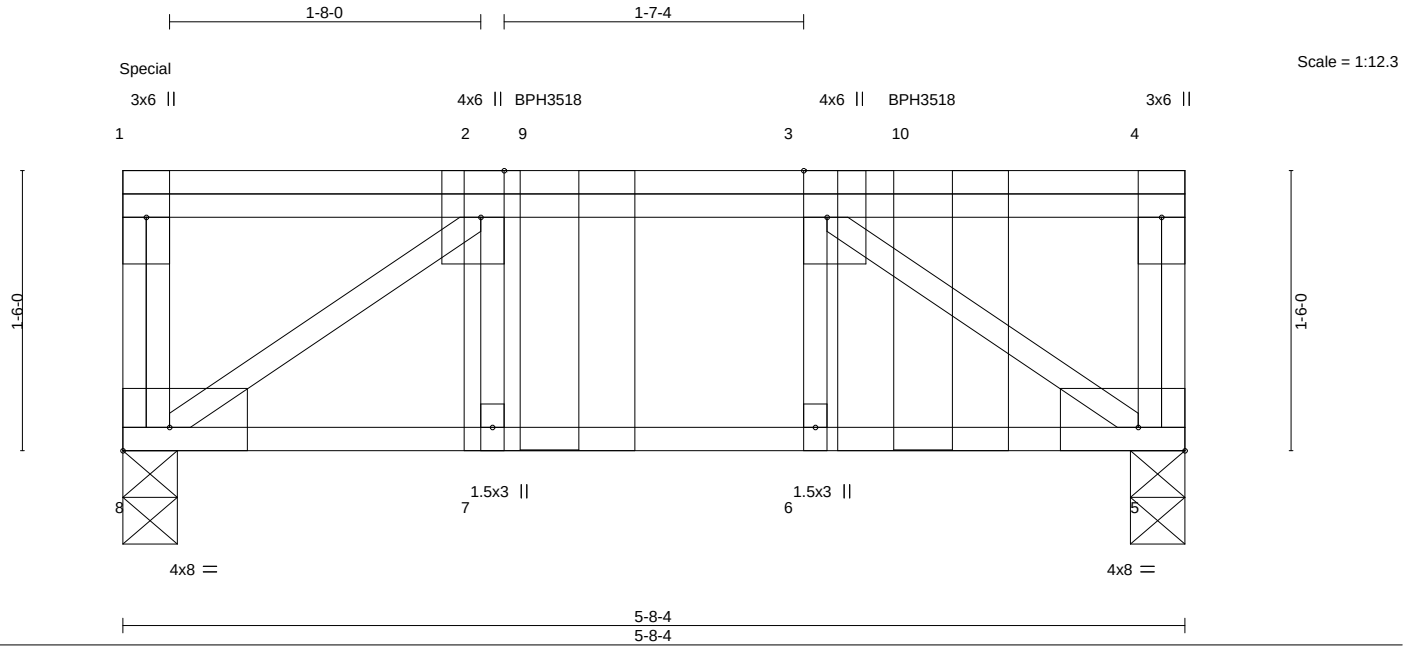

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Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.03	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.04	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2324(LC 1), 5=1960(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-882/0, 4-5=-510/0, 2-3=-2036/0
BOT CHORD 7-8=0/2036, 6-7=0/2036, 5-6=0/2036
WEBS 2-8=-2494/0, 3-5=-2494/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-7 from the left end to 4-3-7 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 613 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-566(B) 9=-622(B) 10=-622(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-566(B) 9=-622(B) 10=-622(B)

February 11,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F4G	FLOOR GIRDER	1	1	I50173818 Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-566(B) 9=-622(B) 10=-685(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-613(B) 9=-650(B) 10=-622(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-566(B) 9=-622(B) 10=-685(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 1=-613(B) 9=-650(B) 10=-622(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F5	Floor	2	1	I50173819
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SgqpZIGLy?9aXib0IC5bCUeueD6zvsxMLKY?qezmZ5R

1-3-0 1-10-2 1-8-0 1-9-0

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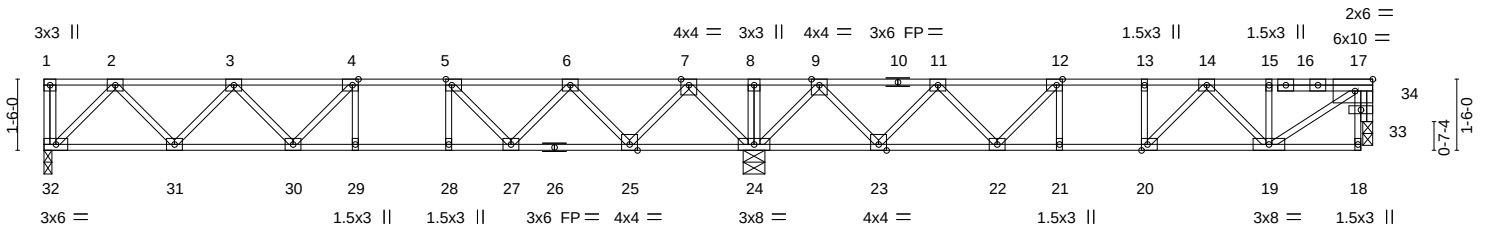

14-11-10 28-0-2
14-11-10 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	29-30	>954	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-2-0, 24=0-5-8, 34=0-2-8
Max Grav 32=862(LC 3), 24=2124(LC 1), 34=698(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1295/0, 3-4=-1937/0, 4-5=-2032/0, 5-6=-1597/0, 6-7=-574/339, 7-8=0/1655, 8-9=0/1655, 9-11=-363/403, 11-12=-1183/0, 12-13=-1433/0, 13-14=-1433/0, 14-15=-884/0, 15-17=-888/0
BOT CHORD	31-32=0/797, 30-31=0/1774, 29-30=0/2032, 28-29=0/2032, 27-28=0/2032, 25-27=-46/1221, 24-25=-724/0, 23-24=-769/0, 22-23=-136/921, 21-22=0/1433, 20-21=0/1433, 19-20=0/1228
WEBS	2-32=-1127/0, 2-31=0/741, 3-31=-711/0, 4-29=-258/0, 7-24=-1477/0, 7-25=0/1068, 6-25=-1024/0, 6-27=0/636, 5-27=-792/0, 5-28=0/287, 9-24=-1329/0, 9-23=0/936, 11-23=-902/0, 11-22=0/484, 12-22=-549/0, 17-19=0/977, 14-19=-497/0, 14-20=-52/297, 17-34=-718/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32, 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173820
PRYOR-F4A	F5G	FLOOR GIRDER	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:18 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5zYL4OQt7hgtzYWK?jIPi08z63G8jIp75CSdFxzmZ5F

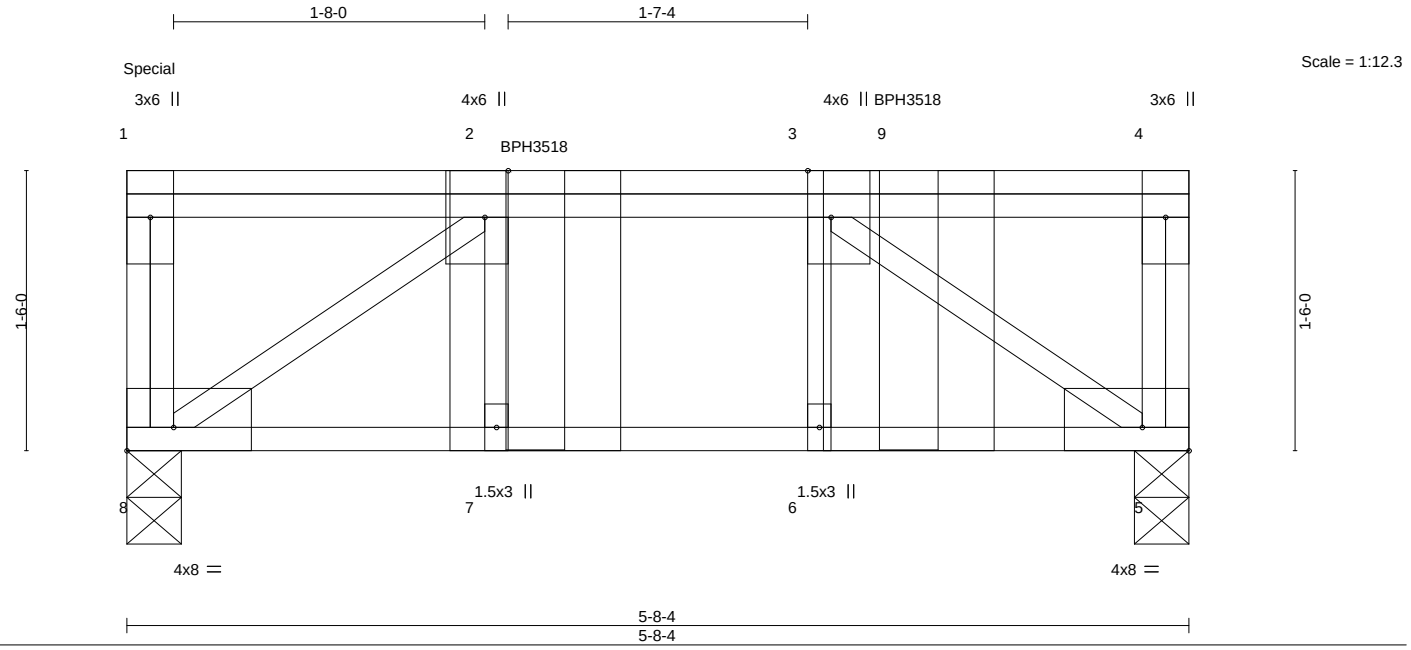

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.02	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2483(LC 1), 5=1914(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1046/0, 4-5=-477/0, 2-3=-2022/0
BOT CHORD 7-8=0/2022, 6-7=0/2022, 5-6=0/2022
WEBS 2-8=-2477/0, 3-5=-2477/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-4 from the left end to 4-2-4 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 721 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-678(F) 2=-622(F) 9=-622(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 1=-678(F) 2=-622(F) 9=-622(F)

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F5G	FLOOR GIRDER	1	1	I50173820 Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
      Vert: 1=-678(F) 2=-622(F) 9=-681(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
      Vert: 1=-721(F) 2=-654(F) 9=-622(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
      Vert: 1=-678(F) 2=-622(F) 9=-681(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
      Vert: 1=-721(F) 2=-654(F) 9=-622(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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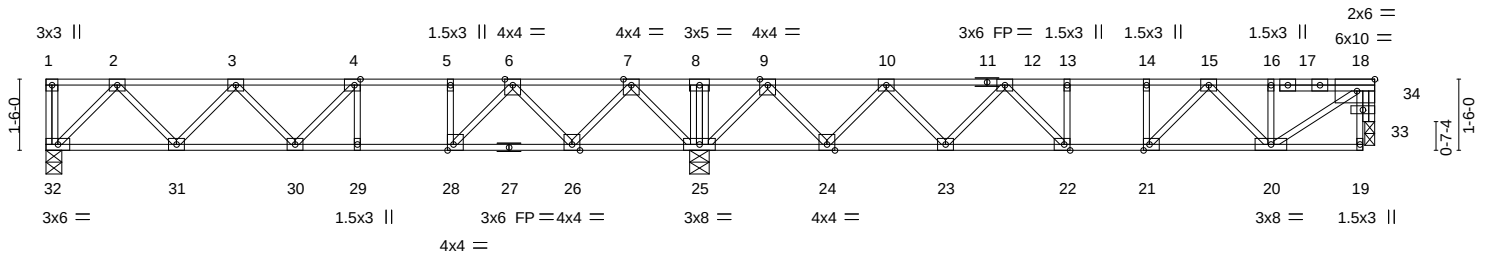
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F6	Floor	1	1	I50173821 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:19 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZA6jIkQVu_okbi4WZQqeEDg4yTc6SkfHKsBBnOzmZ5E

1-3-0 | 1-10-1 | 1-6-9 | 1-9-0

Scale = 1:48.6



13-9-5 | 28-0-2
13-9-5 | 14-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.12	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.19	29-30	>876	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-28,25-26,24-25.

REACTIONS. (size) 32=0-4-0, 25=0-4-15, 34=0-2-8
Max Grav 32=802(LC 3), 25=2102(LC 1), 34=777(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1181/0, 3-4=-1716/0, 4-5=-1698/0, 5-6=-1698/0, 6-7=-661/482, 7-8=0/1596, 8-9=0/1596, 9-10=-449/138, 10-12=-1406/0, 12-13=-1745/0, 13-14=-1745/0, 14-15=-1745/0, 15-16=-1000/0, 16-18=-1003/0
BOT CHORD	31-32=0/735, 30-31=0/1611, 29-30=0/1698, 28-29=0/1698, 26-28=-164/1246, 25-26=-779/103, 24-25=-564/0, 23-24=0/1071, 22-23=0/1700, 21-22=0/1745, 20-21=0/1418
WEBS	2-32=-1039/0, 2-31=0/663, 3-31=-640/0, 4-30=0/306, 4-29=-330/0, 7-25=-1376/0, 7-26=0/910, 6-26=-977/0, 6-28=0/883, 5-28=-370/0, 9-25=-1429/0, 9-24=0/1001, 10-24=-978/0, 10-23=0/547, 12-23=-499/0, 12-22=-7/350, 18-20=0/1109, 15-20=-606/0, 15-21=0/484, 14-21=-277/0, 18-34=-798/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173822
PRYOR-F4A	F6G	FLOOR GIRDER	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:33 2022 Page 1
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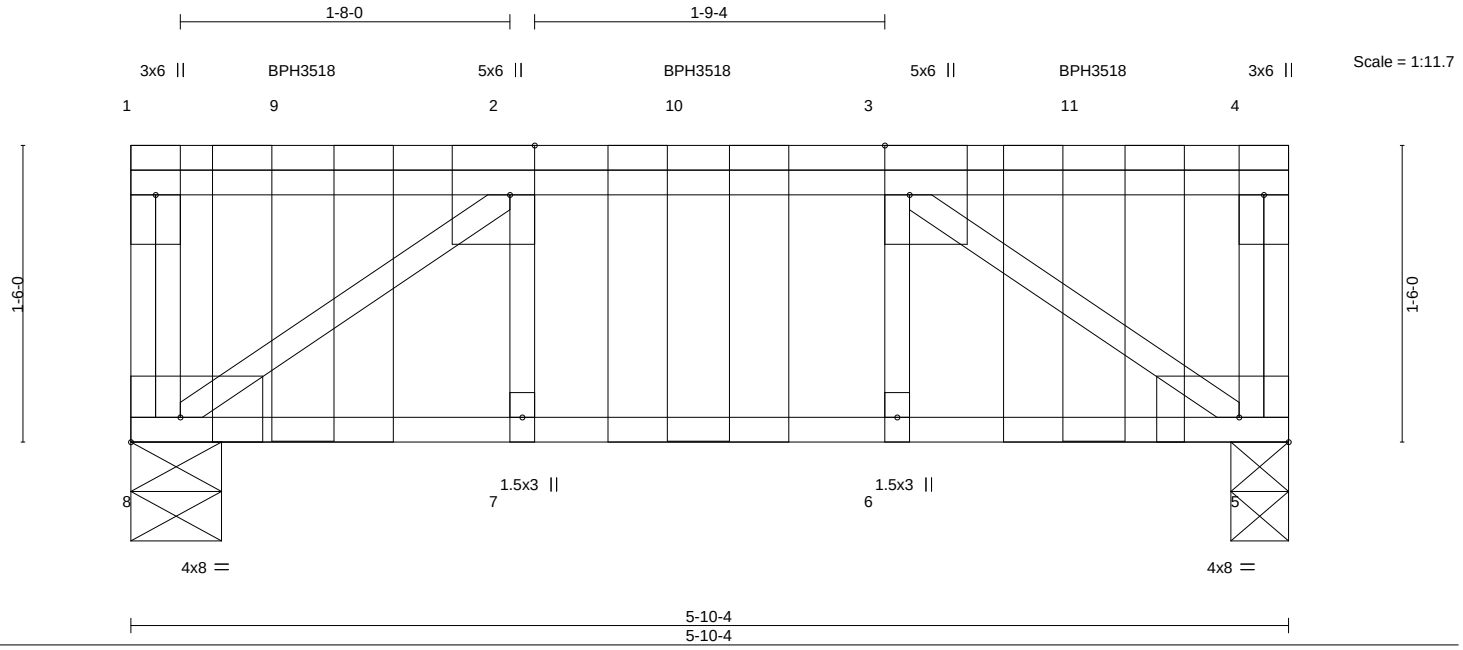

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=2306(LC 1), 5=2260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-668/0, 4-5=-623/0, 2-3=-2305/0
BOT CHORD 7-8=0/2305, 6-7=0/2305, 5-6=0/2305
WEBS 3-5=-2824/0, 2-8=-2824/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-7 from the left end to 4-10-7 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-672(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-672(F)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
					I50173822
PRYOR-F4A	F6G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-740(F)

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-747(F) 10=-664(F) 11=-672(F)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
Concentrated Loads (lb)
Vert: 9=-679(F) 10=-664(F) 11=-740(F)

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 9=-747(F) 10=-664(F) 11=-672(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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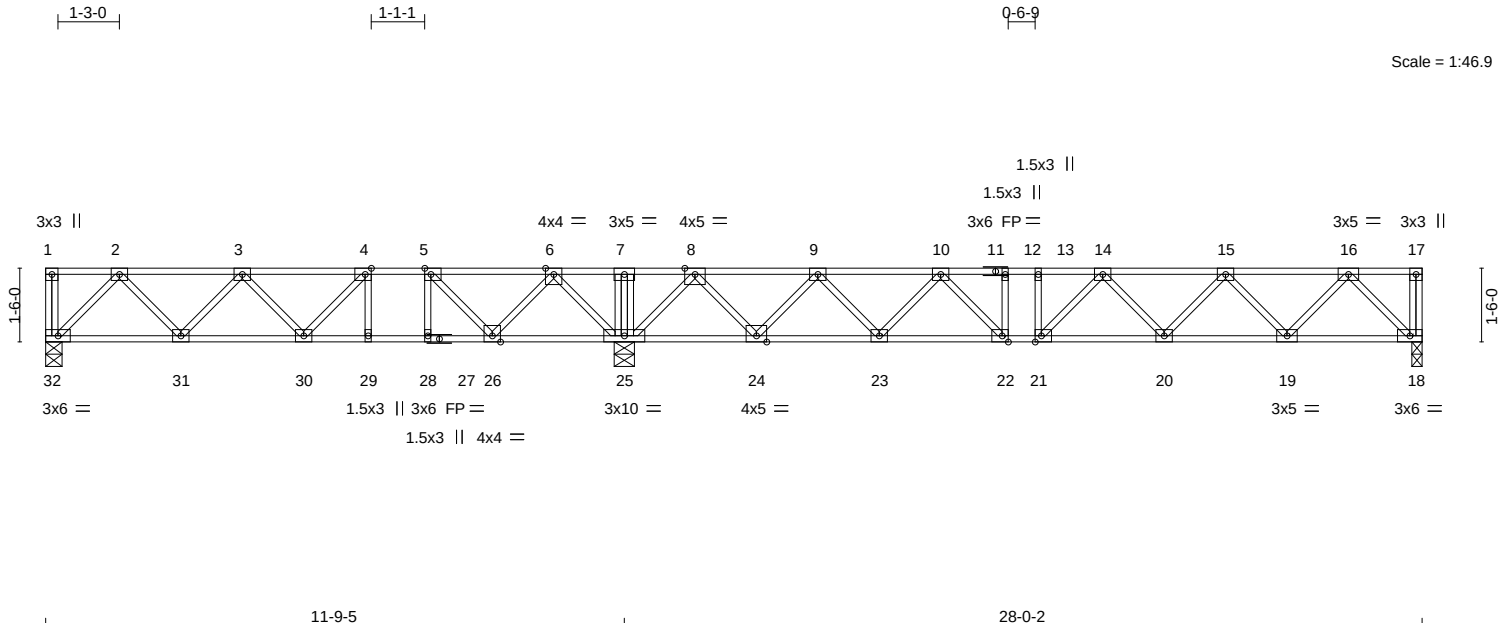
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F7	Floor	1	1	I50173823 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5F4mfCdX7vpTW9JbVo6OubLr_w1yCyGe?L31LSzmZ5_



11-9-5 / 11-9-5 — 28-0-2 / 16-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.11	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.17	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
18-27: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 18=0-2-8, 25=0-4-15
Max Grav 32=647(LC 3), 18=910(LC 4), 25=2178(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-888/0, 3-4=-1137/109, 4-5=-980/378, 5-6=-389/806, 6-7=0/1817, 7-8=0/1817, 8-9=-340/129, 9-10=-1557/0, 10-12=-2259/0, 12-13=-2259/0, 13-14=-2259/0, 14-15=-2126/0, 15-16=-1385/0
BOT CHORD 31-32=0/580, 30-31=0/1178, 29-30=-378/980, 28-29=-378/980, 26-28=-378/980, 25-26=-1148/0, 24-25=-651/0, 23-24=0/1095, 22-23=0/2004, 21-22=0/2259, 20-21=0/2321, 19-20=0/1898, 18-19=0/849
WEBS 2-32=-821/0, 2-31=-5/457, 3-31=-432/32, 3-30=-261/0, 4-30=0/521, 4-29=-410/0, 6-25=-1245/0, 6-26=0/890, 5-26=-1071/0, 5-28=0/425, 8-25=-1613/0, 8-24=0/1181, 9-24=-1150/0, 9-23=0/713, 10-23=-693/0, 10-22=0/544, 12-22=-262/0, 16-18=-1200/0, 16-19=0/797, 15-19=-763/0, 15-20=0/338, 14-20=-290/0, 14-21=-305/138

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F7G	FLOOR GIRDER	1	1	I50173824
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:52 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5WcCD0qC77y32m6s_svN4BYrjmwDhhV8wUhQRzzmZ4j

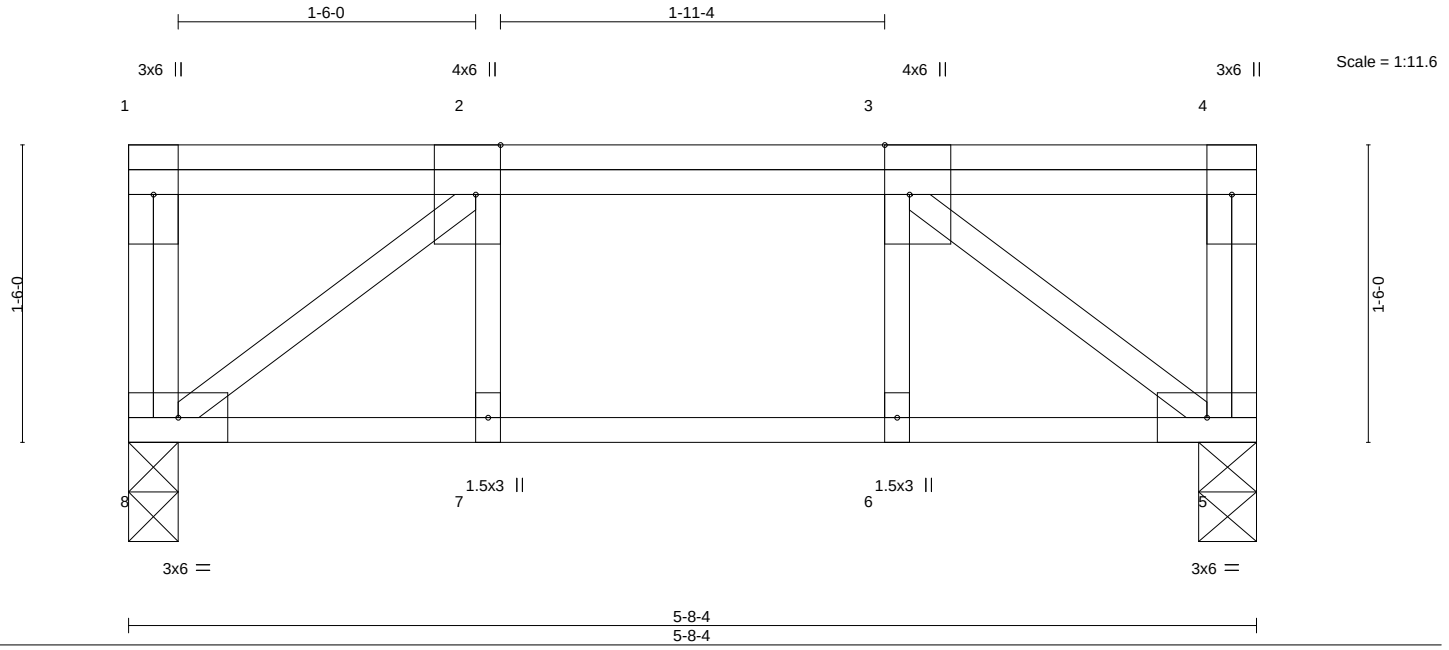

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.02	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 5=0-3-8
Max Grav 8=1237(LC 1), 5=1237(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-308/0, 4-5=-308/0, 2-3=-1197/0
BOT CHORD 7-8=0/1197, 6-7=0/1197, 5-6=0/1197
WEBS 3-5=-1517/0, 2-8=-1517/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F7G	FLOOR GIRDER	1	1	I50173824 Job Reference (optional)

LOAD CASE(S) Standard

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F8	Floor	1	1	I50173825
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-2vkyeisSflCmI4GE6Hyr9cd3xaUK9XwRNoAXVszmZ4h

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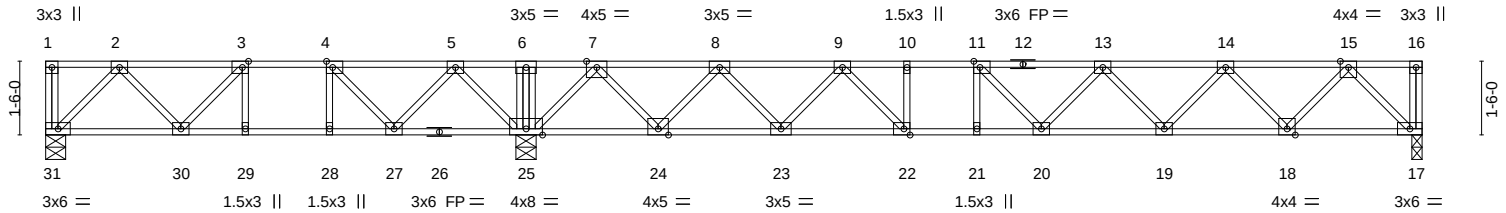

9-9-5 28-0-2
9-9-5 18-2-13

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.29	20-21	>751	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-14, 17=0-2-8, 25=0-4-15
Max Grav 31=519(LC 3), 17=1078(LC 7), 25=2148(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-631/62, 3-4=-721/281, 4-5=-303/689, 5-6=0/1693, 6-7=0/1693, 7-8=-822/0, 8-9=-2191/0, 9-10=-3149/0, 10-11=-3149/0, 11-13=-3193/0, 13-14=-2751/0, 14-15=-1704/0
BOT CHORD 30-31=0/477, 29-30=-281/721, 28-29=-281/721, 27-28=-281/721, 25-27=-1002/0, 24-25=-422/0, 23-24=0/1656, 22-23=0/2744, 21-22=0/3149, 20-21=0/3149, 19-20=0/3128, 18-19=0/2362, 17-18=0/1019
WEBS 2-31=-675/0, 3-30=-131/317, 3-29=-267/0, 5-25=-1070/0, 5-27=0/722, 4-27=-868/0, 4-28=0/295, 7-25=-1759/0, 7-24=0/1322, 8-24=-1280/0, 8-23=0/835, 9-23=-871/0, 9-22=0/784, 10-22=-297/0, 15-17=-1441/0, 15-18=0/1019, 14-18=-978/0, 14-19=0/578, 13-19=-561/0, 11-20=-194/314, 11-21=-320/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F8G	FLOOR GIRDER	1	1	I50173826
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:13 2022 Page 1
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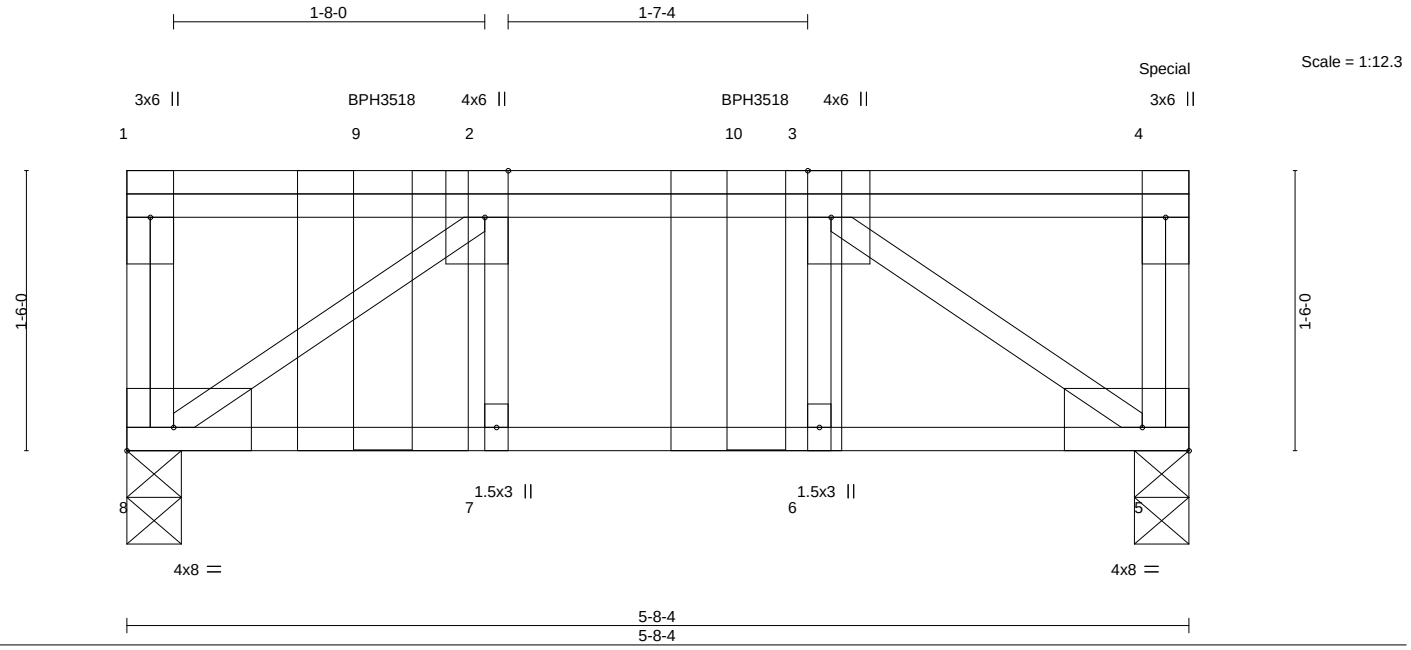

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2018(LC 1), 5=2500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-531/0, 4-5=-1022/0, 2-3=-2086/0
BOT CHORD 7-8=0/2086, 6-7=0/2086, 5-6=0/2086
WEBS 2-8=-2556/0, 3-5=-2556/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-7 from the left end to 3-4-7 to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 761 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-714(B) 9=-665(B) 10=-665(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-714(B) 9=-665(B) 10=-665(B)

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
					I50173826
PRYOR-F4A	F8G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-761(B) 9=-665(B) 10=-692(B)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-714(B) 9=-729(B) 10=-665(B)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-761(B) 9=-665(B) 10=-692(B)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-714(B) 9=-729(B) 10=-665(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F9	Floor	1	1	I50173827
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:15 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wxVu2u6diCroJJMHrBqmV1?d02gZa?WWCZm8l8zmZ4M

1-3-0 0-10-15 1-9-9

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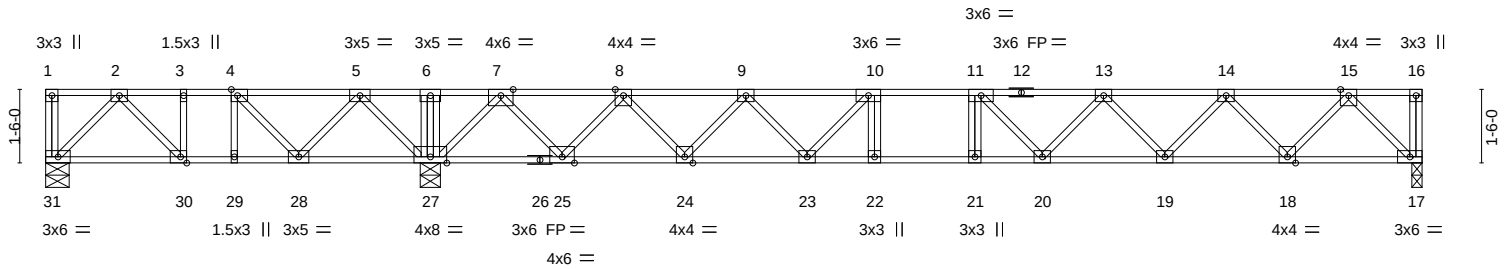

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-10-3 28-1-0
7-10-3 20-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.24	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.39	20-21	>618	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 158 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 27=0-4-15
Max Uplift 31=-203(LC 4)
Max Grav 31=307(LC 3), 17=1155(LC 7), 27=2401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-239/652, 3-4=-239/652, 4-5=0/1205, 5-6=0/2394, 6-7=0/2394, 7-8=-260/104, 8-9=-1989/0, 9-10=-3103/0, 10-11=-3653/0, 11-13=-3621/0, 13-14=-3039/0, 14-15=-1851/0
BOT CHORD 29-30=-652/239, 28-29=-652/239, 27-28=-1657/0, 25-27=-952/0, 24-25=0/1268, 23-24=0/2675, 22-23=0/3653, 21-22=0/3653, 20-21=0/3653, 19-20=0/3487, 18-19=0/2579, 17-18=0/1096
WEBS 2-31=-326/341, 2-30=-594/12, 5-27=-1189/0, 5-28=0/829, 4-28=-942/0, 4-29=0/290, 3-30=-17/265, 7-27=-1995/0, 7-25=0/1538, 8-25=-1517/0, 8-24=0/1091, 9-24=-1036/0, 9-23=0/676, 10-23=-938/0, 15-17=-1550/0, 15-18=0/1123, 14-18=-1082/0, 14-19=0/683, 13-19=-666/0, 13-20=0/311, 11-20=-326/248, 11-21=-333/54, 10-22=-22/366

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 31.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F9G	FLOOR GIRDER	1	1	I50173828
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:28 2022 Page 1
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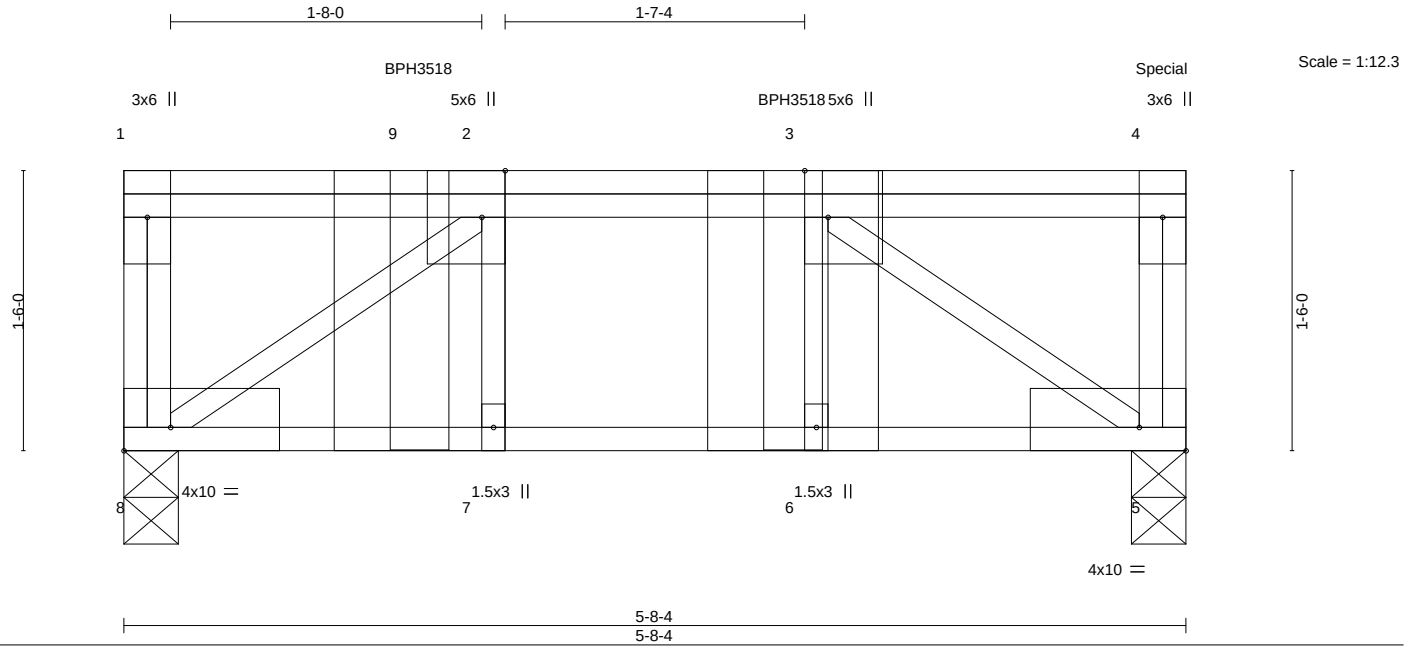

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=1989(LC 1), 5=2649(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-468/0, 4-5=-1130/0, 2-3=-2139/0
BOT CHORD 7-8=0/2139, 6-7=0/2139, 5-6=0/2139
WEBS 2-8=-2621/0, 3-5=-2621/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-0 from the left end to 3-7-0 to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 801 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-762(F) 3=-701(F) 9=-701(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-762(F) 3=-701(F) 9=-701(F)

February 11,2022

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
					I50173828
PRYOR-F4A	F9G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-801(F) 3=-736(F) 9=-701(F)
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-762(F) 3=-701(F) 9=-757(F)
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-3=-445(F=-325), 3-4=-365(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-801(F) 3=-736(F) 9=-701(F)
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 5-8=-10, 1-2=-365(F=-325), 2-4=-445(F=-325)
   Concentrated Loads (lb)
   Vert: 4=-762(F) 3=-701(F) 9=-757(F)

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F10	Floor	6	1	I50173829
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:49 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CsgiPzL25LSVotCDHXCXbFyf2Bs6M_F1drOQdbzmZ6e

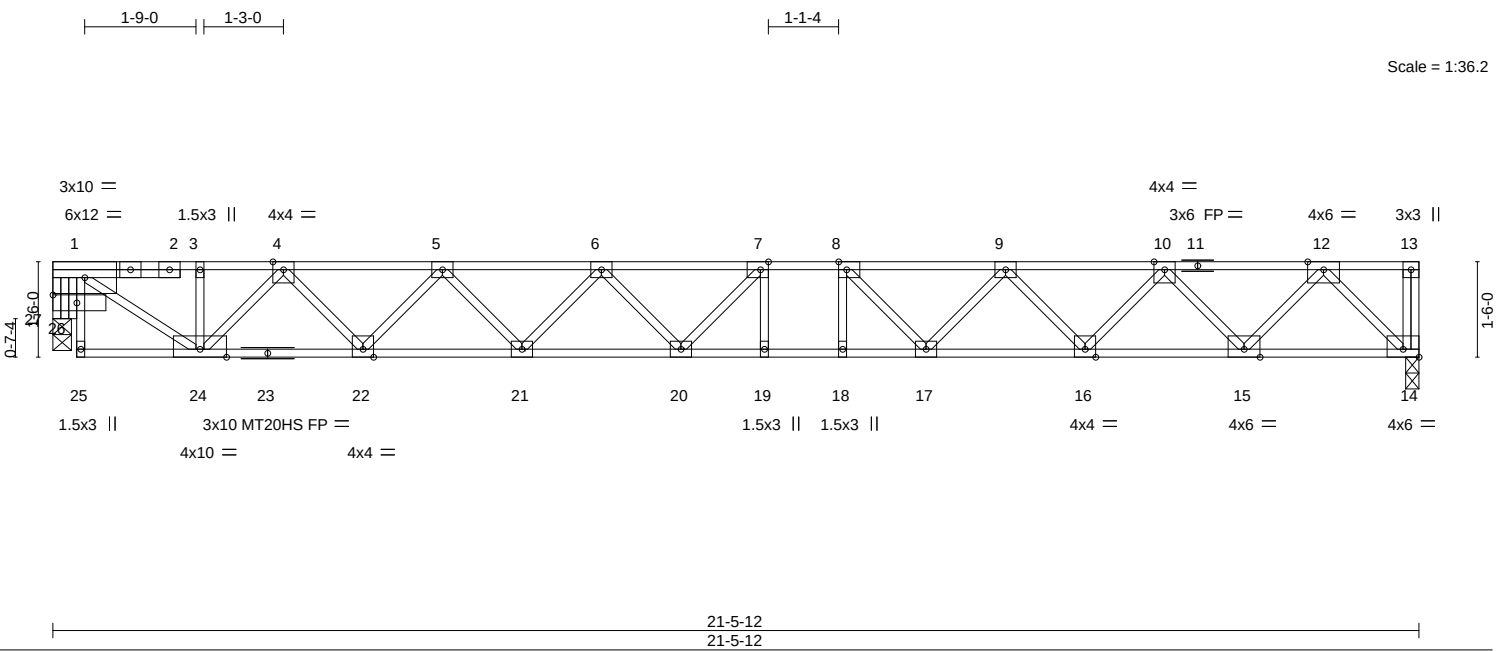

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [14:Edge,0-1-8], [26:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.32	19-20	>792	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.52	19-20	>487	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-24: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 27=0-3-8
Max Grav 14=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1883/0, 3-4=-1880/0, 4-5=-3583/0, 5-6=-4691/0, 6-7=-5190/0, 7-8=-5224/0, 8-9=-4823/0, 9-10=-3849/0, 10-12=-2266/0
BOT CHORD	22-24=0/2868, 21-22=0/4274, 20-21=0/5092, 19-20=0/5224, 18-19=0/5224, 17-18=0/5224, 16-17=0/4471, 15-16=0/3198, 14-15=0/1311
WEBS	1-24=0/2080, 4-24=-1431/0, 4-22=0/1062, 5-22=-1027/0, 5-21=0/621, 6-21=-595/0, 6-20=-71/346, 12-14=-1854/0, 12-15=0/1420, 10-15=-1385/0, 10-16=0/967, 9-16=-925/0, 9-17=0/615, 8-17=-771/0, 7-20=-394/271, 7-19=-305/137, 8-18=-116/326, 1-27=-1394/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F11	Floor	1	1	I50173830
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:55 2022 Page 1
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1-3-0 1-1-8 0-8-8

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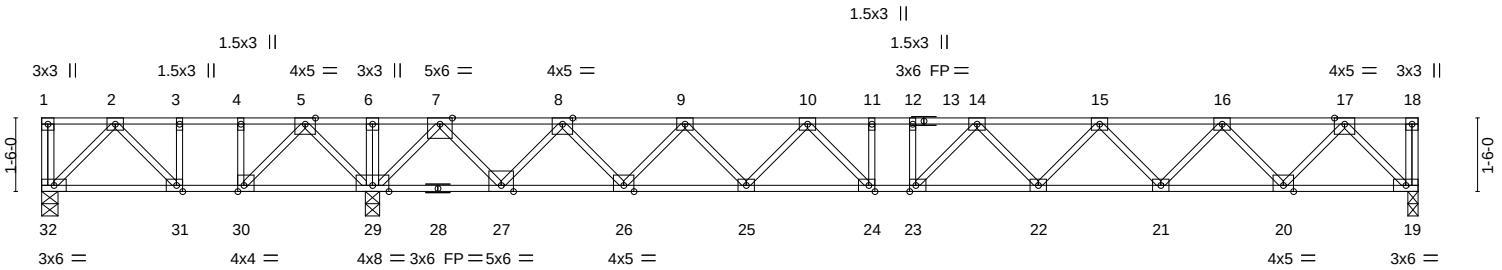

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-9-0 28-1-0
6-9-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	22-23	>977	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.42	22-23	>603	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-4 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-363(LC 4)
Max Grav 32=213(LC 3), 19=1216(LC 7), 29=2517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1070, 3-4=0/1070, 4-5=0/1070, 5-6=0/2631, 6-7=0/2631, 8-9=-1976/0, 9-10=-3254/0, 10-11=-4051/0, 11-12=-4051/0, 12-14=-4051/0, 14-15=-3969/0, 15-16=-3263/0, 16-17=-1969/0
BOT CHORD 31-32=-390/138, 30-31=-1070/0, 29-30=-1896/0, 27-29=-1171/0, 26-27=0/1174, 25-26=0/2756, 24-25=0/3740, 23-24=0/4051, 22-23=0/4147, 21-22=0/3753, 20-21=0/2755, 19-20=0/1155
WEBS 2-32=-195/552, 2-31=-984/0, 3-31=0/548, 5-29=-1208/0, 5-30=0/1356, 4-30=-764/0, 7-29=-2065/0, 7-27=0/1673, 8-27=-1624/0, 8-26=0/1207, 9-26=-1173/0, 9-25=0/753, 10-25=-738/0, 10-24=0/679, 17-19=-1634/0, 17-20=0/1209, 16-20=-1169/0, 16-21=0/754, 15-21=-728/0, 15-22=0/346, 14-22=-319/0, 14-23=-402/232, 11-24=-342/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F12	FLOOR	48	1	I50173831
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:56 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VCbLtMQRRULW8xEZCVqANjktD0CmV7U3FRbIMhzmZ6X

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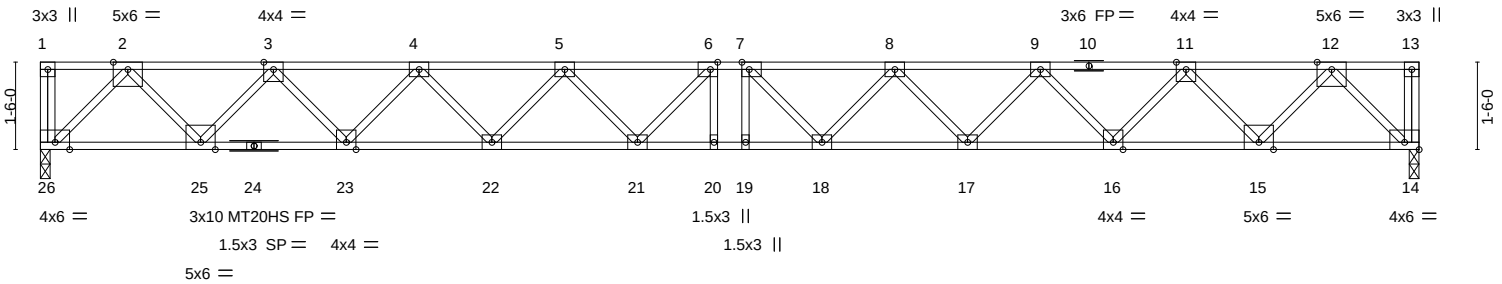

23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>615	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.74	20	>378	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-4399/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5659/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 23-25=0/3616, 22-23=0/5162, 21-22=0/6131, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2064/0, 2-25=0/1622, 3-25=-1583/0, 3-23=0/1164, 4-23=-1135/0, 4-22=0/738, 5-22=-702/0, 5-21=-33/457, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F13	Floor	1	1	I50173832
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:57 2022 Page 1
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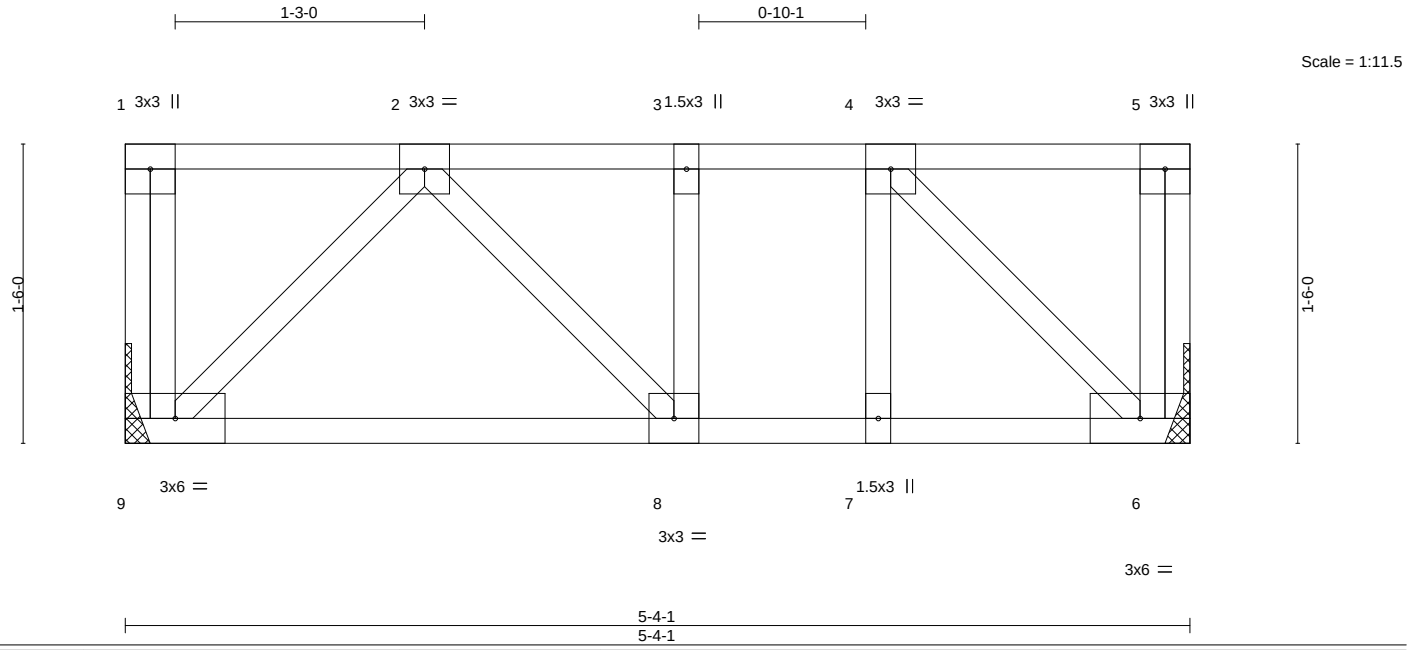

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 35 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 6=Mechanical
Max Grav 9=636(LC 1), 6=636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-555/0, 3-4=-555/0
BOT CHORD 8-9=0/492, 7-8=0/555, 6-7=0/555
WEBS 2-9=-696/0, 4-6=-768/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F14	FLOOR	3	1	I50173833
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:58 2022 Page 1
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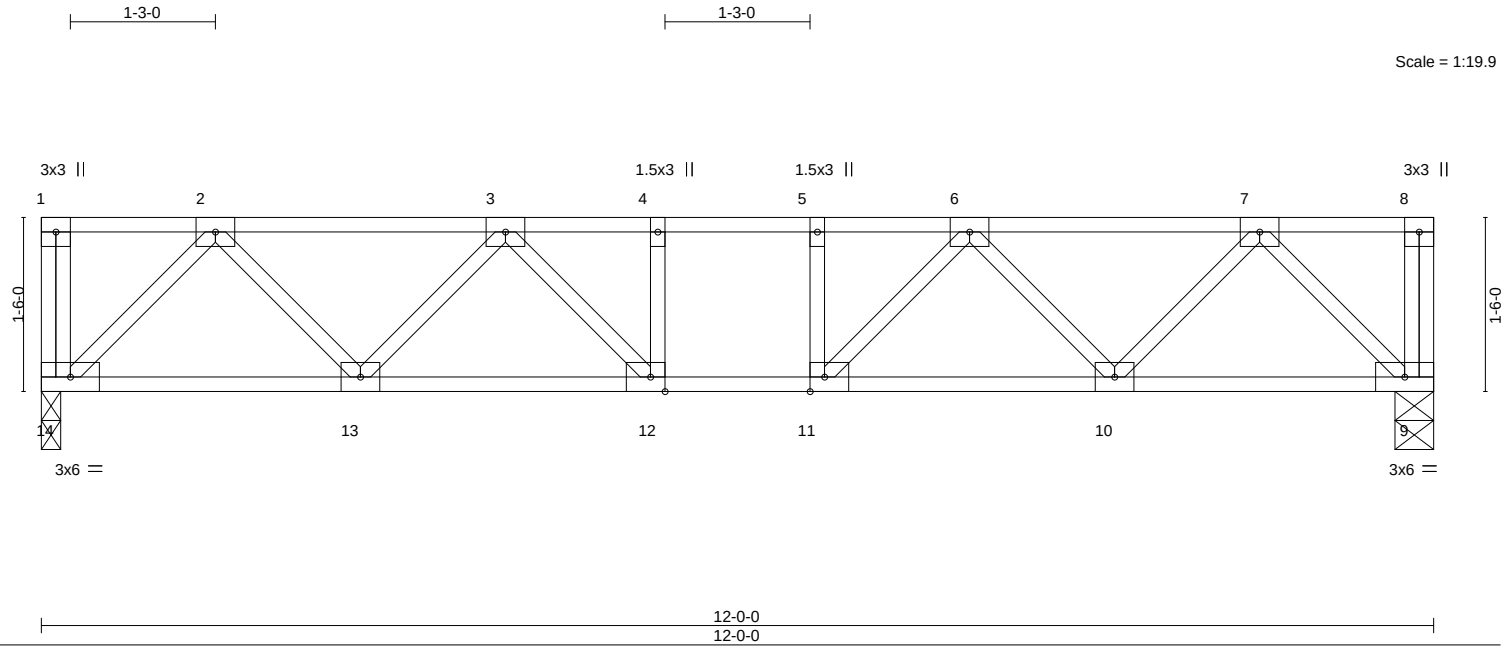

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=764(LC 1), 9=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1104/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1104/0
BOT CHORD 13-14=0/708, 12-13=0/1473, 11-12=0/1615, 10-11=0/1473, 9-10=0/708
WEBS 2-14=-1001/0, 2-13=0/589, 3-13=-548/0, 3-12=0/360, 7-9=-1001/0, 7-10=0/589, 6-10=-548/0, 6-11=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F15	FLOOR	1	1	I50173834
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:59 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vnHUVNSJkPj5?Pz8tdOt?MMXoDLzicpVxPpyz0zmZ6U

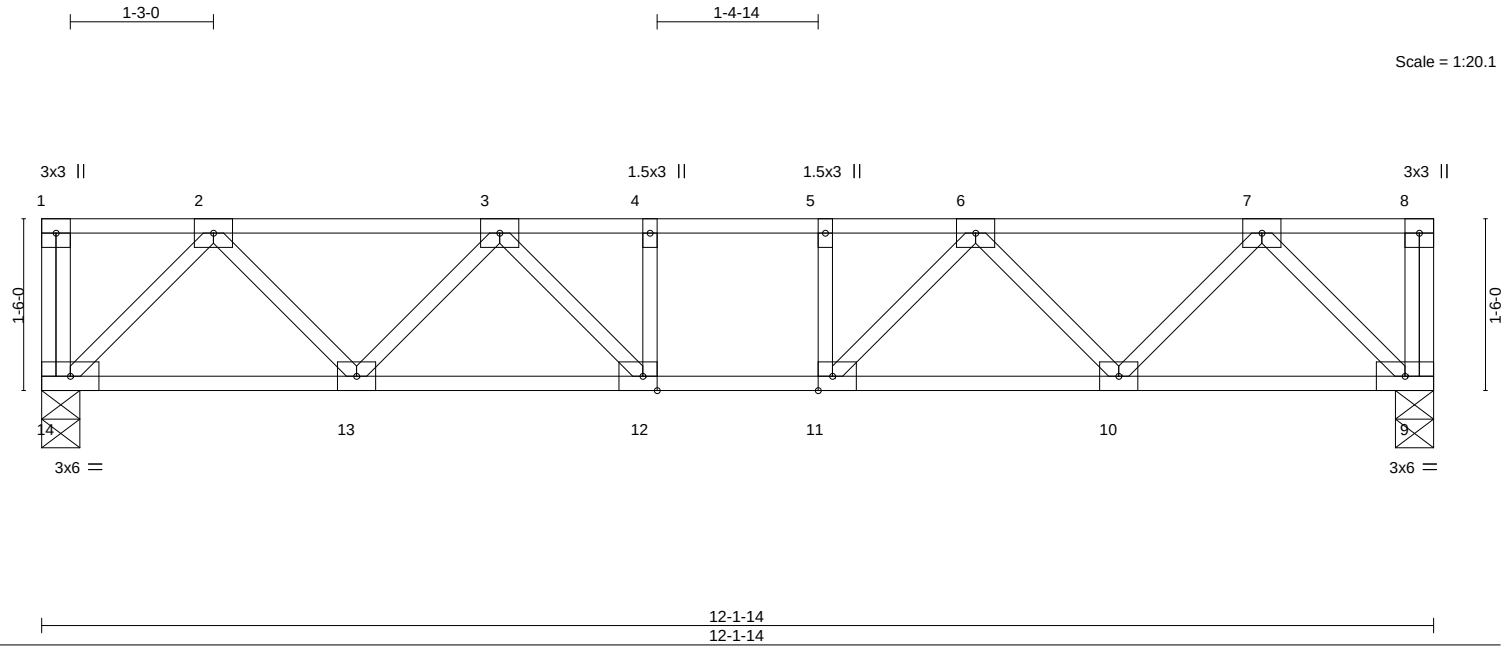

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=774(LC 1), 9=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1123/0, 3-4=-1656/0, 4-5=-1656/0, 5-6=-1656/0, 6-7=-1123/0
BOT CHORD 13-14=0/718, 12-13=0/1501, 11-12=0/1656, 10-11=0/1501, 9-10=0/718
WEBS 2-14=-1015/0, 2-13=0/602, 3-13=-562/0, 3-12=0/383, 7-9=-1015/0, 7-10=0/602, 6-10=-562/0, 6-11=0/383

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
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Chesterfield, MO 63017

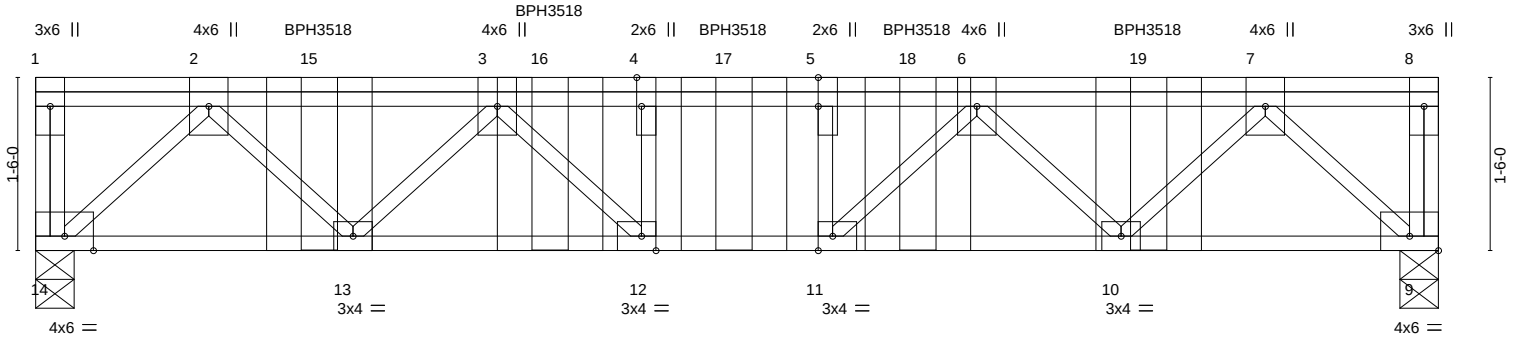
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173835
PRYOR-F4A	F15G	FLOOR GIRDER	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Thu Feb 10 16:10:27 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-E_Eltx35LFd18n9HcWajC23q52Jaam6PtXpZW2zmUkg

1-3-0 1-4-14

Scale = 1:20.0



12-1-14
12-1-14

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	0.06	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	0.07	12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.03	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 84 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-14,8-9: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Uplift 14=-701(LC 10), 9=-693(LC 9)
Max Grav 14=774(LC 13), 9=774(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-1169/1356, 3-15=-1169/1356, 3-16=-1728/2082, 4-16=-1728/2082, 4-17=-1728/2082, 5-17=-1728/2082, 5-18=-1728/2082, 6-18=-1728/2082, 6-19=-1169/1350, 7-19=-1169/1350
BOT CHORD 13-14=-825/747, 12-13=-1915/1563, 11-12=-2082/1728, 10-11=-1911/1563, 9-10=-817/747
WEBS 2-14=-1033/1141, 2-13=-770/612, 3-13=-571/809, 3-12=-428/233, 4-12=-146/315, 7-9=-1033/1129, 7-10=-774/612, 6-10=-571/814, 6-11=-438/233, 5-11=-146/321

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 701 lb uplift at joint 14 and 693 lb uplift at joint 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Load case(s) 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-5-8 from the left end to 9-7-12 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-120
Concentrated Loads (lb)
Vert: 15=96(B) 16=96(B) 17=96(B) 18=96(B) 19=96(B)

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173835
PRYOR-F4A	F15G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S)

13) User defined: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-120

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F16	FLOOR	1	1	I50173836
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:02 2022 Page 1
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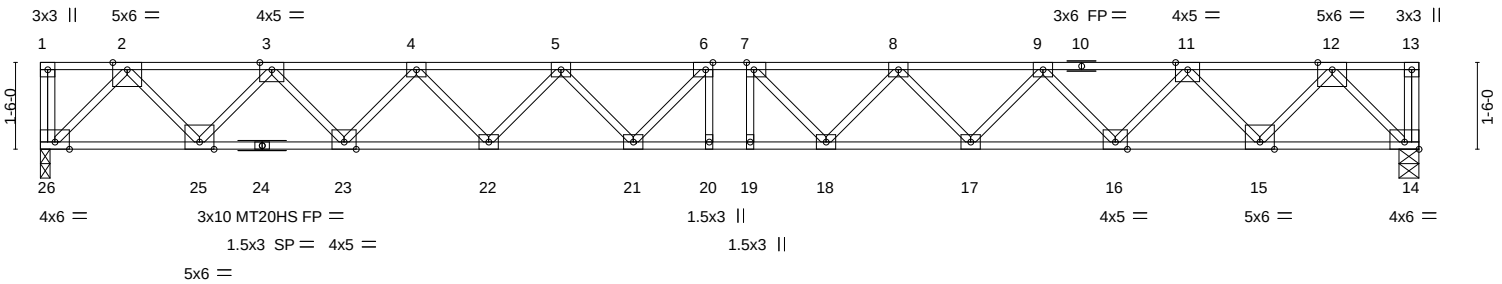

23-10-0
23-10-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.47	20	>602	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.76	20	>370	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-2-0, 14=0-4-2
Max Grav 26=1533(LC 1), 14=1533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2572/0, 3-4=-4439/0, 4-5=-5718/0, 5-6=-6396/0, 6-7=-6583/0, 7-8=-6396/0, 8-9=-5719/0, 9-11=-4440/0, 11-12=-2571/0
BOT CHORD 25-26=0/1471, 23-25=0/3646, 22-23=0/5212, 21-22=0/6201, 20-21=0/6583, 19-20=0/6583, 18-19=0/6583, 17-18=0/6201, 16-17=0/5213, 15-16=0/3646, 14-15=0/1471
WEBS 2-26=-2080/0, 2-25=0/1637, 3-25=-1597/0, 3-23=0/1179, 4-23=-1149/0, 4-22=0/753, 5-22=-717/0, 5-21=-20/472, 6-21=-542/135, 12-14=-2080/0, 12-15=0/1636, 11-15=-1598/0, 11-16=0/1180, 9-16=-1149/0, 9-17=0/752, 8-17=-717/0, 8-18=-20/472, 7-18=-542/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F17	FLOOR	11	1	I50173837
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-oYW_LlWqoeDWT0Hv6TSp9CX4mqbveIP5s1n96ozmZ6Q

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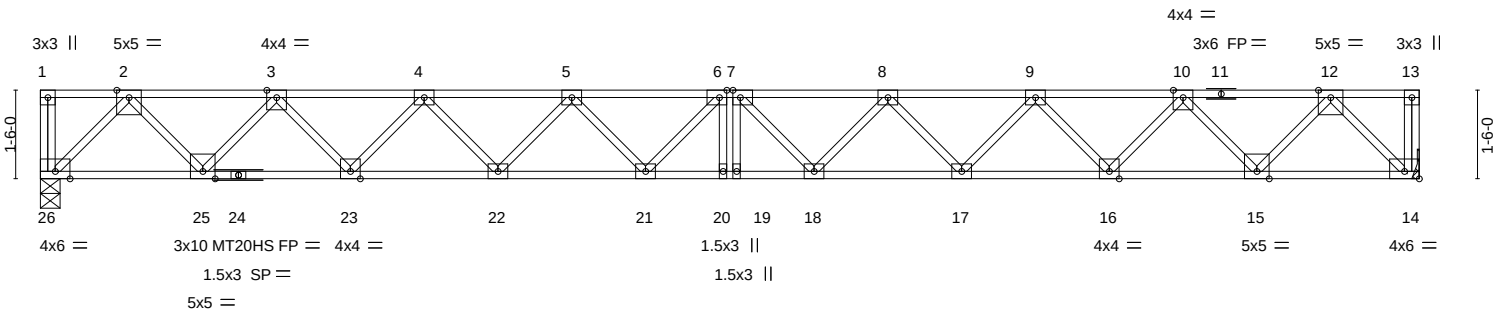

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.43	20	>642	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.70	20	>395	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-4-0, 14=Mechanical
Max Grav 26=1502(LC 1), 14=1502(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2512/0, 3-4=-4324/0, 4-5=-5545/0, 5-6=-6170/0, 6-7=-6332/0, 7-8=-6170/0, 8-9=-5545/0, 9-10=-4325/0, 10-12=-2512/0
BOT CHORD 25-26=0/1439, 23-25=0/3559, 22-23=0/5069, 21-22=0/5998, 20-21=0/6332, 19-20=0/6332, 18-19=0/6332, 17-18=0/5998, 16-17=0/5068, 15-16=0/3559, 14-15=0/1439
WEBS 2-26=-2036/0, 2-25=0/1595, 3-25=-1555/0, 3-23=0/1137, 4-23=-1107/0, 4-22=0/709, 5-22=-673/0, 5-21=-58/434, 6-21=-454/123, 6-20=-258/269, 12-14=-2036/0, 12-15=0/1595, 10-15=-1557/0, 10-16=0/1137, 9-16=-1106/0, 9-17=0/709, 8-17=-674/0, 8-18=-58/435, 7-18=-454/124, 7-19=-258/269

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F18	FLOOR	4	1	I50173838
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:05 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kxelmRX4JFTEjKQIDuVHEdcYHeON6JIOJLGGBgzmZ6O

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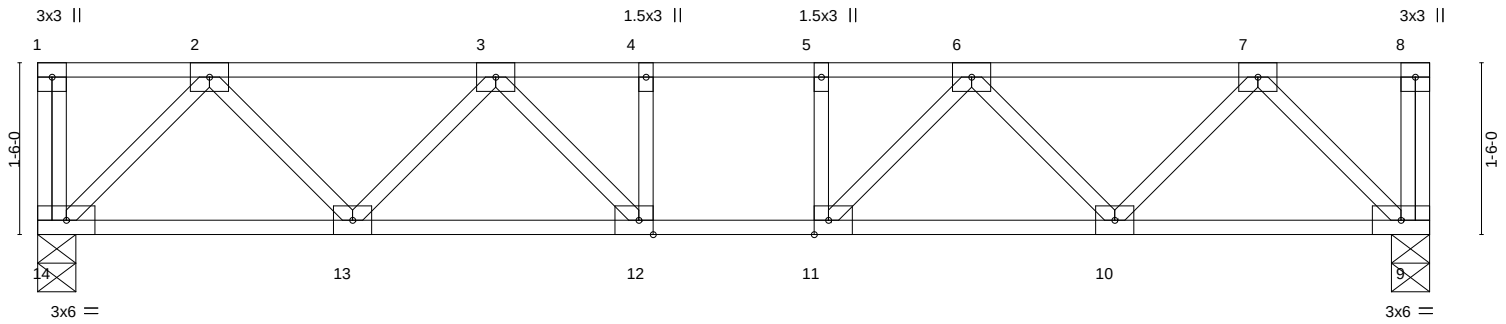

12-1-14
12-1-14

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=774(LC 1), 9=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1123/0, 3-4=-1656/0, 4-5=-1656/0, 5-6=-1656/0, 6-7=-1123/0
BOT CHORD 13-14=0/718, 12-13=0/1501, 11-12=0/1656, 10-11=0/1501, 9-10=0/718
WEBS 2-14=-1015/0, 2-13=0/602, 3-13=-562/0, 3-12=0/383, 7-9=-1015/0, 7-10=0/602, 6-10=-562/0, 6-11=0/383

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F18G	FLOOR GIRDER	1	1	I50173839
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Thu Feb 10 16:11:23 2022 Page 1

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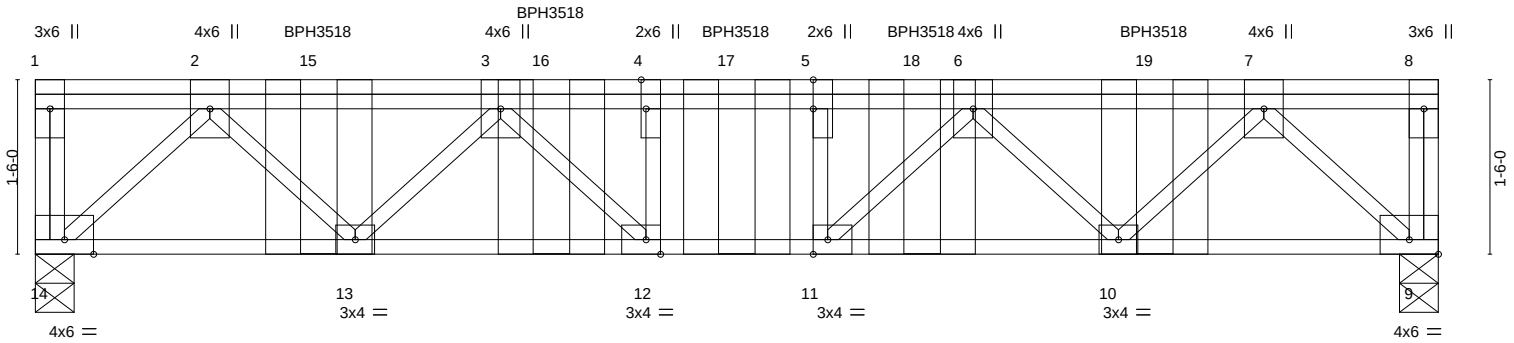

12-0-12

12-0-12

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	0.06	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	0.07	12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 84 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Uplift 14=-700(LC 10), 9=-700(LC 9)
Max Grav 14=768(LC 13), 9=768(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-15=-1157/1350, 3-15=-1157/1350, 3-16=-1702/2061, 4-16=-1702/2061, 4-17=-1702/2061, 5-17=-1702/2061, 5-18=-1702/2061, 6-18=-1702/2061, 6-19=-1157/1350, 7-19=-1157/1350
BOT CHORD	13-14=-824/741, 12-13=-1903/1546, 11-12=-2061/1702, 10-11=-1903/1546, 9-10=-824/741
WEBS	2-14=-1024/1140, 2-13=-762/604, 3-13=-563/802, 3-12=-414/222, 4-12=-139/304, 7-9=-1024/1139, 7-10=-763/604, 6-10=-563/802, 6-11=-414/222, 5-11=-139/304

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 700 lb uplift at joint 14 and 700 lb uplift at joint 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Load case(s) 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-5-4 from the left end to 9-7-8 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-14=-10, 1-8=-120
   Concentrated Loads (lb)
   Vert: 15=96(B) 16=96(B) 17=96(B) 18=96(B) 19=96(B)
13) User defined: Lumber Increase=1.00, Plate Increase=1.00

February 11,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173839
PRYOR-F4A	F18G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S)

Uniform Loads (plf)

Vert: 9-14=-10, 1-8=-120

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F19	FLOOR	1	1	I50173840
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-C7C7znYi4Zb5LU?Unb0Wnq9kV2kIrmiXY?0pj6zmZ6N

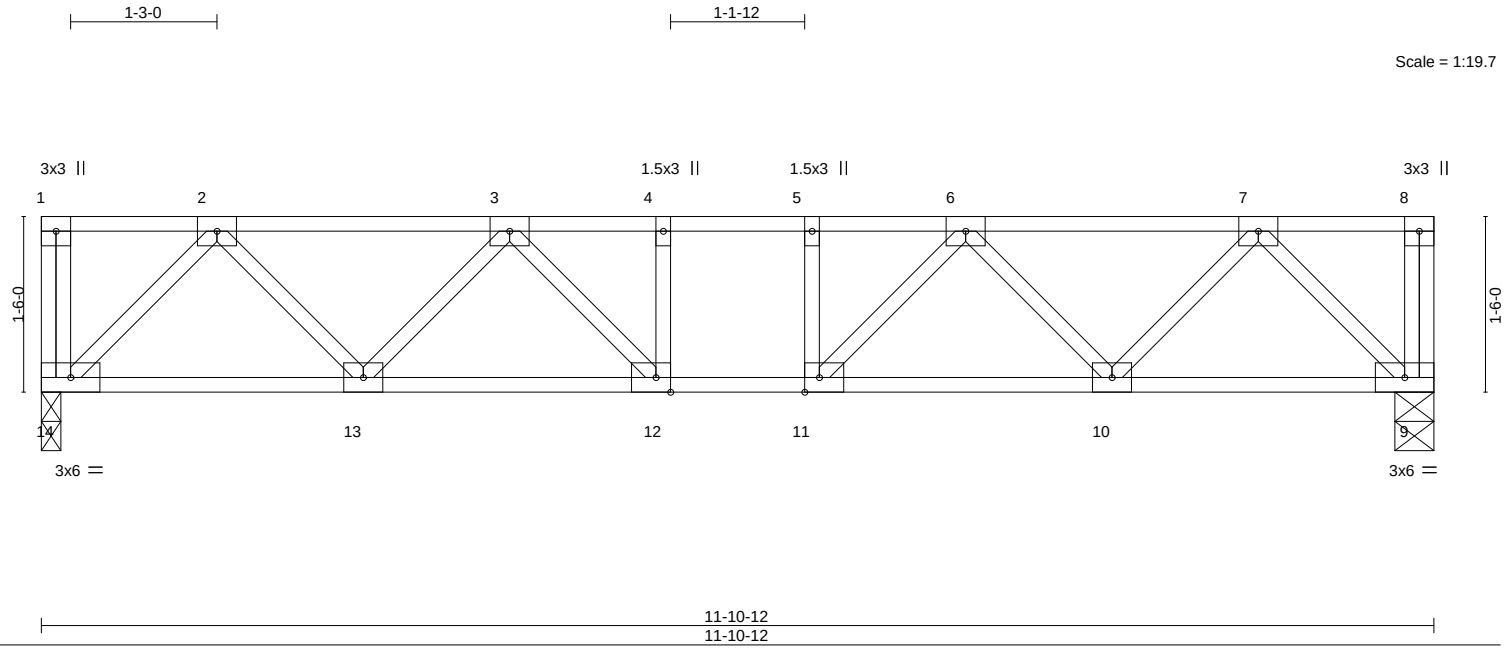

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F19G	FLOOR GIRDER	1	1	I50173841
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek

8.430 s Oct 22 2021 MiTek Industries, Inc. Thu Feb 10 16:12:13 2022 Page 1

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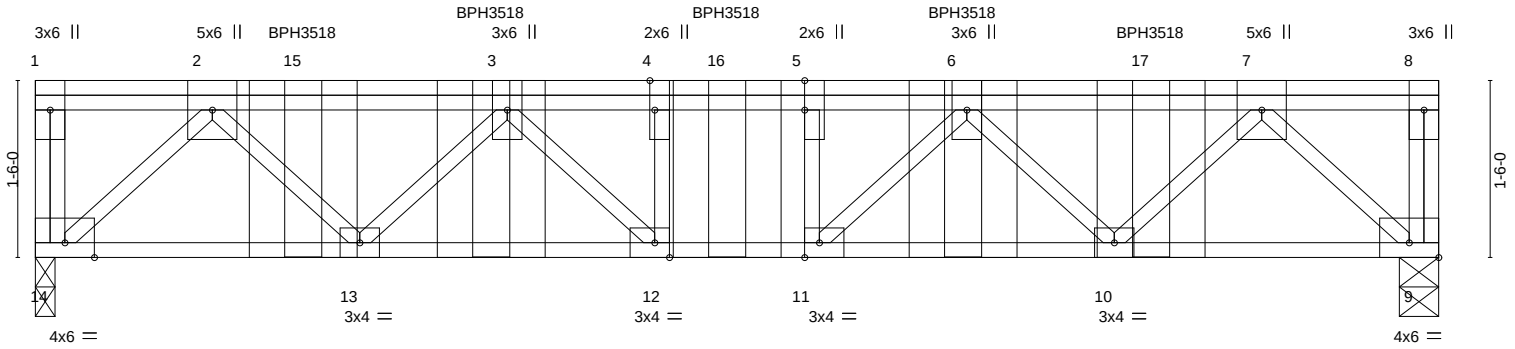

11-10-12

11-10-12

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	0.06	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	0.07	12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Uplift 14=-711(LC 10), 9=-694(LC 9)
Max Grav 14=757(LC 13), 9=757(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-15=-1136/1328, 3-15=-1136/1328, 3-4=-1657/1888, 4-16=-1657/1888, 5-16=-1657/1888, 5-6=-1657/1888, 6-17=-1136/1326, 7-17=-1136/1326
BOT CHORD	13-14=-841/729, 12-13=-1842/1514, 11-12=-1888/1657, 10-11=-1854/1514, 9-10=-826/729
WEBS	2-14=-1008/1163, 2-13=-707/590, 3-13=-549/745, 7-9=-1008/1142, 7-10=-725/590, 6-10=-549/766

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 711 lb uplift at joint 14 and 694 lb uplift at joint 9.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-4 from the left end to 9-5-8 to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-120
Concentrated Loads (lb)
Vert: 3=96(F) 6=96(F) 15=96(F) 16=96(F) 17=96(F)
13) User defined: Lumber Increase=1.00, Plate Increase=1.00

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173841
PRYOR-F4A	F19G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S)

Uniform Loads (plf)

Vert: 9-14=-10, 1-8=-120

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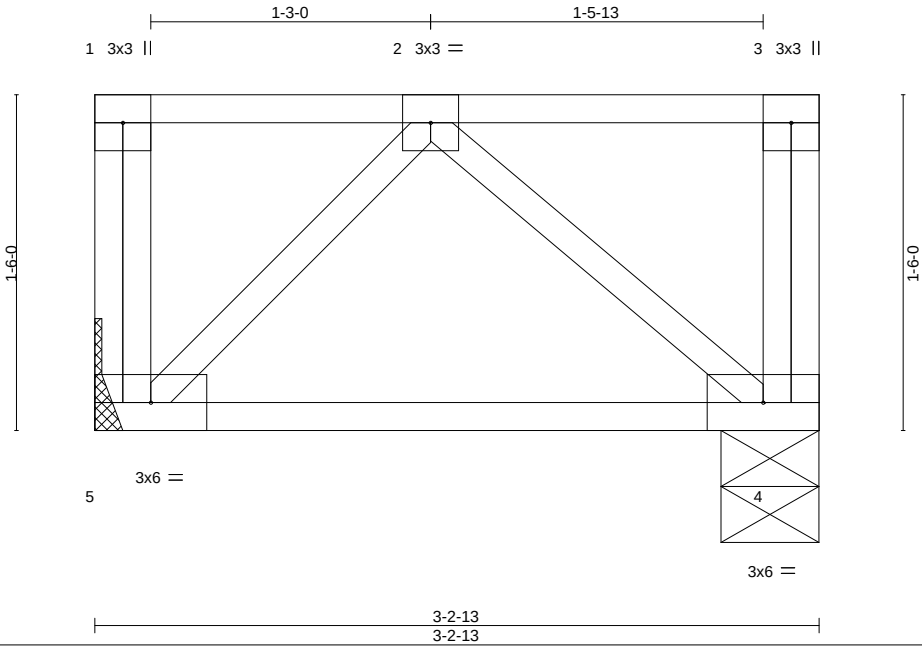
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F20	Floor	1	1	I50173842
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:11 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Z4?00Ucrv5EORFuRa8chUusar3WUW4_GhGjaOKzmZ6I



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 4=0-5-4
Max Grav 5=373(LC 1), 4=373(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-341/0, 2-4=-317/0

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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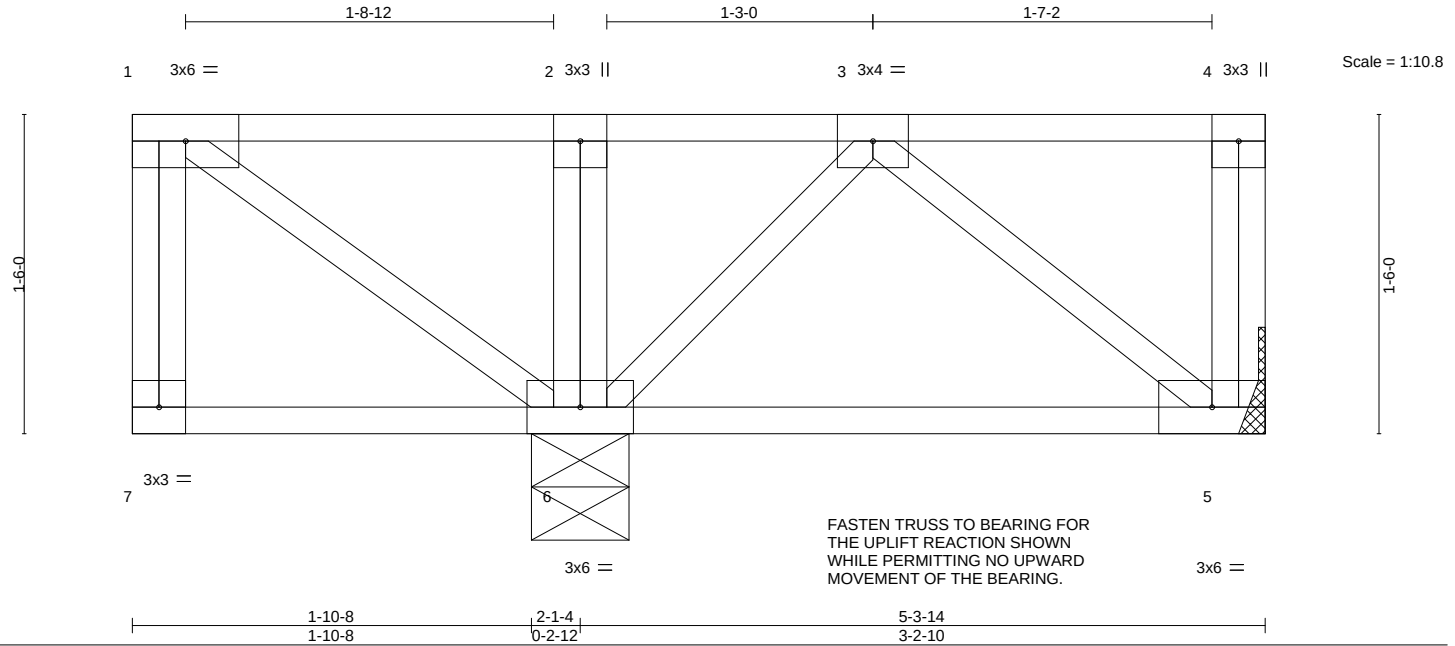
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F21	Floor	15	1	I50173843
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:11 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Z4?00Ucrv5EORFuRa8chUusWu3XFW2BGhGjaOKzmZ6I



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-385(LC 3)
Max Grav 5=24(LC 4), 6=1520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-534/0
WEBS 1-6=-1220/0, 3-6=-773/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F22	Floor	6	1	I50173844
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:12 2022 Page 1
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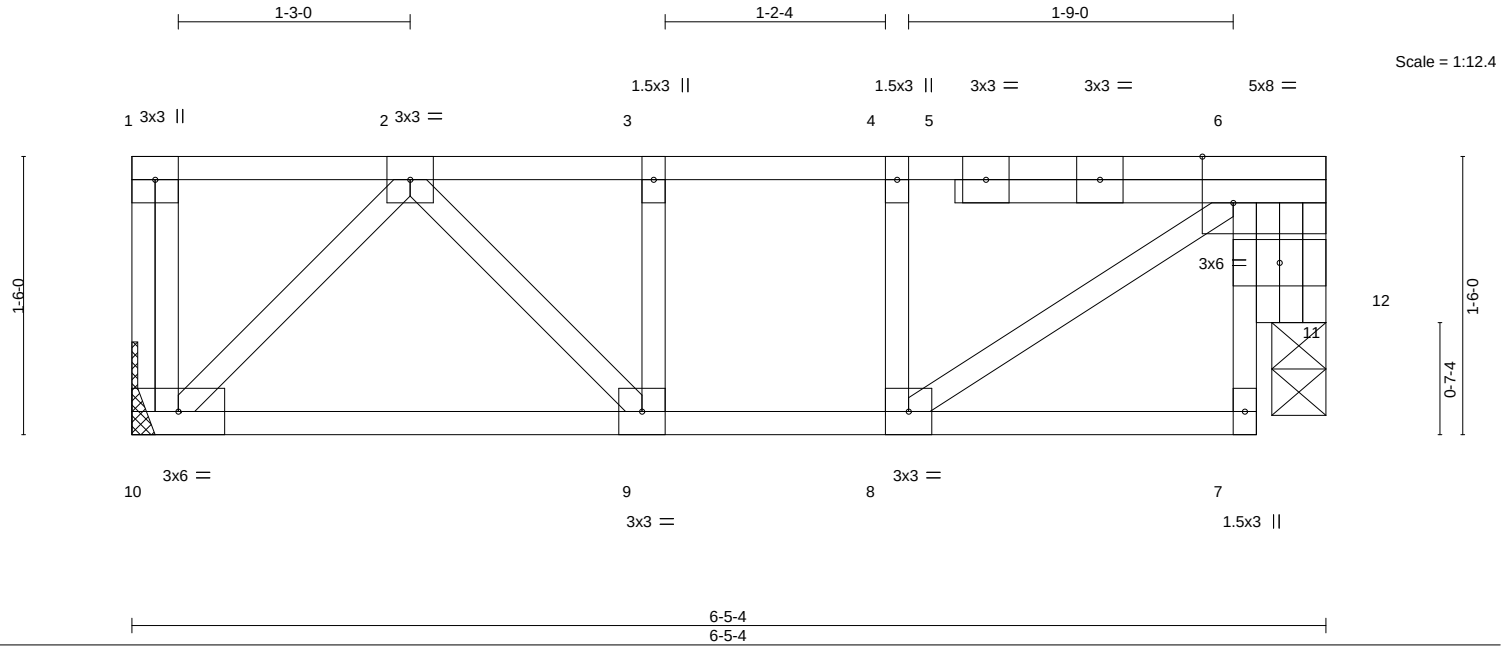

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=395(LC 1), 12=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-427/0, 3-4=-427/0, 4-6=-430/0
BOT CHORD	9-10=0/317, 8-9=0/427
WEBS	6-8=0/451, 2-10=-448/0, 6-12=-386/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F23	Floor	3	1	I50173845
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:13 2022 Page 1
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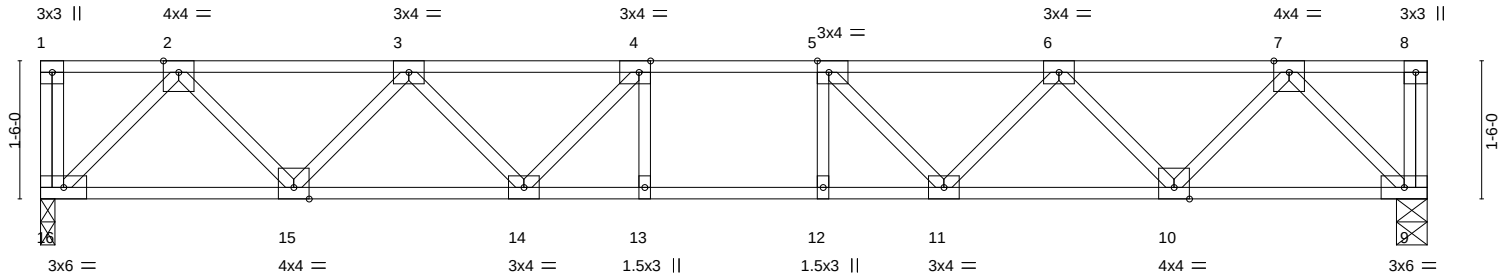

15-0-12
15-0-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.18	13-14	>993	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-1-14, 9=0-4-0
Max Grav 16=963(LC 1), 9=963(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1488/0, 3-4=-2315/0, 4-5=-2578/0, 5-6=-2315/0, 6-7=-1488/0
BOT CHORD 15-16=0/901, 14-15=0/2048, 13-14=0/2578, 12-13=0/2578, 11-12=0/2578, 10-11=0/2048, 9-10=0/901
WEBS 2-16=-1274/0, 2-15=0/872, 3-15=-833/0, 3-14=0/448, 4-14=-533/0, 7-9=-1274/0, 7-10=0/872, 6-10=-833/0, 6-11=0/448, 5-11=-533/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F24	Floor	4	1	I50173846
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:15 2022 Page 1
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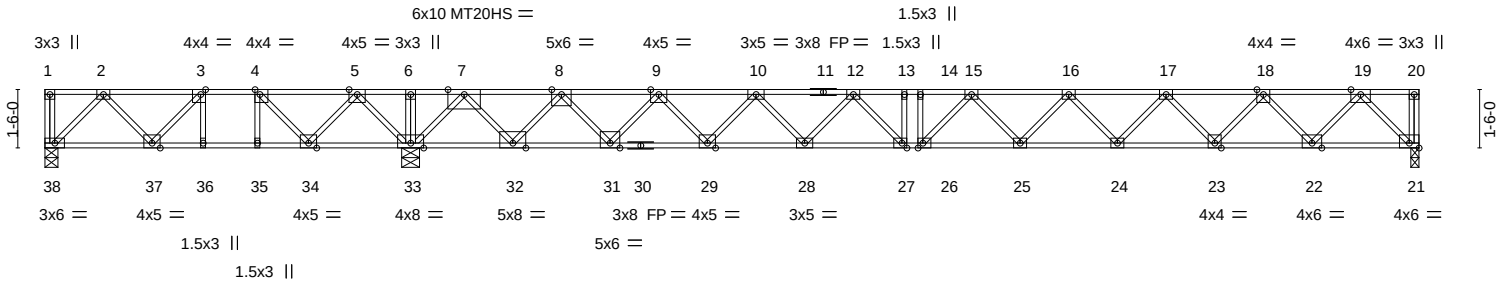

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-12 35-3-11
9-4-12 25-10-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [21:Edge,0-1-8], [26:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.44	25-26	>697	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.71	25-26	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 11-20: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except* 1-38,20-21,6-33,3-36,4-35,13-27,14-26: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-451(LC 4)
Max Grav 38=315(LC 3), 21=1434(LC 7), 33=3232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-239/1003, 3-4=-56/1902, 4-5=0/2977, 5-6=0/4752, 6-7=0/4752, 7-8=0/1476, 8-9=-1344/0, 9-10=-3319/0, 10-12=-4695/0, 12-13=-5572/0, 13-14=-5572/0, 14-15=-5572/0, 15-16=-5679/0, 16-17=-5168/0, 17-18=-4072/0, 18-19=-2383/0
BOT CHORD 37-38=-412/289, 36-37=-1902/56, 35-36=-1902/56, 34-35=-1902/56, 33-34=-3763/0, 32-33=-2930/0, 31-32=-410/351, 29-31=0/2465, 28-29=0/4150, 27-28=0/5229, 26-27=0/5572, 25-26=0/5760, 24-25=0/5562, 23-24=0/4755, 22-23=0/3368, 21-22=0/1372
WEBS 2-38=-408/583, 2-37=-879/0, 3-37=0/1301, 3-36=-723/0, 5-33=-1607/0, 5-34=0/1404, 4-34=-1810/0, 4-35=0/750, 7-33=-2578/0, 7-32=0/2161, 8-32=-2147/0, 8-31=0/1723, 9-31=-1686/0, 9-29=0/1290, 10-29=-1253/0, 10-28=0/830, 12-28=-814/0, 19-21=-1940/0, 19-22=0/1502, 18-22=-1465/0, 18-23=0/1047, 17-23=-1014/0, 17-24=0/614, 16-24=-587/0, 16-25=-61/303, 15-25=-273/129, 15-26=-553/169, 12-27=0/738, 13-27=-310/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 451 lb uplift at joint 38.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F25	Floor	1	1	I50173847
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:16 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-v2pv4Cg_kesgX0mPNiBsBxZI043LB84?rYRL4XzmZ6D

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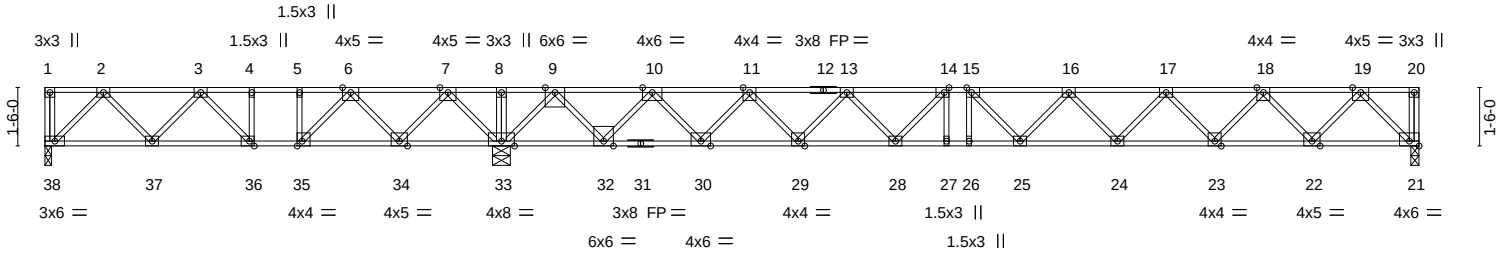

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-12 35-3-11
11-8-12 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.33	25-26	>841	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.53	25-26	>529	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-162(LC 4)
Max Grav 38=533(LC 3), 21=1301(LC 4), 33=3006(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/415, 3-4=-644/1296, 4-5=-644/1296, 5-6=-644/1296, 6-7=0/2551, 7-8=0/4070, 8-9=0/4070, 9-10=0/1095, 10-11=-1434/0, 11-13=-3101/0, 13-14=-4169/0, 14-15=-4611/0, 15-16=-4691/0, 16-17=-4433/0, 17-18=-3576/0, 18-19=-2129/0
BOT CHORD 37-38=-187/477, 36-37=-716/824, 35-36=-1296/644, 34-35=-1986/202, 33-34=-3089/0, 32-33=-2392/0, 30-32=-315/442, 29-30=0/2402, 28-29=0/3771, 27-28=0/4611, 26-27=0/4611, 25-26=0/4611, 24-25=0/4711, 23-24=0/4136, 22-23=0/2994, 21-22=0/1239
WEBS 2-38=-674/264, 2-37=-339/295, 3-37=-221/448, 3-36=-933/0, 4-36=0/466, 7-33=-1639/0, 7-34=0/1184, 6-34=-1233/0, 6-35=0/1277, 5-35=-679/0, 9-33=-2373/0, 9-32=0/1938, 10-32=-1915/0, 10-30=0/1497, 11-30=-1463/0, 11-29=0/1061, 13-29=-1019/0, 13-28=0/693, 14-28=-805/0, 14-27=-84/402, 19-21=-1752/0, 19-22=0/1323, 18-22=-1285/0, 18-23=0/866, 17-23=-833/0, 17-24=0/441, 16-24=-413/0, 16-25=-262/200, 15-25=-206/418, 15-26=-387/99

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F26	Floor	2	1	I50173848
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:18 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sRwfVthEGF6OnKwoU7EKGMfdptlif2VIIswS8QzmZ6B

1-3-0 1-1-4 0-6-12

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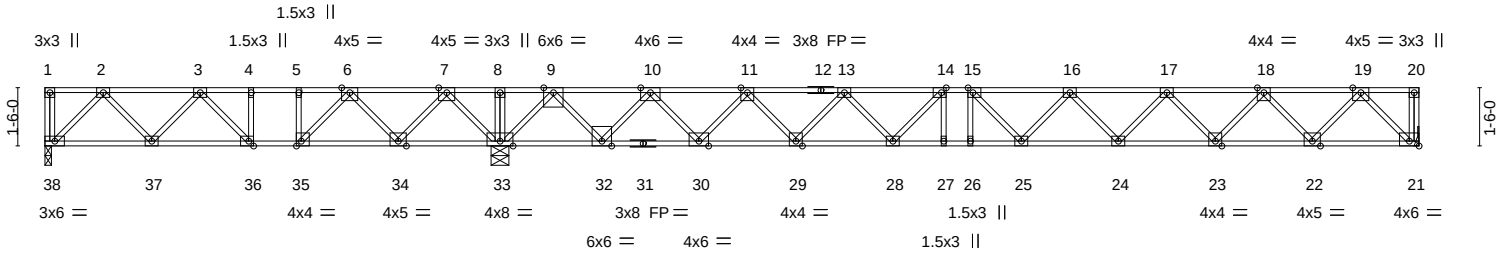

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-8-12 35-5-0
11-8-12 23-8-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.34	25-26	>826	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.55	25-26	>518	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=Mechanical, 33=0-5-8
Max Uplift 38=-166(LC 4)
Max Grav 38=531(LC 3), 21=1307(LC 4), 33=3018(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-673/422, 3-4=-639/1313, 4-5=-639/1313, 5-6=-639/1313, 6-7=0/2578, 7-8=0/4102, 8-9=0/4102, 9-10=0/1106, 10-11=-1430/0, 11-13=-3112/0, 13-14=-4193/0, 14-15=-4651/0, 15-16=-4735/0, 16-17=-4467/0, 17-18=-3599/0, 18-19=-2141/0
BOT CHORD 37-38=-191/476, 36-37=-727/820, 35-36=-1313/639, 34-35=-2008/195, 33-34=-3119/0, 32-33=-2416/0, 30-32=-316/431, 29-30=0/2406, 28-29=0/3788, 27-28=0/4651, 26-27=0/4651, 25-26=0/4651, 24-25=0/4752, 23-24=0/4164, 22-23=0/3011, 21-22=0/1245
WEBS 2-38=-672/270, 2-37=-344/293, 3-37=-219/454, 3-36=-941/0, 4-36=0/470, 7-33=-1644/0, 7-34=0/1189, 6-34=-1238/0, 6-35=0/1285, 5-35=-683/0, 9-33=-2384/0, 9-32=0/1949, 10-32=-1926/0, 10-30=0/1508, 11-30=-1474/0, 11-29=0/1071, 13-29=-1028/0, 13-28=0/703, 14-28=-836/0, 19-21=-1761/0, 19-22=0/1331, 18-22=-1294/0, 18-23=0/874, 17-23=-841/0, 17-24=0/450, 16-24=-423/0, 16-25=-255/206, 15-25=-212/431, 15-26=-392/90, 14-27=-74/408

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 38.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

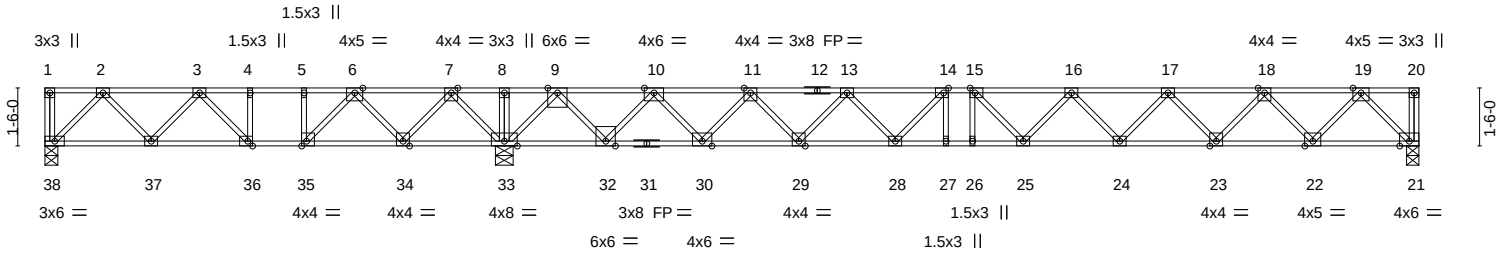
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F27	FLOOR	2	1	I50173849
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:21 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-G0co7vj7YAUzenfM9Fn1u?H8u5mRsOJl_q86llzmZ68

1-3-0 1-3-4 0-6-12

Scale = 1:59.7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-10-12 35-7-0
11-10-12 23-8-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>814	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.55	25-26	>511	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-7 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-3-13, 33=0-5-8
Max Uplift 38=-141(LC 4)
Max Grav 38=551(LC 3), 21=1314(LC 4), 33=3001(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-711/372, 3-4=-705/1235, 4-5=-705/1235, 5-6=-705/1235, 6-7=0/2489, 7-8=0/3987, 8-9=0/3987, 9-10=0/1031, 10-11=-1526/0, 11-13=-3195/0, 13-14=-4264/0, 14-15=-4713/0, 15-16=-4788/0, 16-17=-4507/0, 17-18=-3626/0, 18-19=-2154/0
BOT CHORD 37-38=-166/495, 36-37=-657/874, 35-36=-1235/705, 34-35=-1932/246, 33-34=-3012/0, 32-33=-2308/0, 30-32=-249/534, 29-30=0/2496, 28-29=0/3866, 27-28=0/4713, 26-27=0/4713, 25-26=0/4713, 24-25=0/4798, 23-24=0/4198, 22-23=0/3031, 21-22=0/1252
WEBS 2-38=-700/234, 2-37=-307/321, 3-37=-243/423, 3-36=-919/0, 4-36=0/457, 7-33=-1630/0, 7-34=0/1170, 6-34=-1227/0, 6-35=0/1301, 5-35=-695/0, 9-33=-2376/0, 9-32=0/1940, 10-32=-1917/0, 10-30=0/1499, 11-30=-1465/0, 11-29=0/1063, 13-29=-1019/0, 13-28=0/697, 14-28=-827/0, 19-21=-1771/0, 19-22=0/1341, 18-22=-1304/0, 18-23=0/884, 17-23=-851/0, 17-24=0/460, 16-24=-433/0, 15-25=-221/423, 15-26=-388/95, 14-27=-78/404

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 38.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173850
PRYOR-F4A	F27G	FLOOR GIRDER	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Thu Feb 10 16:13:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CL9lYZLfqKRCJq5cBjT1MuO33EkPM9kDKR53ebzmUhj

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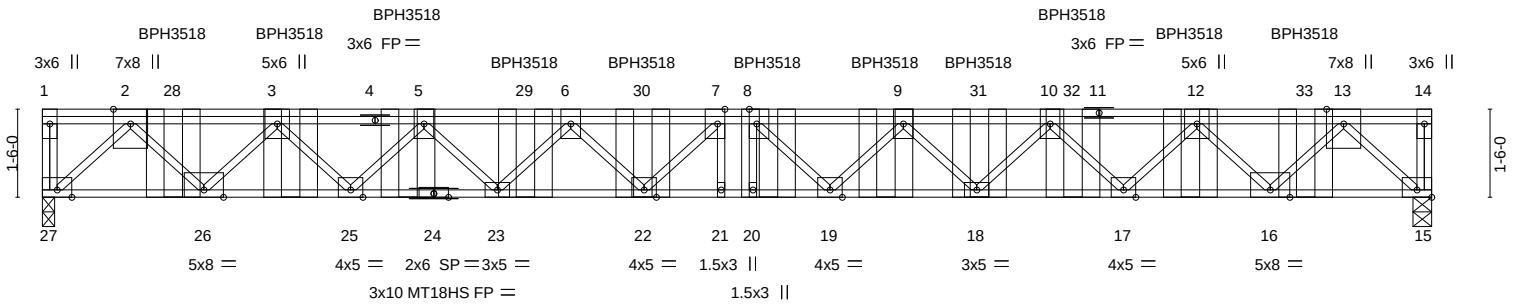

23-8-0
23-8-0

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [8:0-3-0,Edge], [15:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.49	21	>578	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.71	21	>393	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.14	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 161 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-27,14-15: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 26-27,25-26.

REACTIONS. (size) 27=0-2-8, 15=0-3-13
Max Uplift 15=-575(LC 9)
Max Grav 27=1813(LC 14), 15=1693(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-3199/0, 3-28=-3199/0, 3-4=-5479/70, 4-5=-5479/70, 5-29=-6968/574, 6-29=-6968/574, 6-30=-7639/1441, 7-30=-7639/1441, 7-8=-7736/2067, 8-9=-7443/2522, 9-31=-6567/2856, 10-31=-6567/2856, 10-32=-5079/2395, 11-32=-5079/2395, 11-12=-5079/2395, 12-33=-2957/1300, 13-33=-2957/1300
BOT CHORD 26-27=0/1839, 25-26=0/4532, 24-25=-264/6403, 23-24=-264/6403, 22-23=-905/7512, 21-22=-2067/7736, 20-21=-2067/7736, 19-20=-2067/7736, 18-19=-2933/7148, 17-18=-2811/5962, 16-17=-2008/4175, 15-16=-620/1713
WEBS 2-27=-2543/0, 2-26=0/1972, 3-26=-1933/38, 3-25=-247/1373, 5-25=-1340/281, 5-23=-476/819, 6-23=-788/498, 6-22=-1157/185, 7-22=-137/1331, 7-21=-386/0, 13-15=-2368/857, 13-16=-986/1804, 12-16=-1765/1027, 12-17=-720/1312, 10-17=-1279/752, 10-18=-66/878, 9-18=-843/110, 9-19=0/1024, 8-19=-1139/0, 8-20=0/401

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 4x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 27.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 15.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 13, 14, 15 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
11) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 11-3-8 oc max. starting at 2-2-12 from the left end to 21-6-4 to connect truss(es) to back face of top chord.
12) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-4-7 from the left end to 19-6-11 to connect truss(es) to back face of top chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A) I50173850
PRYOR-F4A	F27G	FLOOR GIRDER	1	1	Job Reference (optional)

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-27=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 3=-77(B) 5=-77(B) 12=103(B) 9=103(B) 8=103(B) 28=-77(B) 29=-77(B) 30=-77(B) 31=103(B) 32=103(B) 33=-77(B)
13) Reversal: User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-27=-10(F), 1-14=-120(F)
   Concentrated Loads (lb)
   Vert: 3=-77(B) 5=-77(B) 12=394(B) 9=394(B) 8=394(B) 28=-77(B) 29=-77(B) 30=-77(B) 31=394(B) 32=394(B) 33=-77(B)
14) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-27=-10(F), 1-14=-120(F)
   Concentrated Loads (lb)
   Vert: 3=-77(B) 5=-77(B) 28=-77(B) 29=-77(B) 30=-77(B) 33=-77(B)
15) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-27=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 3=-77(B) 5=-77(B) 28=-77(B) 29=-77(B) 30=-77(B) 33=-77(B)

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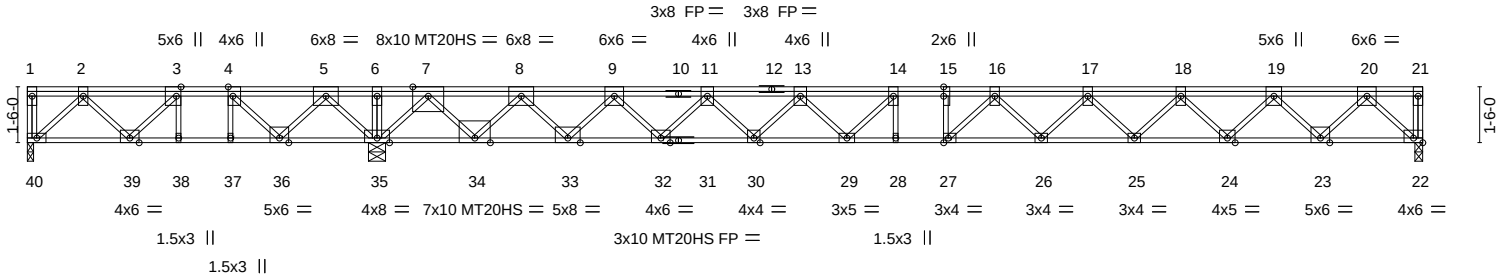
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F28	FLOOR	2	1	I50173851
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:27 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-59z3Nyot80F6Mi6WWWuR7GXEEVqCGATdNmbRyOzmZ62

1-3-0 1-3-4 1-2-11

Scale = 1:61.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-12 37-5-15
9-4-12 28-1-3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,0-0-0], [22:Edge,0-1-8], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.45	27	>746	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.73	26-27	>462	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 251 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
31-40: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,3-38,4-37,14-28,15-27,6-35: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-15 oc bracing.

REACTIONS. (size) 40=0-2-0, 35=0-5-8, 22=0-2-8
Max Uplift 40=-611(LC 4)
Max Grav 40=249(LC 3), 35=3571(LC 1), 22=1539(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-79/1455, 3-4=0/2544, 4-5=0/3816, 5-6=0/5987, 6-7=0/5987, 7-8=0/2267, 8-9=-914/0, 9-11=-3309/0, 11-13=-5092/0, 13-14=-6282/0, 14-15=-6774/0, 15-16=-6774/0, 16-17=-6730/0, 17-18=-5999/0, 18-19=-4656/0, 19-20=-2693/0
BOT CHORD 39-40=-546/251, 38-39=-2544/0, 37-38=-2544/0, 36-37=-2544/0, 35-36=-4933/0, 34-35=-3950/0, 33-34=-820/0, 32-33=0/2247, 30-32=0/4348, 29-30=0/5810, 28-29=0/6774, 27-28=0/6774, 26-27=0/6916, 25-26=0/6509, 24-25=0/5468, 23-24=0/3821, 22-23=0/1537
WEBS 2-40=-347/754, 2-39=-1319/0, 3-39=0/1540, 3-38=-289/0, 5-35=-1735/0, 5-36=0/1870, 4-36=-2061/0, 4-37=0/315, 20-22=-2125/0, 20-23=0/1676, 19-23=-1637/0, 19-24=0/1210, 18-24=-1177/0, 18-25=0/770, 17-25=-740/0, 17-26=0/412, 16-26=-386/0, 16-27=-635/384, 7-35=-2815/0, 7-34=0/2441, 8-34=-2419/0, 8-33=0/1987, 9-33=-1950/0, 9-32=0/1551, 11-32=-1518/0, 11-30=0/1089, 13-30=-1052/0, 13-29=0/872, 14-29=-930/0, 15-27=-222/384, 6-35=-382/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 40.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F30	Floor	5	1	I50173852
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:30 2022 Page 1
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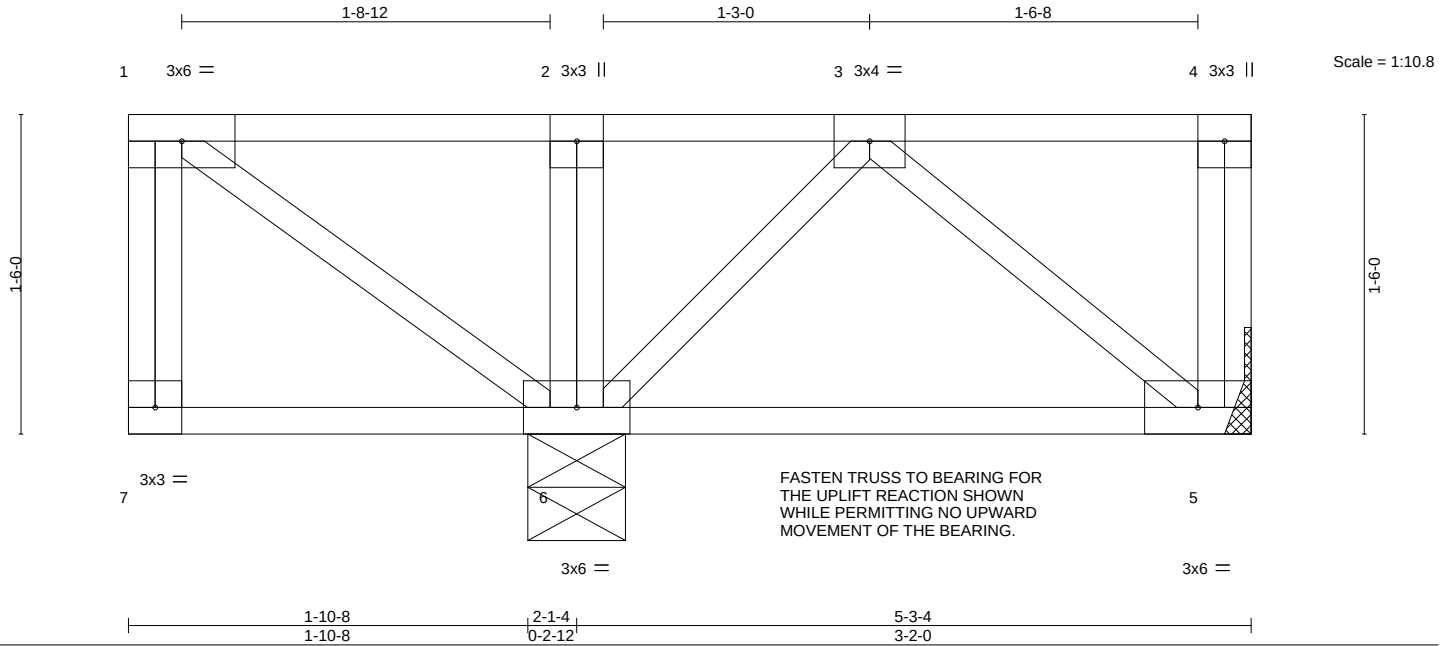

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-394(LC 3)
Max Grav 5=17(LC 4), 6=1525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-528/0
WEBS 1-6=-1220/0, 3-6=-778/0, 3-5=0/685

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 394 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F31	Floor	6	1	I50173853
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:31 2022 Page 1
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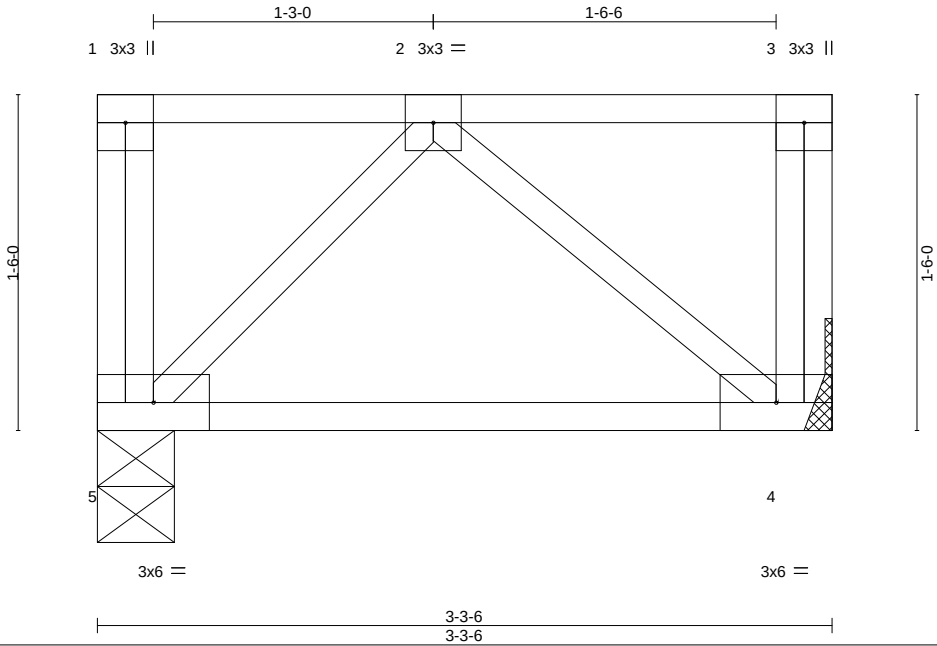

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-2, 4=Mechanical
Max Grav 5=197(LC 1), 4=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F32	Floor	2	1	I50173854
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:32 2022 Page 1
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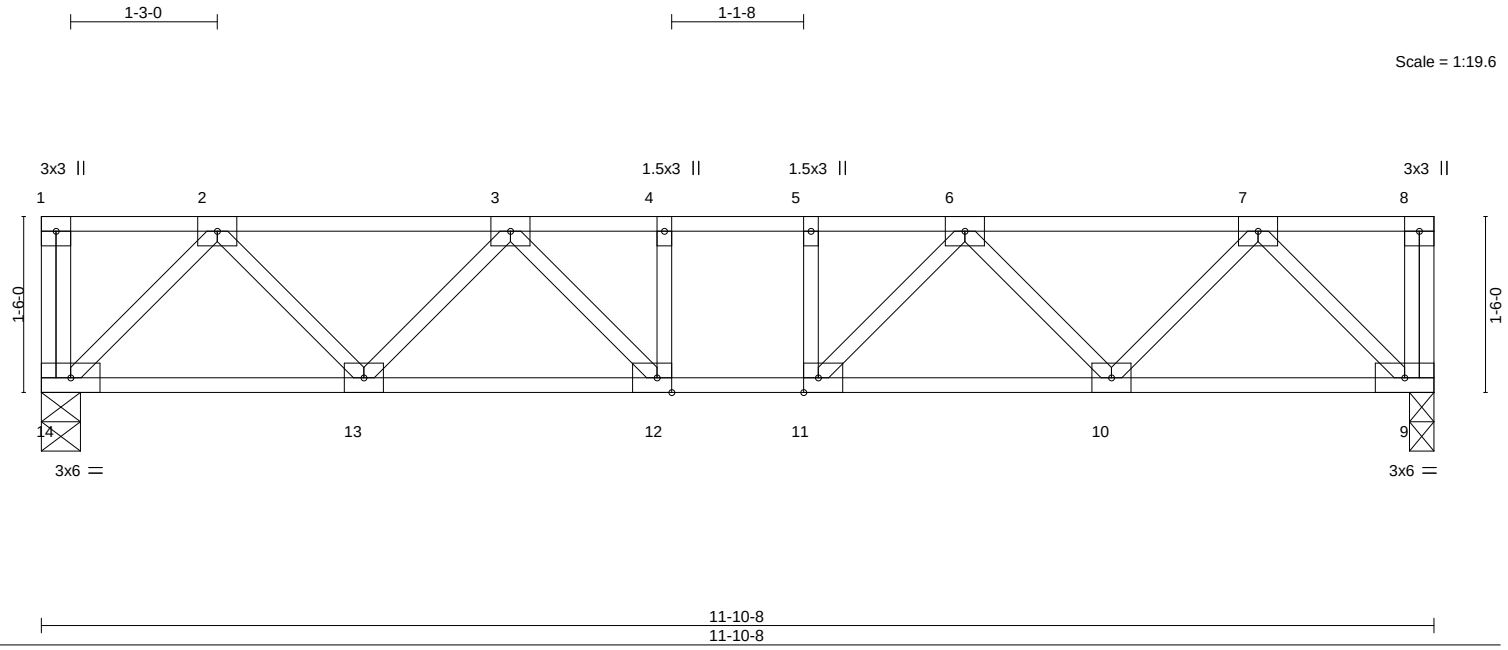

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=756(LC 1), 9=756(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1088/0, 3-4=-1582/0, 4-5=-1582/0, 5-6=-1582/0, 6-7=-1088/0
BOT CHORD 13-14=0/700, 12-13=0/1450, 11-12=0/1582, 10-11=0/1450, 9-10=0/700
WEBS 2-14=-989/0, 2-13=0/578, 3-13=-538/0, 3-12=0/342, 7-9=-989/0, 7-10=0/578, 6-10=-538/0, 6-11=0/342

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F33	FLOOR	5	1	I50173855
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:33 2022 Page 1
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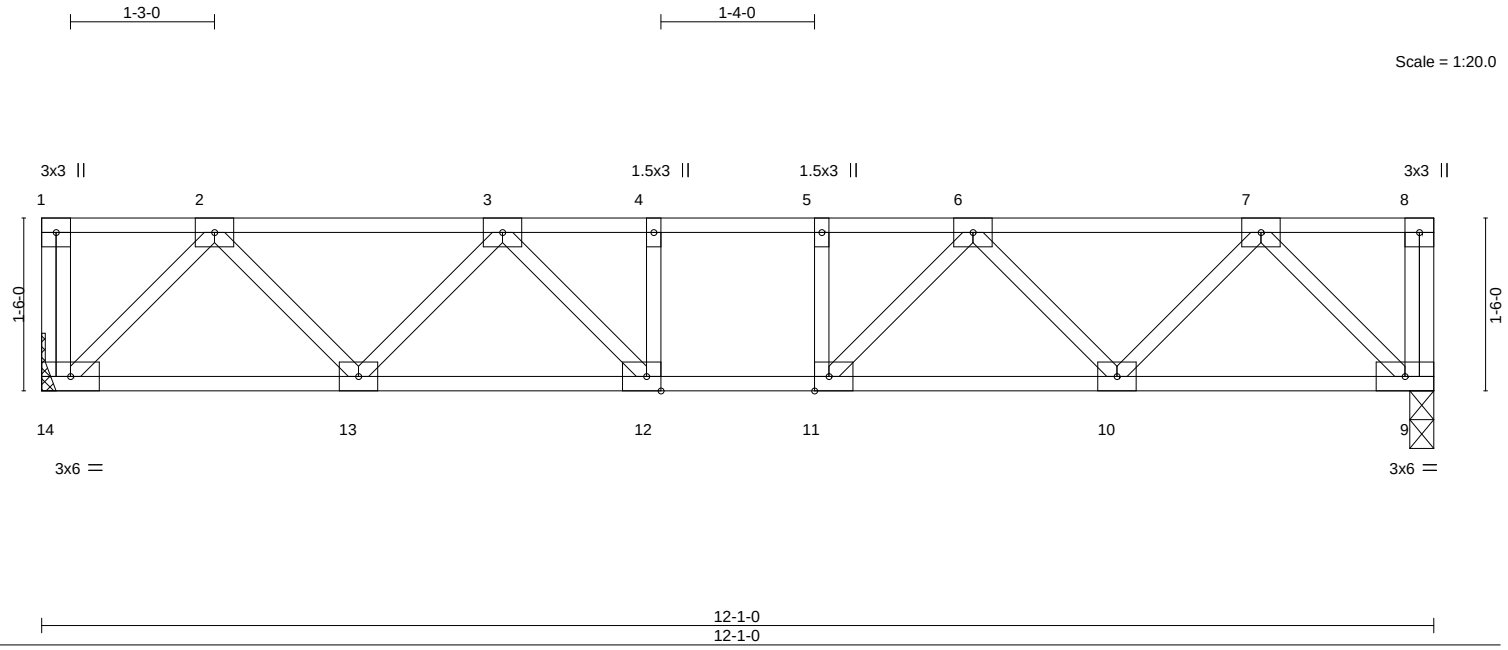

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-2-8
Max Grav 14=769(LC 1), 9=769(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1114/0, 3-4=-1636/0, 4-5=-1636/0, 5-6=-1636/0, 6-7=-1114/0
BOT CHORD 13-14=0/713, 12-13=0/1488, 11-12=0/1636, 10-11=0/1488, 9-10=0/713
WEBS 2-14=-1009/0, 2-13=0/596, 3-13=-556/0, 3-12=0/373, 7-9=-1009/0, 7-10=0/596, 6-10=-556/0, 6-11=0/373

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

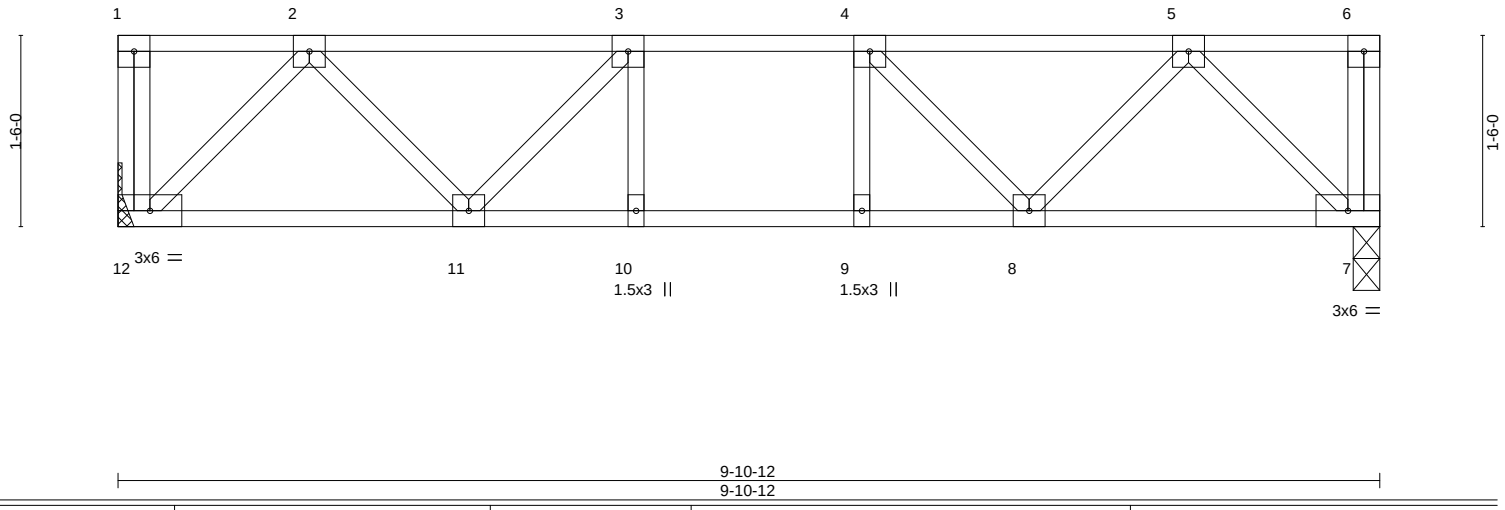
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F34	FLOOR	2	1	I50173856
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:34 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-OWuirLuGUA77in8sQUW4vkJVQKI6PSwf_LoIhVzmZ5x

1-3-0 1-7-12

Scale = 1:18.1



9-10-12
9-10-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-2-8
Max Grav 12=627(LC 1), 7=627(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-840/0, 3-4=-1096/0, 4-5=-840/0
BOT CHORD	11-12=0/573, 10-11=0/1096, 9-10=0/1096, 8-9=0/1096, 7-8=0/573
WEBS	2-12=-811/0, 2-11=0/397, 3-11=-399/0, 5-7=-811/0, 5-8=0/397, 4-8=-399/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F35	Floor	5	1	I50173857 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:37 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-o5arUNw9n5ViZFtR5c3nXNxxsXEIclu5gJ0yIpzmZ5u

1-3-0 1-5-4 1-2-0

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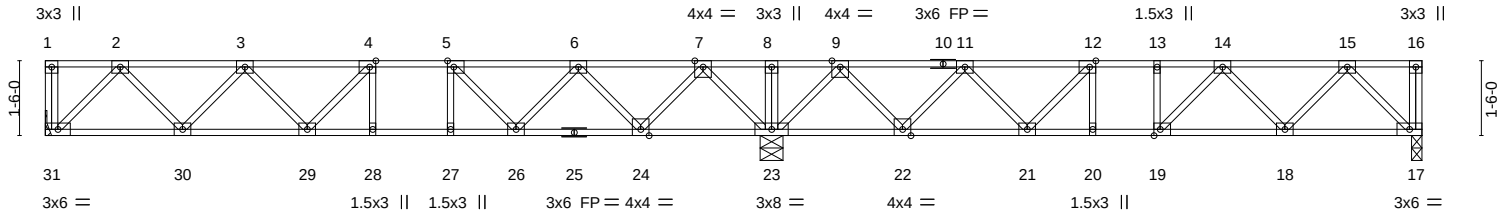

14-6-12 27-7-4
14-6-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.09	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.14	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=823(LC 3), 17=717(LC 4), 23=2124(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1222/0, 3-4=-1792/0, 4-5=-1854/0, 5-6=-1444/0, 6-7=-449/386, 7-8=0/1691, 8-9=0/1691, 9-11=-333/481, 11-12=-1164/10, 12-13=-1427/0, 13-14=-1427/0, 14-15=-1015/0
BOT CHORD 30-31=0/758, 29-30=0/1665, 28-29=0/1854, 27-28=0/1854, 26-27=0/1854, 24-26=-94/1085, 23-24=-767/0, 22-23=-800/0, 21-22=-203/895, 20-21=0/1427, 19-20=0/1427, 18-19=0/1342, 17-18=0/660
WEBS 2-31=-1072/0, 2-30=0/689, 3-30=-658/0, 7-23=-1451/0, 7-24=0/1048, 6-24=-1006/0, 6-26=0/604, 5-26=-743/0, 5-27=0/285, 4-28=-261/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/493, 12-21=-562/0, 15-17=-934/0, 15-18=0/527, 14-18=-486/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F36	Floor	1	1	I50173858
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:40 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CgF_6Py140tGQic0nkdU9?ZS3lGzp5eYMHFdv8zmZ5r

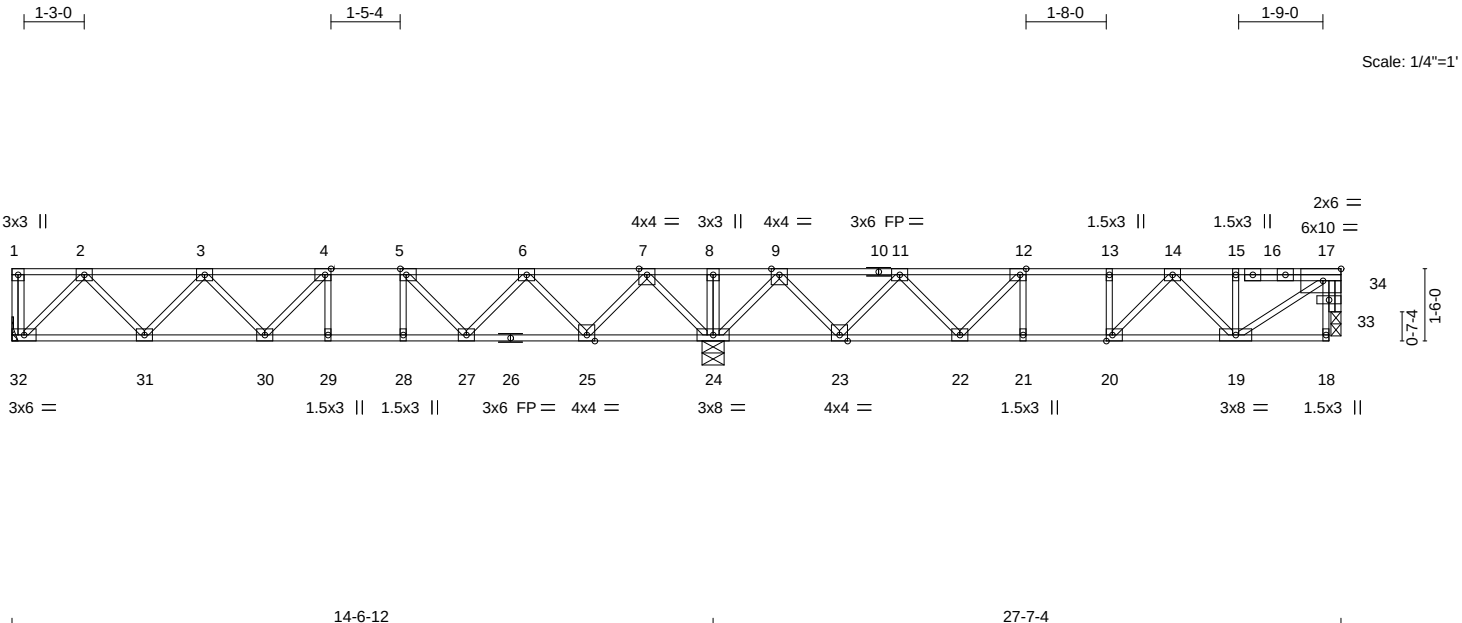

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.09	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.14	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=830(LC 3), 24=2114(LC 1), 34=691(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1236/0, 3-4=-1820/0, 4-5=-1894/0, 5-6=-1495/0, 6-7=-513/404, 7-8=0/1700, 8-9=0/1700, 9-11=-313/419, 11-12=-1146/0, 12-13=-1406/0, 13-14=-1406/0, 14-15=-875/0, 15-17=-878/0
BOT CHORD	31-32=0/766, 30-31=0/1685, 29-30=0/1894, 28-29=0/1894, 27-28=0/1894, 25-27=-110/1143, 24-25=-731/0, 23-24=-825/0, 22-23=-150/876, 21-22=0/1406, 20-21=0/1406, 19-20=0/1212
WEBS	2-32=-1083/0, 2-31=0/699, 3-31=-668/0, 4-29=-262/0, 7-24=-1452/0, 7-25=0/1049, 6-25=-1007/0, 6-27=0/606, 5-27=-744/0, 5-28=0/285, 9-24=-1328/0, 9-23=0/936, 11-23=-902/0, 11-22=0/483, 12-22=-554/0, 17-19=0/966, 14-19=-488/0, 14-20=-57/281, 17-34=-711/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F37	Floor	1	1	I50173859
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dEx6kQ?wNxGrHAKbStABneBzCyEf0SR_2FTHWTzmZ5o

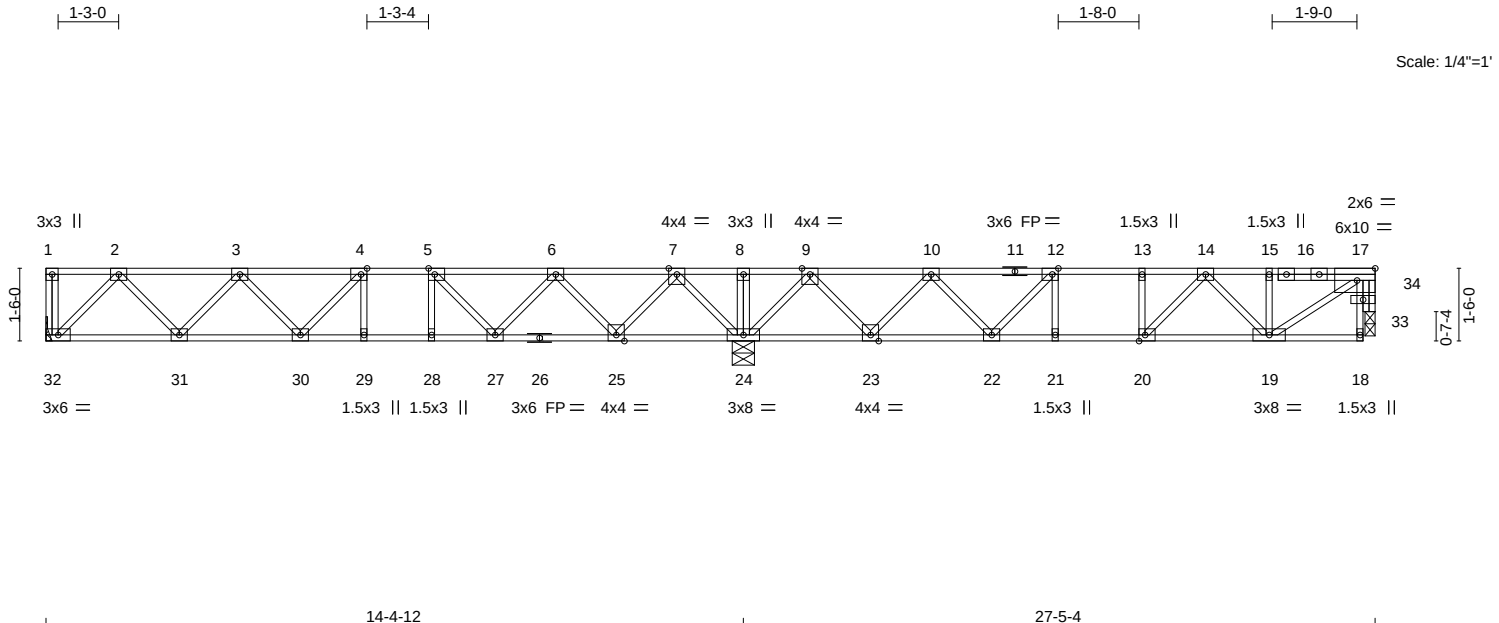

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.08	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=816(LC 3), 24=2111(LC 1), 34=689(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1210/0, 3-4=-1767/0, 4-5=-1831/0, 5-6=-1446/0, 6-7=-477/423, 7-8=0/1729, 8-9=0/1729, 9-10=-299/436, 10-12=-1136/0, 12-13=-1398/0, 13-14=-1398/0, 14-15=-872/0, 15-17=-876/0
BOT CHORD	31-32=0/752, 30-31=0/1646, 29-30=0/1831, 28-29=0/1831, 27-28=0/1831, 25-27=-130/1102, 24-25=-743/0, 23-24=-851/0, 22-23=-166/864, 21-22=0/1398, 20-21=0/1398, 19-20=0/1207
WEBS	2-32=-1063/0, 2-31=0/681, 3-31=-648/0, 7-24=-1443/0, 7-25=0/1041, 6-25=-1000/0, 6-27=0/597, 5-27=-719/0, 5-28=0/271, 17-19=0/963, 14-19=-485/0, 14-20=-62/277, 9-24=-1333/0, 9-23=0/940, 10-23=-905/0, 10-22=0/488, 12-22=-559/0, 17-34=-709/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F38	Floor	1	1	I50173860 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:45 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Zd3t960AvYWZWTU_ZHDfs2GIgmzBUM9HWZyNaMzmZ5m

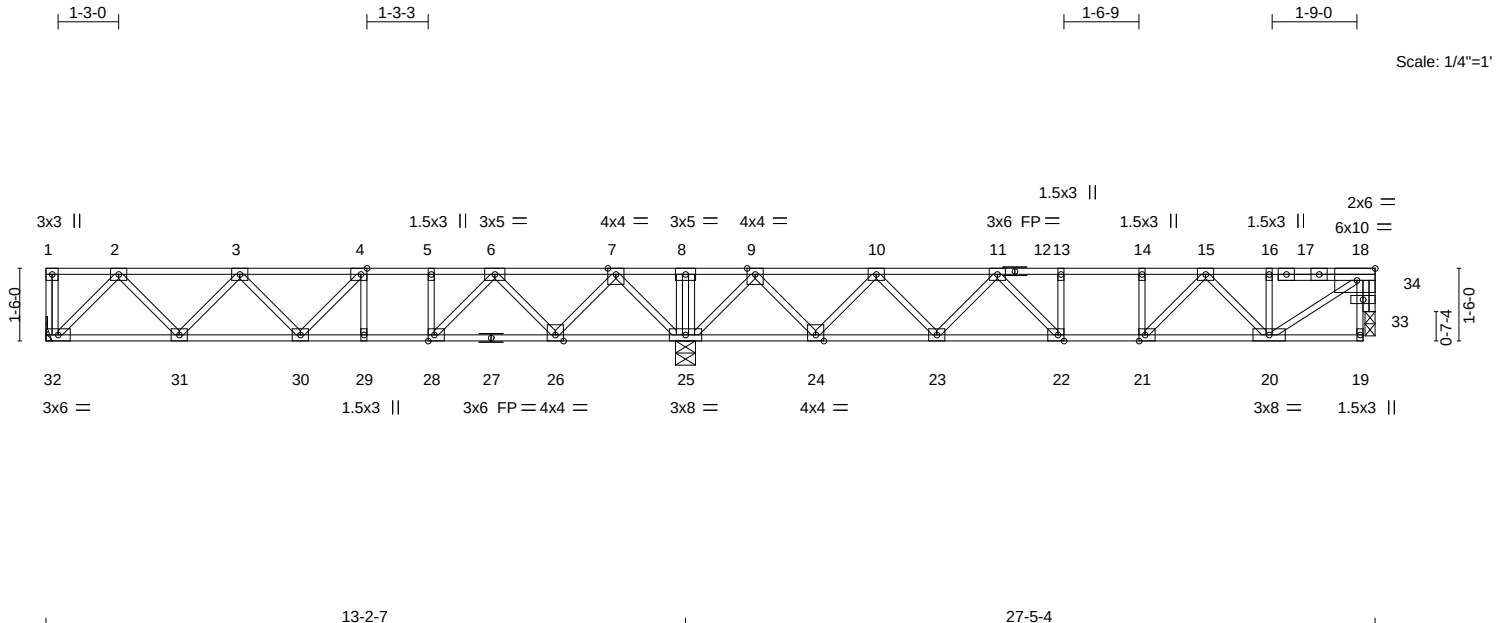

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.08	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-28,25-26,24-25.

REACTIONS. (size) 32=Mechanical, 25=0-4-15, 34=0-2-8
Max Grav 32=748(LC 3), 25=2109(LC 1), 34=760(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1079/0, 3-4=-1512/0, 4-5=-1465/0, 5-6=-1465/0, 6-7=-502/604, 7-8=0/1669, 8-9=0/1669, 9-10=-309/237, 10-11=-1293/0, 11-13=-1676/0, 13-14=-1676/0, 14-15=-1676/0, 15-16=-975/0, 16-18=-979/0
BOT CHORD	31-32=0/681, 30-31=0/1459, 29-30=0/1465, 28-29=0/1465, 26-28=-290/1060, 25-26=-909/0, 24-25=-692/0, 23-24=0/945, 22-23=0/1605, 21-22=0/1676, 20-21=0/1377
WEBS	2-32=-964/0, 2-31=0/591, 3-31=-565/0, 4-30=0/346, 4-29=-305/0, 7-25=-1363/0, 7-26=0/902, 6-26=-945/0, 6-28=0/823, 5-28=-337/0, 18-20=0/1081, 15-20=-582/0, 15-21=0/442, 14-21=-259/0, 9-25=-1440/0, 9-24=0/1012, 10-24=-987/0, 10-23=0/556, 11-23=-510/0, 11-22=0/379, 18-34=-781/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F39	Floor	1	1	I50173861 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:47 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-V0Bdao2QQ9mHlneMhiF7xTMe7ZgvyEAZztRUfEzmZ5k

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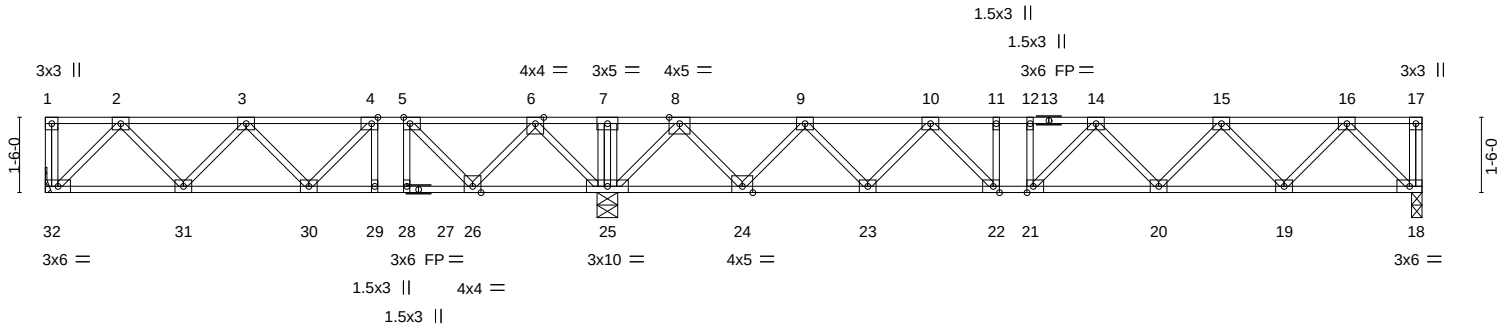

11-2-7 27-5-4
11-2-7 16-2-13

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.10	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.16	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 18=0-2-8, 25=0-4-15
Max Grav 32=583(LC 3), 18=893(LC 4), 25=2207(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-766/27, 3-4=-901/289, 4-5=-736/559, 5-6=-202/963, 6-7=0/2069, 7-8=0/2069, 8-9=-177/283, 9-10=-1423/0, 10-11=-2161/0, 11-12=-2161/0, 12-14=-2161/0, 14-15=-2064/0, 15-16=-1353/0
BOT CHORD 31-32=0/519, 30-31=-99/991, 29-30=-559/736, 28-29=-559/736, 26-28=-559/736, 25-26=-1317/0, 24-25=-882/0, 23-24=0/947, 22-23=0/1886, 21-22=0/2161, 20-21=0/2243, 19-20=0/1851, 18-19=0/832
WEBS 2-32=-734/0, 2-31=-74/367, 3-31=-335/107, 3-30=-364/0, 4-30=0/535, 4-29=-392/0, 6-25=-1273/0, 6-26=0/887, 5-26=-987/0, 5-28=0/406, 16-18=-1176/0, 16-19=0/775, 15-19=-741/0, 15-20=0/316, 14-20=-266/0, 8-25=-1642/0, 8-24=0/1210, 9-24=-1179/0, 9-23=0/741, 10-23=-723/0, 10-22=0/574, 14-21=-335/104, 11-22=-276/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F40	Floor	1	1	I50173862 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:51 2022 Page 1
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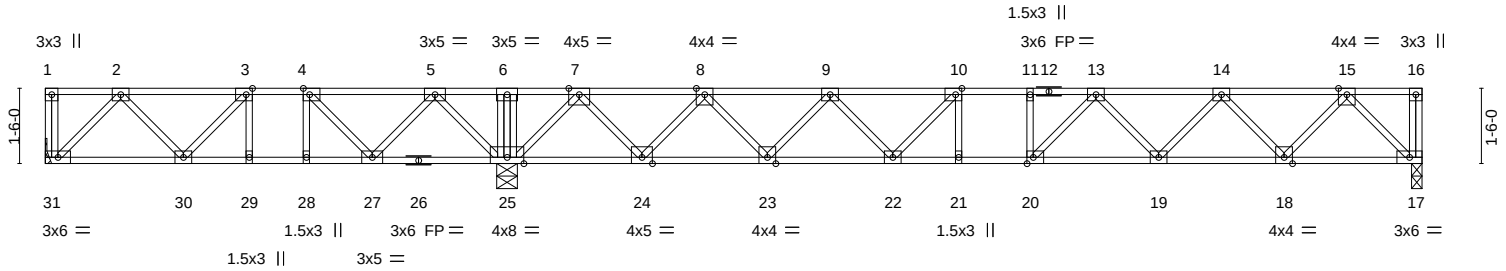

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-2-7 27-5-4
9-2-7 18-2-13

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.15	20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.25	20	>869	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 25=0-4-15
Max Uplift 31=-85(LC 4)
Max Grav 31=440(LC 3), 17=1024(LC 7), 25=2269(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-481/298, 3-4=-498/641, 4-5=-82/1142, 5-6=0/2238, 6-7=0/2238, 8-9=-1703/0, 9-10=-2591/0, 10-11=-2906/0, 11-13=-2906/0, 13-14=-2547/0, 14-15=-1602/0
BOT CHORD 30-31=-86/398, 29-30=-641/498, 28-29=-641/498, 27-28=-641/498, 25-27=-1542/0, 24-25=-922/0, 23-24=0/1096, 22-23=0/2284, 21-22=0/2906, 20-21=0/2906, 19-20=0/2846, 18-19=0/2218, 17-18=0/962
WEBS 2-31=-563/122, 2-30=-315/123, 3-30=-24/496, 5-25=-1180/0, 5-27=0/818, 4-27=-964/0, 4-28=0/377, 3-29=-358/0, 7-25=-1821/0, 7-24=0/1370, 8-24=-1345/0, 8-23=0/927, 9-23=-887/0, 9-22=0/526, 10-22=-614/0, 15-17=-1360/0, 15-18=0/951, 14-18=-916/0, 14-19=0/489, 13-19=-446/0, 13-20=-193/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 31.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F41	Floor	1	1	I50173863
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:53 2022 Page 1
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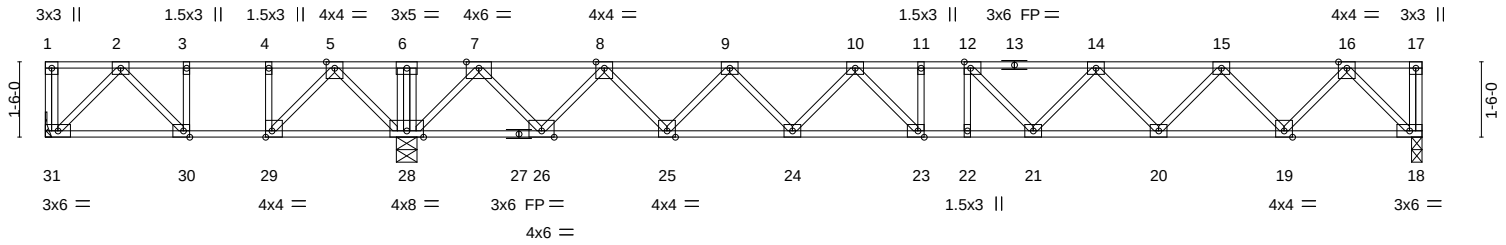

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-2-7 27-5-4
7-2-7 20-2-13

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.22	22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.35	22	>685	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 18-27: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 18=0-2-8, 28=0-4-15
Max Uplift 31=-175(LC 4)
Max Grav 31=310(LC 3), 18=1188(LC 7), 28=2258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-195/671, 3-4=-195/671, 4-5=-195/671, 5-6=0/1927, 6-7=0/1927, 7-8=-679/0, 8-9=-2341/0, 9-10=-3400/0, 10-11=-3943/0, 11-12=-3943/0, 12-14=-3802/0, 14-15=-3160/0, 15-16=-1914/0
BOT CHORD	29-30=-671/195, 28-29=-1303/0, 26-28=-520/0, 25-26=0/1651, 24-25=0/3011, 23-24=0/3775, 22-23=0/3943, 21-22=0/3943, 20-21=0/3626, 19-20=0/2675, 18-19=0/1128
WEBS	2-31=-328/289, 2-30=-675/0, 3-30=0/379, 5-28=-1021/0, 5-29=0/1100, 4-29=-632/0, 7-28=-1946/0, 7-26=0/1512, 8-26=-1465/0, 8-25=0/1047, 9-25=-1014/0, 9-24=0/597, 10-24=-578/0, 10-23=-95/526, 16-18=-1595/0, 16-19=0/1169, 15-19=-1130/0, 15-20=0/722, 14-20=-693/0, 14-21=0/385, 12-21=-404/108

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 31.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F42	Floor	1	1	I50173864
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:55 2022 Page 1
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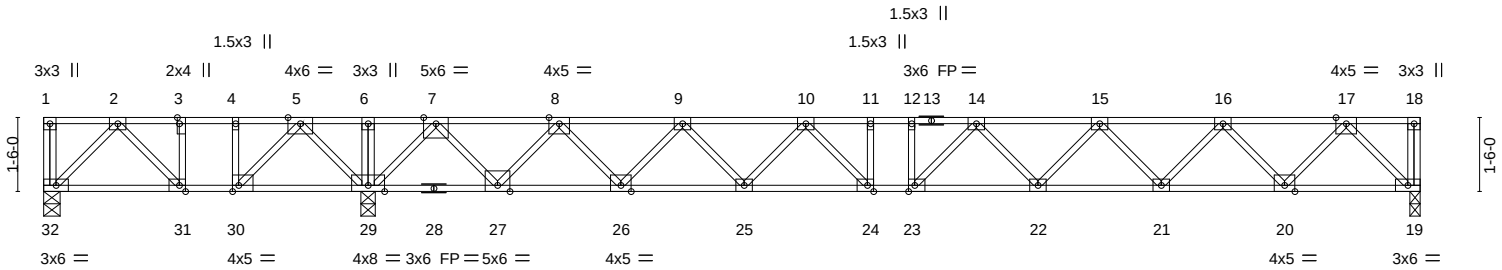

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-6-15 27-10-15
6-6-15 21-4-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.25	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.41	22-23	>621	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-3 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-429(LC 4)
Max Grav 32=178(LC 3), 19=1201(LC 7), 29=2582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1189, 3-4=0/1189, 4-5=0/1189, 5-6=0/2837, 6-7=0/2837, 7-8=-16/336, 8-9=-1801/0, 9-10=-3105/0, 10-11=-3935/0, 11-12=-3935/0, 12-14=-3935/0, 14-15=-3886/0, 15-16=-3207/0, 16-17=-1940/0
BOT CHORD 31-32=-455/103, 30-31=-1189/0, 29-30=-2059/0, 27-29=-1364/0, 26-27=0/985, 25-26=0/2594, 24-25=0/3606, 23-24=0/3935, 22-23=0/4050, 21-22=0/3683, 20-21=0/2713, 19-20=0/1140
WEBS 2-32=-146/643, 2-31=-1063/0, 3-31=0/590, 5-29=-1279/0, 5-30=0/1408, 4-30=-789/0, 7-29=-2084/0, 7-27=0/1690, 8-27=-1642/0, 8-26=0/1225, 9-26=-1191/0, 9-25=0/770, 10-25=-756/0, 10-24=0/694, 11-24=-352/0, 17-19=-1613/0, 17-20=0/1189, 16-20=-1149/0, 16-21=0/734, 15-21=-708/0, 15-22=0/332, 14-22=-303/0, 14-23=-421/213

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F43	FLOOR	3	1	I50173865
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:56 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-klD1Tt94Jwu?KAq5j5vFoNDENCiPZM9u2m7TTDzmZ5b

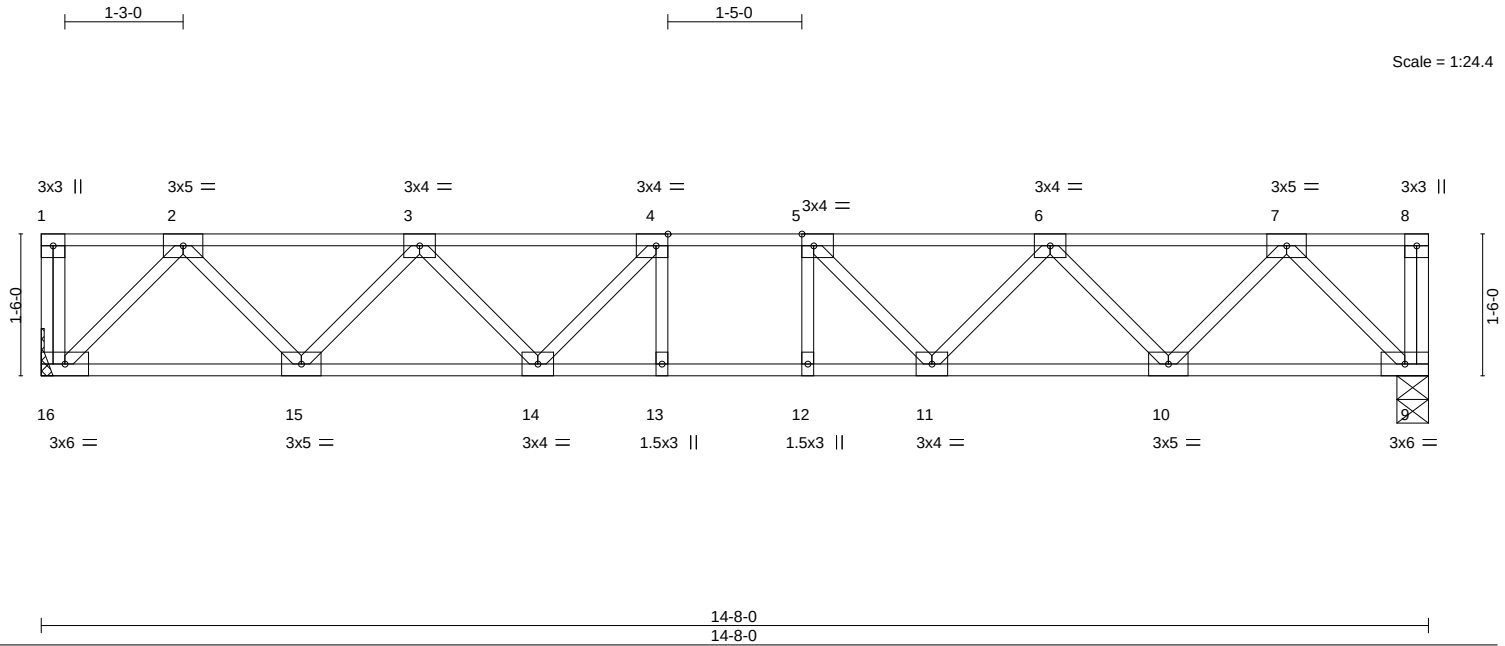

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-4-0
Max Grav 16=937(LC 1), 9=937(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1439/0, 3-4=-2218/0, 4-5=-2453/0, 5-6=-2218/0, 6-7=-1439/0
BOT CHORD 15-16=0/875, 14-15=0/1977, 13-14=0/2453, 12-13=0/2453, 11-12=0/2453, 10-11=0/1977, 9-10=0/875
WEBS 2-16=-1238/0, 2-15=0/838, 3-15=-799/0, 3-14=0/408, 4-14=-477/0, 7-9=-1238/0, 7-10=0/838, 6-10=-799/0, 6-11=0/408, 5-11=-477/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F44	FLOOR	3	1	I50173866
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:57 2022 Page 1
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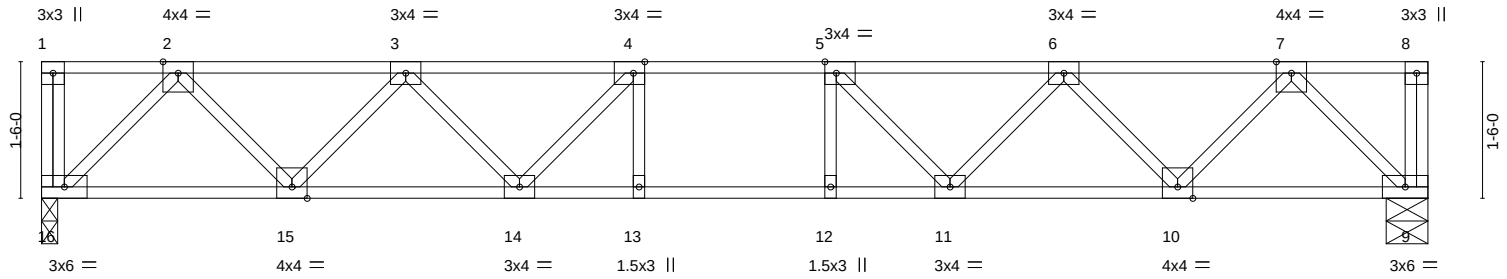

15-2-12
15-2-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.18	13-14	>989	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-5-8
Max Grav 16=974(LC 1), 9=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1508/0, 3-4=-2356/0, 4-5=-2632/0, 5-6=-2356/0, 6-7=-1508/0
BOT CHORD 15-16=0/912, 14-15=0/2077, 13-14=0/2632, 12-13=0/2632, 11-12=0/2632, 10-11=0/2077, 9-10=0/912
WEBS 2-16=-1290/0, 2-15=0/886, 3-15=-846/0, 3-14=0/462, 4-14=-559/0, 7-9=-1290/0, 7-10=0/886, 6-10=-846/0, 6-11=0/462, 5-11=-559/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

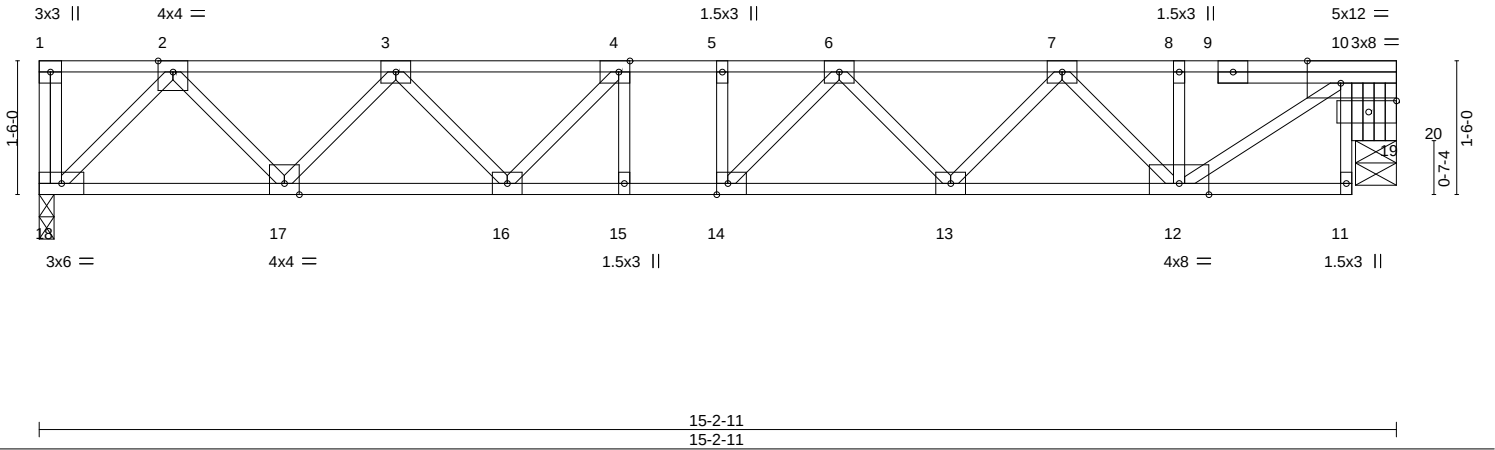
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F45	Floor	3	1	I50173867
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:58 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-h7LnuZAKrX9jaT_UqWxjuoJYL?Qn1FUBV4cZY5zmZ5Z

1-3-0 | 0-11-11 | 1-9-0

Scale = 1:25.8



15-2-11
15-2-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-4-8,Edge], [14:0-1-8,Edge], [20:0-3-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.10	14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.16	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 89 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 10-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 20=0-5-8
Max Grav 18=956(LC 1), 20=934(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1474/0, 3-4=-2289/0, 4-5=-2544/0, 5-6=-2544/0, 6-7=-2165/0, 7-8=-1227/0, 8-10=-1232/0
BOT CHORD	17-18=0/894, 16-17=0/2027, 15-16=0/2544, 14-15=0/2544, 13-14=0/2478, 12-13=0/1828
WEBS	2-18=-1264/0, 2-17=0/862, 3-17=-823/0, 3-16=0/429, 4-16=-474/0, 10-12=0/1363, 7-12=-869/0, 7-13=0/501, 6-13=-465/0, 6-14=-132/331, 10-20=-961/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F46	Floor	1	1	I50173868
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:12:59 2022 Page 1
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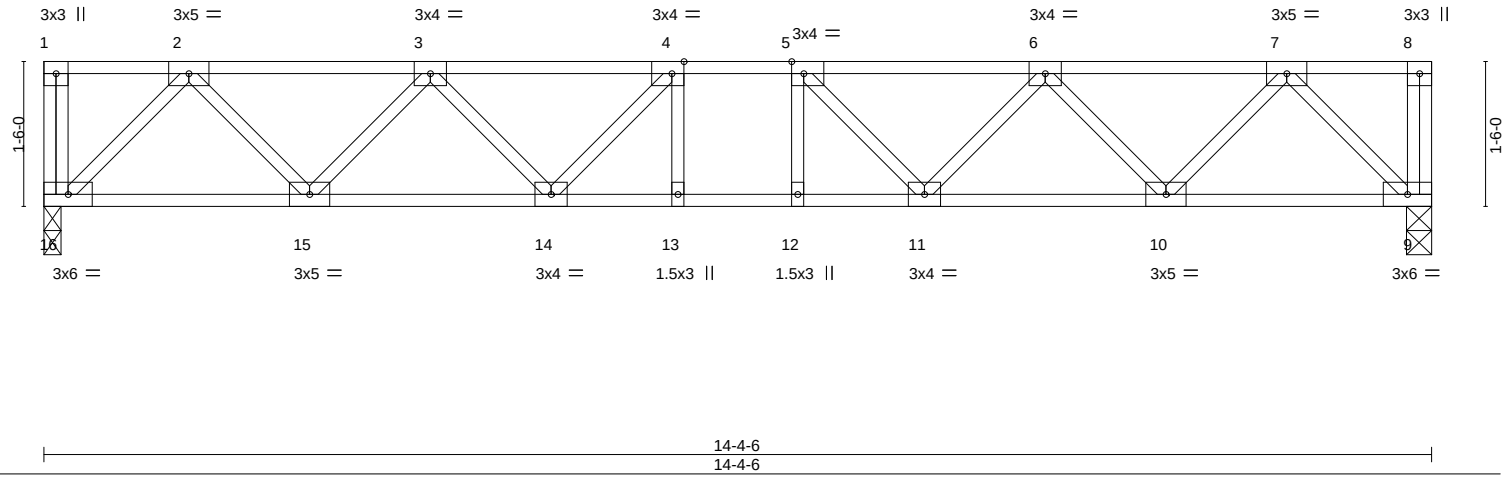
1-3-0 1-1-6

Scale: 1/2"=1'



14-4-6
14-4-6

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-3-2
Max Grav 16=917(LC 1), 9=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1402/0, 3-4=-2145/0, 4-5=-2360/0, 5-6=-2145/0, 6-7=-1402/0
BOT CHORD 15-16=0/855, 14-15=0/1922, 13-14=0/2360, 12-13=0/2360, 11-12=0/2360, 10-11=0/1922, 9-10=0/855
WEBS 2-16=-1210/0, 2-15=0/812, 3-15=-773/0, 3-14=0/379, 4-14=-435/0, 7-9=-1210/0, 7-10=0/812, 6-10=-773/0, 6-11=0/379, 5-11=-435/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F47	Floor	1	1	I50173869
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:01 2022 Page 1
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1-3-0 1-10-13

Scale = 1:21.0

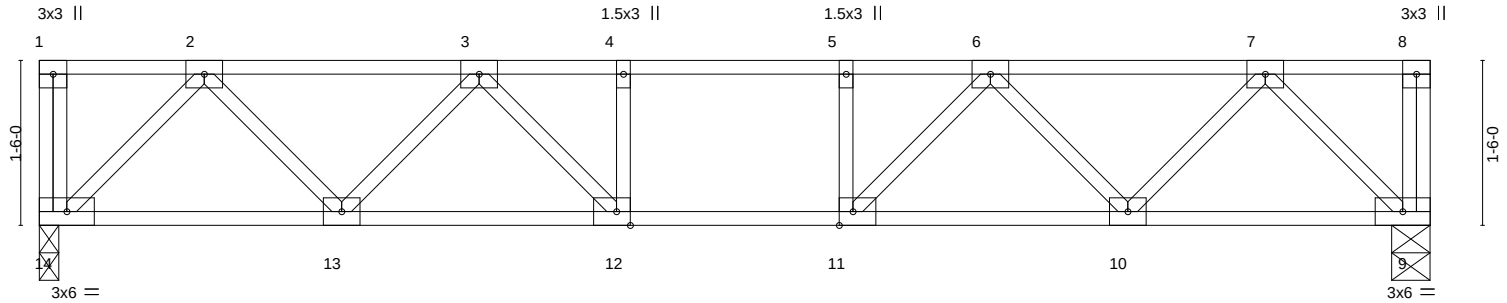

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-4-3
Max Grav 14=806(LC 1), 9=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1183/0, 3-4=-1787/0, 4-5=-1787/0, 5-6=-1787/0, 6-7=-1183/0
BOT CHORD 13-14=0/751, 12-13=0/1589, 11-12=0/1787, 10-11=0/1589, 9-10=0/751
WEBS 2-14=-1061/0, 2-13=0/643, 3-13=-604/0, 3-12=0/459, 7-9=-1061/0, 7-10=0/643, 6-10=-604/0, 6-11=0/459, 5-11=-259/0, 4-12=-259/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F48	FLOOR	4	1	I50173870
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:02 2022 Page 1
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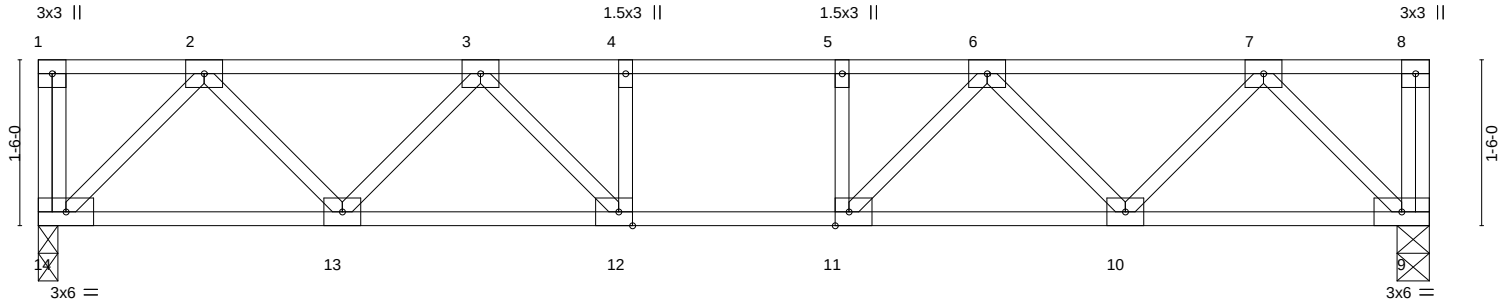

12-7-0
12-7-0

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-3-8
Max Grav 14=802(LC 1), 9=802(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1175/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1175/0
BOT CHORD 13-14=0/746, 12-13=0/1577, 11-12=0/1769, 10-11=0/1577, 9-10=0/746
WEBS 2-14=-1055/0, 2-13=0/638, 3-13=-598/0, 3-12=0/449, 4-12=-252/0, 7-9=-1055/0, 7-10=0/638, 6-10=-598/0, 6-11=0/449, 5-11=-252/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F49	FLOOR	1	1	I50173871
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-158gxGETf4n0gEsRd3Xubr0L404RiS2wfMJKDJzmZ5U

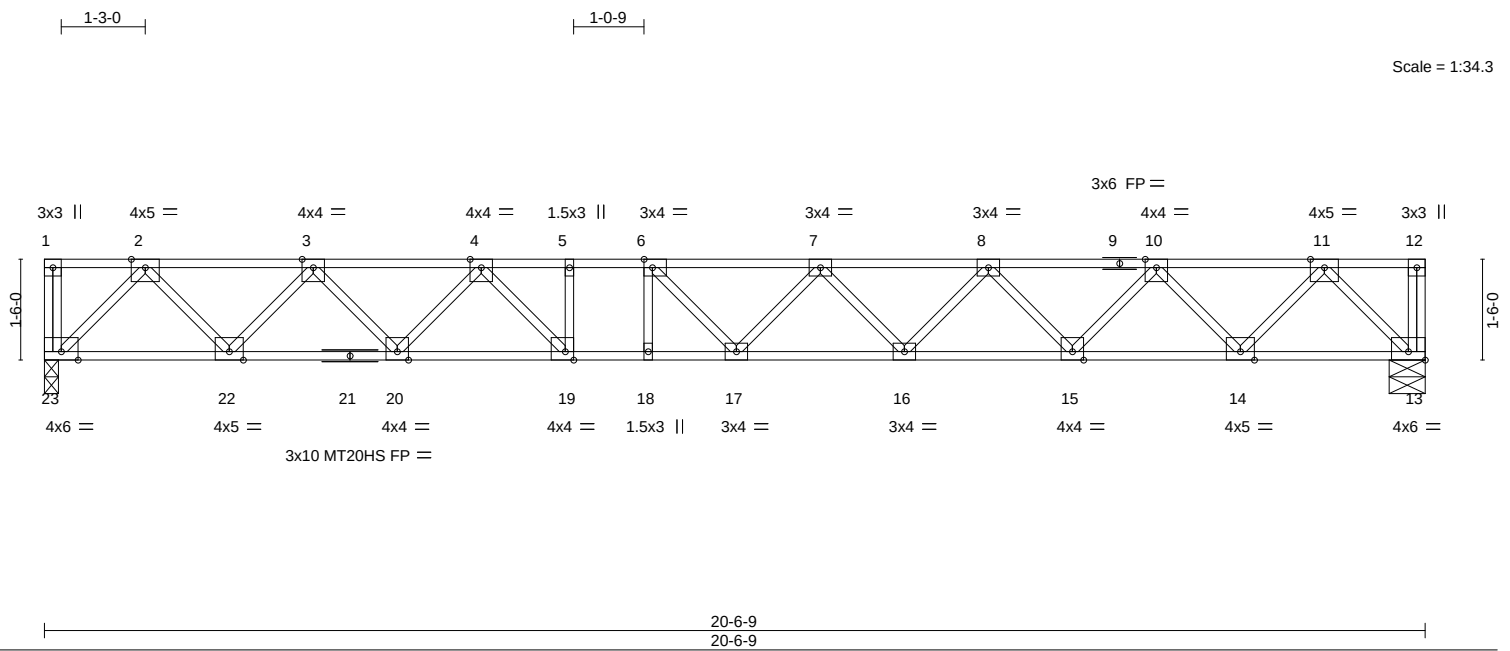

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.29	17-18	>829	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.48	17-18	>512	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-9: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
21-23: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 23=0-2-8, 13=0-6-7
Max Grav 23=1319(LC 1), 13=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2170/0, 3-4=-3625/0, 4-5=-4689/0, 5-6=-4689/0, 6-7=-4826/0, 7-8=-4537/0, 8-10=-3645/0, 10-11=-2164/0
BOT CHORD 22-23=0/1258, 20-22=0/3046, 19-20=0/4225, 18-19=0/4689, 17-18=0/4689, 16-17=0/4843, 15-16=0/4220, 14-15=0/3046, 13-14=0/1257
WEBS 2-23=-1779/0, 2-22=0/1356, 3-22=-1302/0, 3-20=0/861, 4-20=-893/0, 4-19=0/858, 5-19=-322/0, 11-13=-1778/0, 11-14=0/1348, 10-14=-1311/0, 10-15=0/891, 8-15=-855/0, 8-16=0/472, 7-16=-454/0, 6-17=-202/430, 6-18=-351/10

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F50	Floor	1	1	I50173872
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:07 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wsOBneHzjIHR9sACsvcqlhB3ddQVeF0WZ_HYM4zmZ5Q

1-3-0 1-3-12

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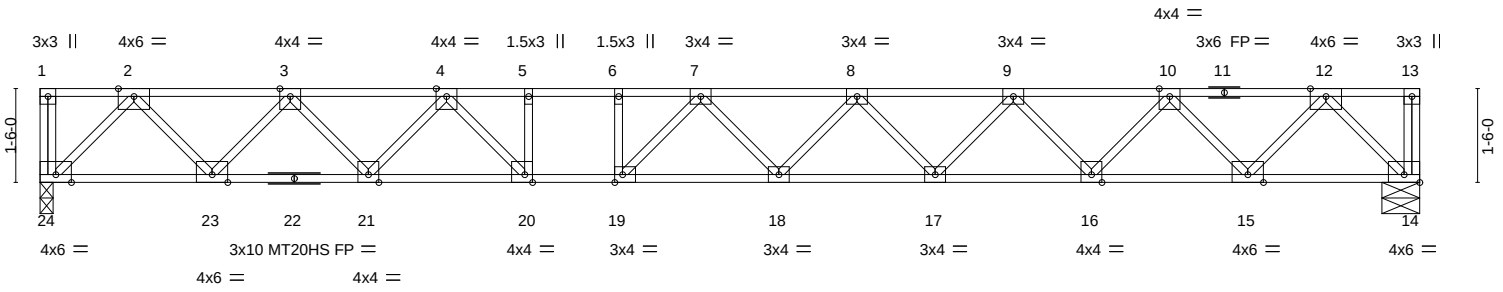

22-0-12
22-0-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.37	18-19	>716	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.60	18-19	>440	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-2-8, 14=0-7-4
Max Grav 24=1418(LC 1), 14=1418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2359/0, 3-4=-3985/0, 4-5=-5301/0, 5-6=-5301/0, 6-7=-5301/0, 7-8=-5581/0, 8-9=-5075/0, 9-10=-4016/0, 10-12=-2352/0
BOT CHORD 23-24=0/1355, 21-23=0/3324, 20-21=0/4675, 19-20=0/5301, 18-19=0/5622, 17-18=0/5462, 16-17=0/4680, 15-16=0/3326, 14-15=0/1355
WEBS 2-24=-1916/0, 2-23=0/1492, 3-23=-1435/0, 3-21=0/982, 4-21=-1027/0, 4-20=0/1094, 5-20=-538/0, 12-14=-1917/0, 12-15=0/1482, 10-15=-1447/0, 10-16=0/1026, 9-16=-987/0, 9-17=0/587, 8-17=-576/0, 8-18=0/274, 7-19=-694/118, 6-19=-82/286

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F51	Floor	1	1	I50173873
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-O2yZ_zIbUcPIn0lPQd73IvjAf1n4Nj7foe15uWzmZ5P

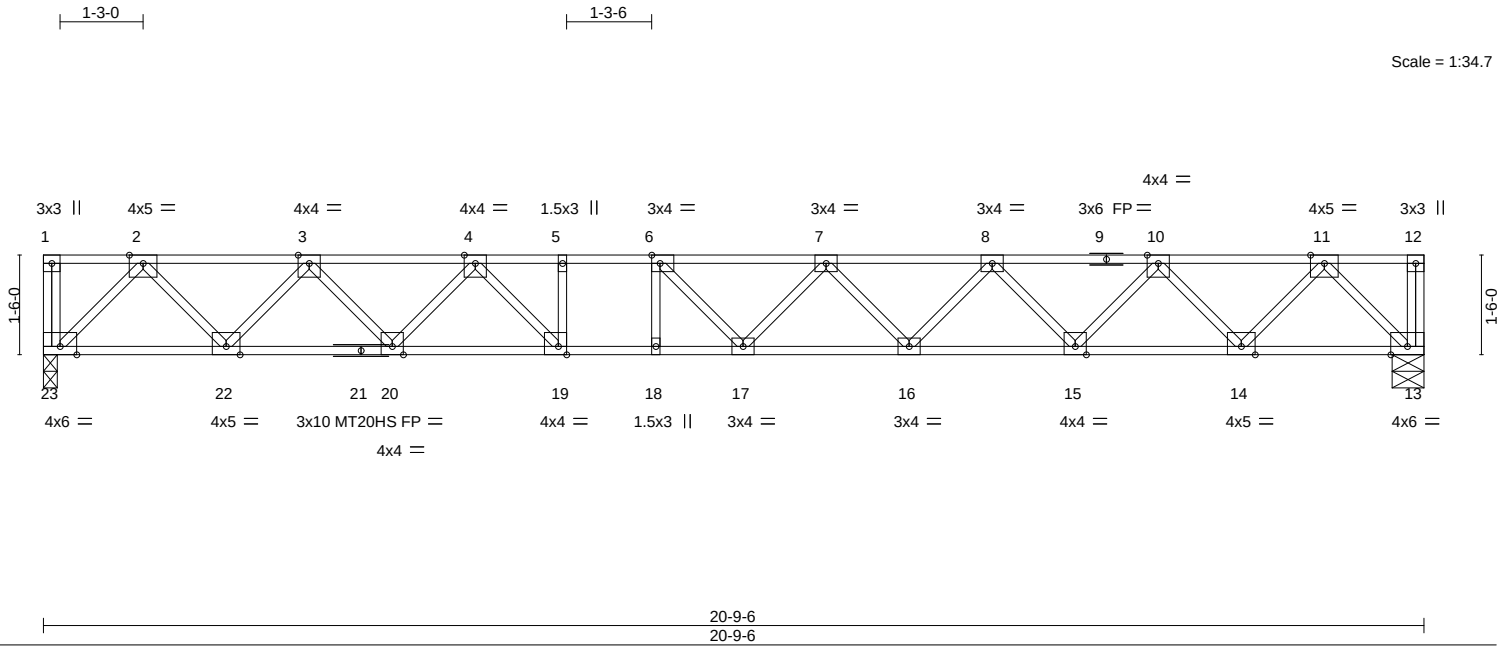

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.32	17-18	>775	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.52	17-18	>478	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-9: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 20-22.

REACTIONS. (size) 23=0-2-8, 13=0-5-12
Max Grav 23=1334(LC 1), 13=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2200/0, 3-4=-3678/0, 4-5=-4797/0, 5-6=-4797/0, 6-7=-4937/0, 7-8=-4622/0, 8-10=-3702/0, 10-11=-2193/0
BOT CHORD 22-23=0/1273, 20-22=0/3088, 19-20=0/4297, 18-19=0/4797, 17-18=0/4797, 16-17=0/4943, 15-16=0/4289, 14-15=0/3089, 13-14=0/1272
WEBS 2-23=-1800/0, 2-22=0/1377, 3-22=-1321/0, 3-20=0/878, 4-20=-920/0, 4-19=0/918, 5-19=-362/0, 11-13=-1800/0, 11-14=0/1368, 10-14=-1332/0, 10-15=0/911, 8-15=-874/0, 8-16=0/494, 7-16=-478/0, 6-17=-221/447, 6-18=-363/12

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F52	Floor	1	1	I50173874
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:10 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KR3JPfJs0Df00JunX19XNKpYwrYbreTyGyWCzPzmZ5N

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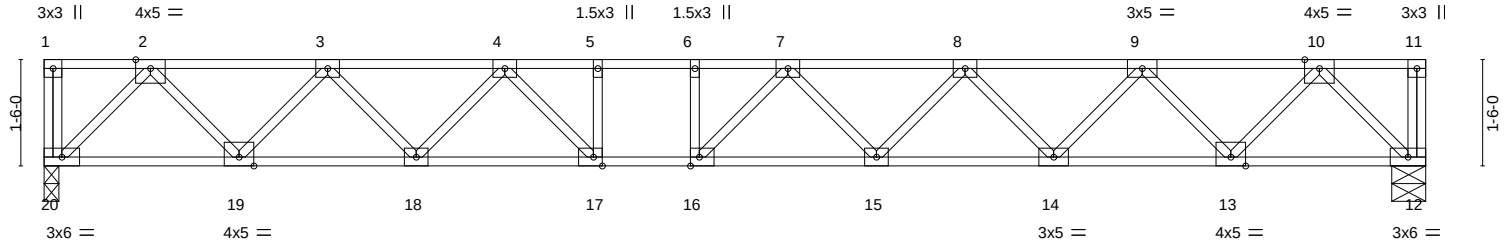

19-5-15
19-5-15

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	15-16	>900	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.42	15-16	>552	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 106 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-8, 12=0-5-12
Max Grav 20=1251(LC 1), 12=1251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2038/0, 3-4=-3375/0, 4-5=-4279/0, 5-6=-4279/0, 6-7=-4279/0, 7-8=-4166/0, 8-9=-3389/0, 9-10=-2035/0
BOT CHORD 19-20=0/1189, 18-19=0/2854, 17-18=0/3904, 16-17=0/4279, 15-16=0/4363, 14-15=0/3914, 13-14=0/2852, 12-13=0/1190
WEBS 2-20=-1682/0, 2-19=0/1262, 3-19=-1214/0, 3-18=0/774, 4-18=-785/0, 4-17=0/754, 5-17=-342/0, 10-12=-1683/0, 10-13=0/1256, 9-13=-1215/0, 9-14=0/799, 8-14=-780/0, 8-15=0/374, 7-15=-351/0, 7-16=-373/280

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F53	Floor	1	1	I50173875
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:11 2022 Page 1
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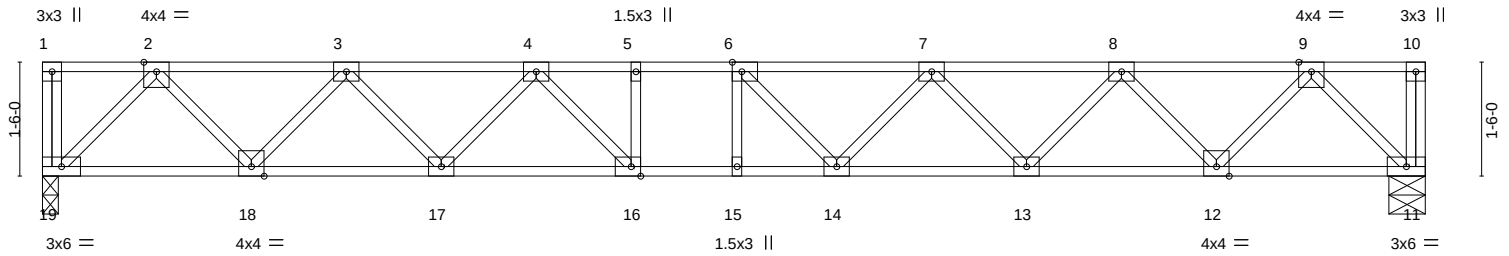

18-2-8
18-2-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.21	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.34	14-15	>638	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 99 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-16,14-15.

REACTIONS. (size) 19=0-2-8, 11=0-5-12
Max Grav 19=1167(LC 1), 11=1167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1878/0, 3-4=-3069/0, 4-5=-3780/0, 5-6=-3780/0, 6-7=-3686/0, 7-8=-3083/0, 8-9=-1874/0
BOT CHORD 18-19=0/1106, 17-18=0/2620, 16-17=0/3516, 15-16=0/3780, 14-15=0/3780, 13-14=0/3534, 12-13=0/2615, 11-12=0/1107
WEBS 2-19=-1564/0, 2-18=0/1148, 3-18=-1103/0, 3-17=0/667, 4-17=-664/0, 4-16=0/610, 9-11=-1566/0, 9-12=0/1141, 8-12=-1101/0, 8-13=0/696, 7-13=-671/0, 7-14=0/362, 6-14=-389/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F54	Floor	1	1	I50173876
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:12 2022 Page 1
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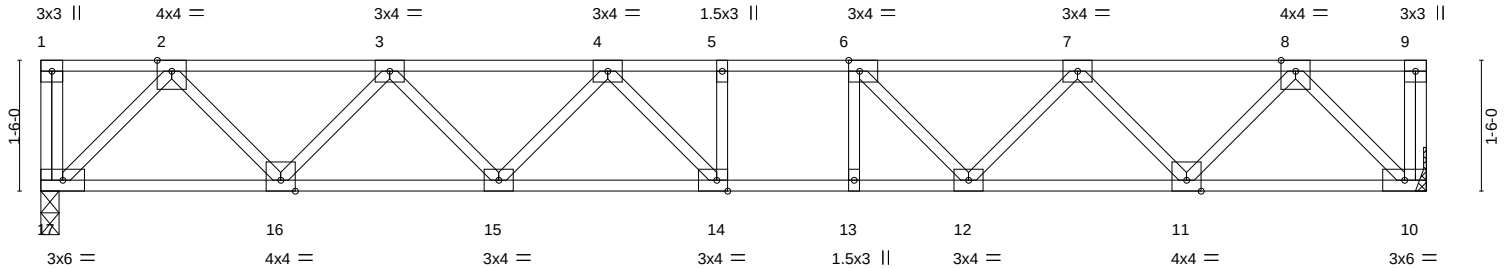

15-10-10
15-10-10

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.13	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.21	14-15	>895	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-2-8, 10=Mechanical
Max Grav 17=1016(LC 1), 10=1016(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1588/0, 3-4=-2522/0, 4-5=-2858/0, 5-6=-2858/0, 6-7=-2516/0, 7-8=-1589/0
BOT CHORD 16-17=0/955, 15-16=0/2198, 14-15=0/2813, 13-14=0/2858, 12-13=0/2858, 11-12=0/2194, 10-11=0/956
WEBS 2-17=-1350/0, 2-16=0/941, 3-16=-907/0, 3-15=0/481, 4-15=-432/0, 4-14=-165/346, 8-10=-1352/0, 8-11=0/941, 7-11=-899/0, 7-12=0/515, 6-12=-612/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F55	Floor	1	1	I50173877
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:13 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-l0lS1hMkJ81btndMCAjE?yR8U2V623lOywksakzmZ5K

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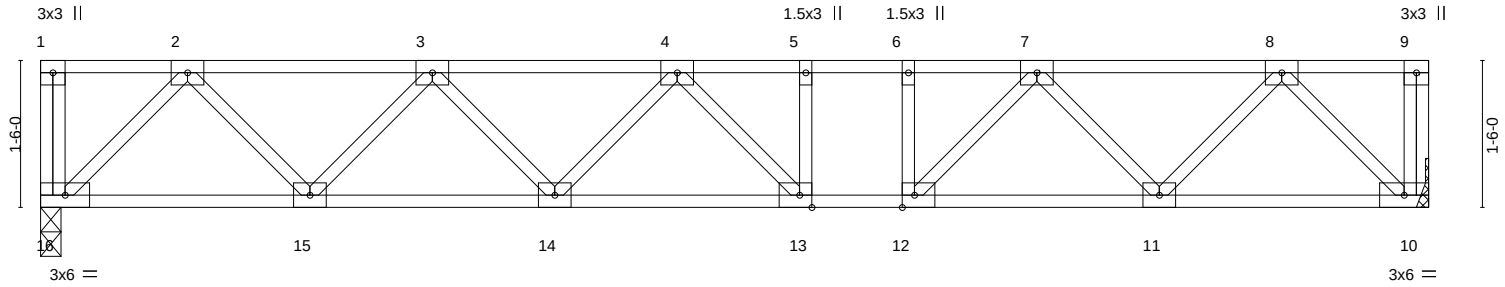

14-2-1
14-2-1

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.16	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=Mechanical
Max Grav 16=905(LC 1), 10=905(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1375/0, 3-4=-2112/0, 4-5=-2204/0, 5-6=-2204/0, 6-7=-2204/0, 7-8=-1365/0
BOT CHORD 15-16=0/844, 14-15=0/1885, 13-14=0/2297, 12-13=0/2204, 11-12=0/1872, 10-11=0/847
WEBS 2-16=-1193/0, 2-15=0/790, 3-15=-759/0, 3-14=0/337, 4-14=-275/0, 4-13=-282/151, 8-10=-1199/0, 8-11=0/769, 7-11=-755/0, 7-12=0/593, 6-12=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F56	Floor	2	1	I50173878
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:14 2022 Page 1
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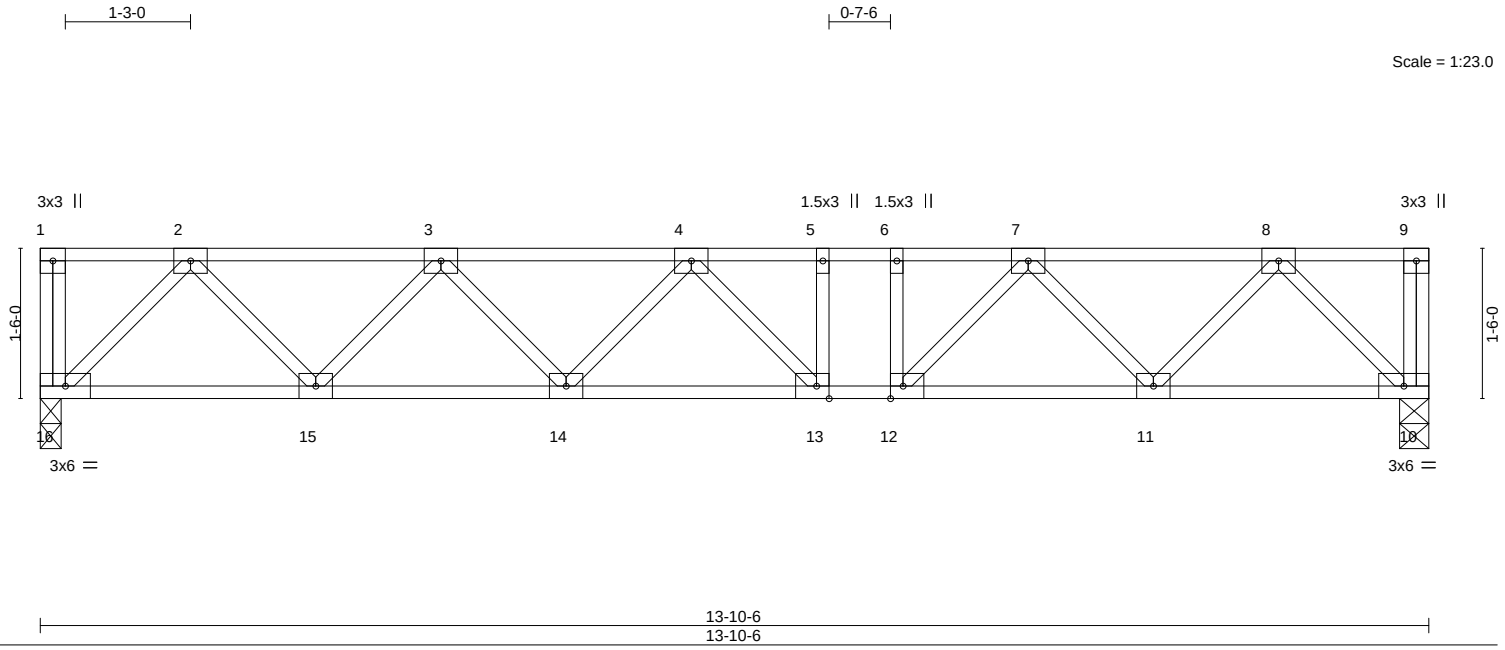

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.08	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=0-3-8
Max Grav 16=885(LC 1), 10=885(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1337/0, 3-4=-2035/0, 4-5=-2108/0, 5-6=-2108/0, 6-7=-2108/0, 7-8=-1329/0
BOT CHORD 15-16=0/824, 14-15=0/1828, 13-14=0/2205, 12-13=0/2108, 11-12=0/1816, 10-11=0/828
WEBS 2-16=-1165/0, 2-15=0/763, 3-15=-730/0, 3-14=0/307, 4-14=-253/0, 4-13=-279/125, 8-10=-1170/0, 8-11=0/745, 7-11=-724/0, 7-12=0/527, 6-12=-256/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F57	Floor	1	1	I50173879
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:15 2022 Page 1
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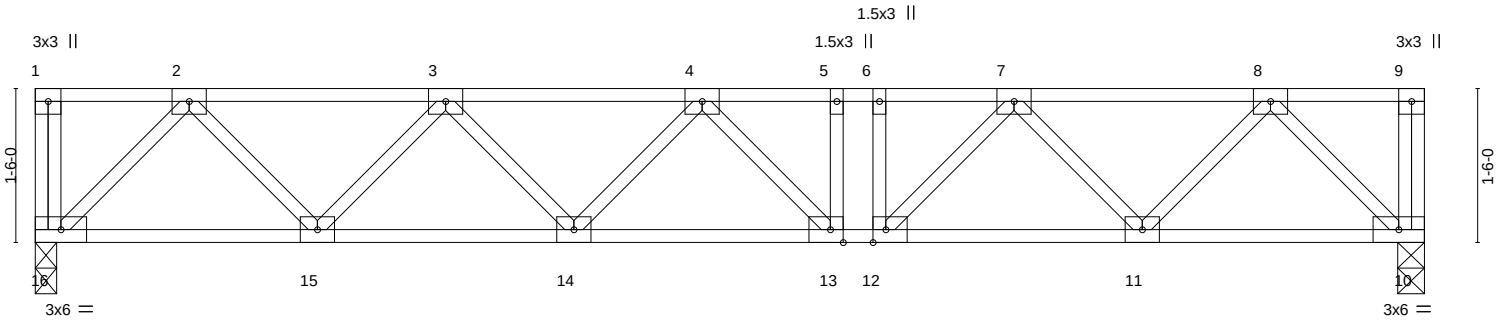

13-6-8
13-6-8

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 10=0-3-2
Max Grav 16=864(LC 1), 10=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1298/0, 3-4=-1954/0, 4-5=-2009/0, 5-6=-2009/0, 6-7=-2009/0, 7-8=-1291/0
BOT CHORD 15-16=0/803, 14-15=0/1769, 13-14=0/2109, 12-13=0/2009, 11-12=0/1757, 10-11=0/807
WEBS 2-16=-1135/0, 2-15=0/736, 3-15=-701/0, 3-14=0/275, 4-13=-273/98, 8-10=-1141/0, 8-11=0/721, 7-11=-691/0, 7-12=0/459

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F58	Floor	1	1	I50173880
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:16 2022 Page 1
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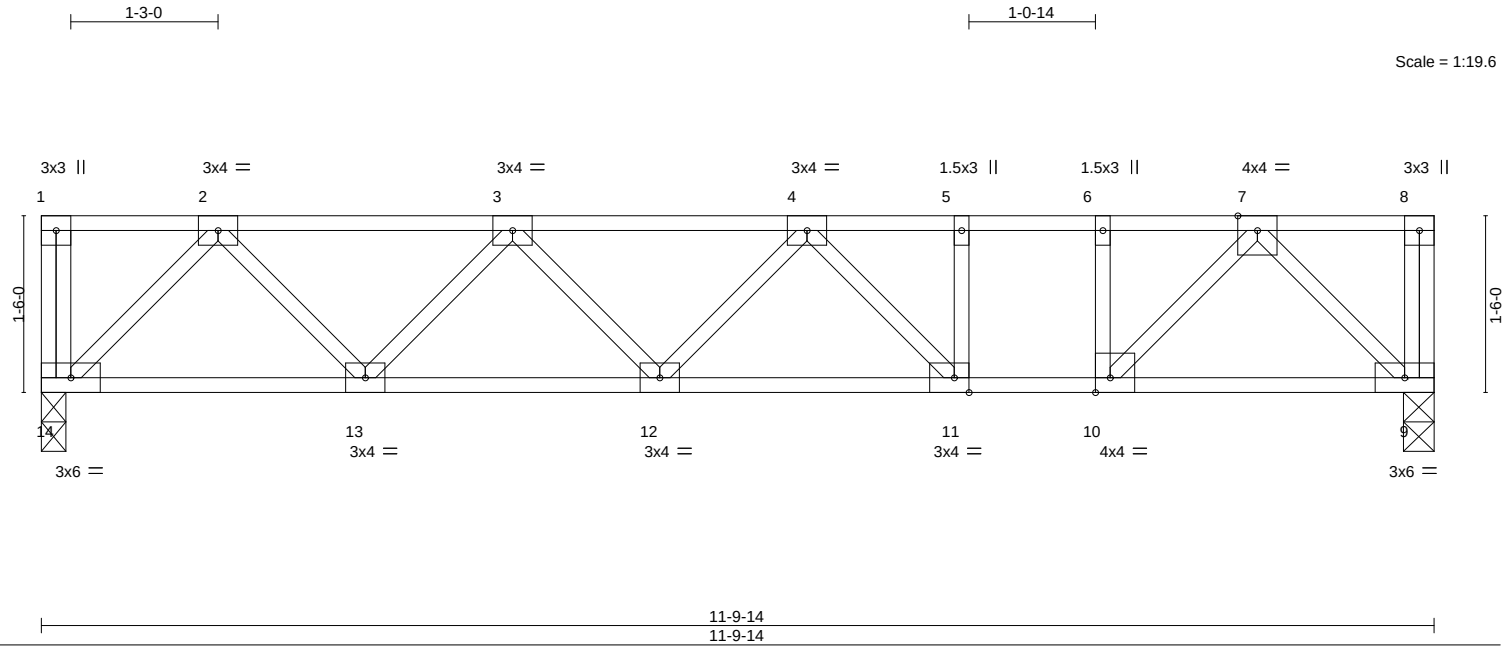

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.16	11-12	>858	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 11-12.

REACTIONS. (size) 14=0-2-8, 9=0-3-2
Max Grav 14=752(LC 1), 9=752(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1081/0, 3-4=-1555/0, 4-5=-1276/0, 5-6=-1276/0, 6-7=-1276/0
BOT CHORD 13-14=0/691, 12-13=0/1457, 11-12=0/1589, 10-11=0/1276, 9-10=0/678
WEBS 2-14=-977/0, 2-13=0/580, 3-13=-558/0, 4-11=-505/0, 7-9=-959/0, 7-10=0/866, 6-10=-460/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F59	Floor	1	1	I50173881
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:17 2022 Page 1
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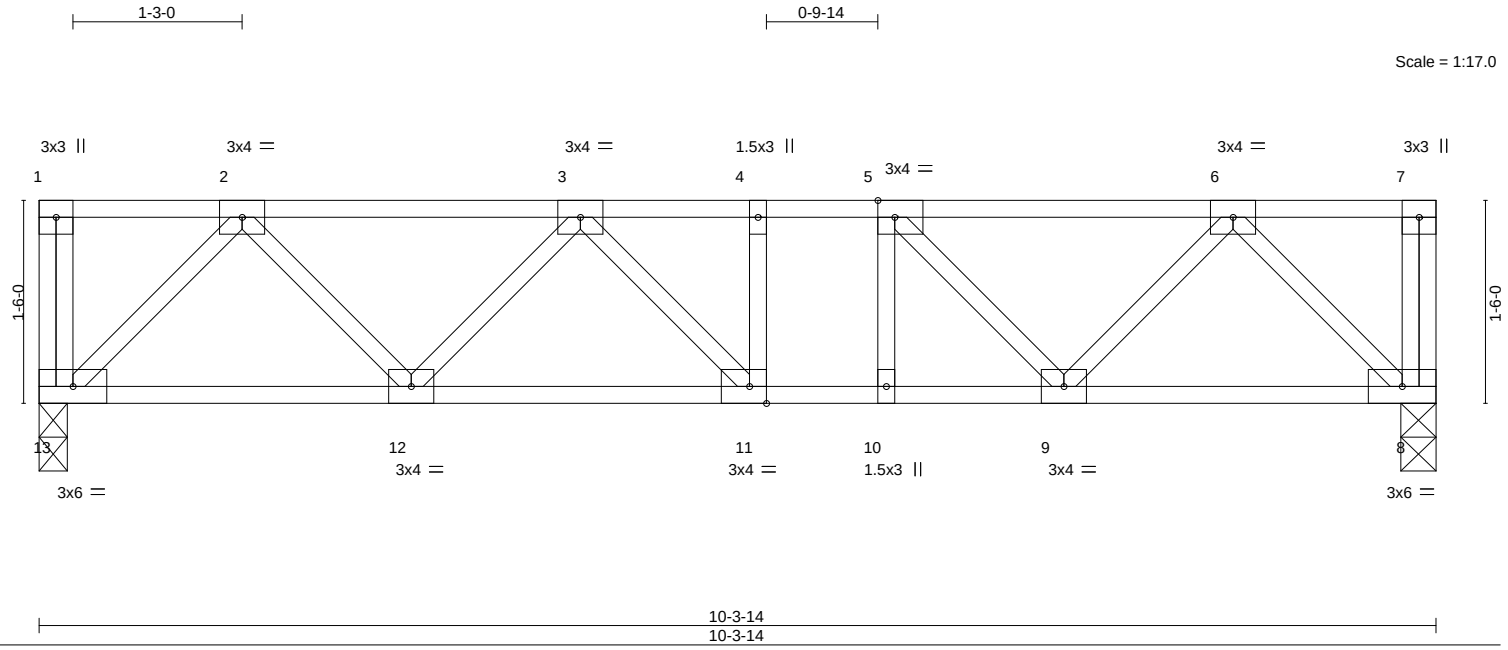

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.03	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-8, 8=0-3-2
Max Grav 13=655(LC 1), 8=655(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-898/0, 3-4=-1185/0, 4-5=-1185/0, 5-6=-895/0
BOT CHORD 12-13=0/598, 11-12=0/1169, 10-11=0/1185, 9-10=0/1185, 8-9=0/599
WEBS 2-13=-846/0, 2-12=0/445, 3-12=-402/0, 6-8=-847/0, 6-9=0/441, 5-9=-420/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F60	Floor	1	1	I50173882
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:21 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WYEUjQSlQc2Sq?Eugrs6JemXrGL1wjran9gHsGzmZ5C

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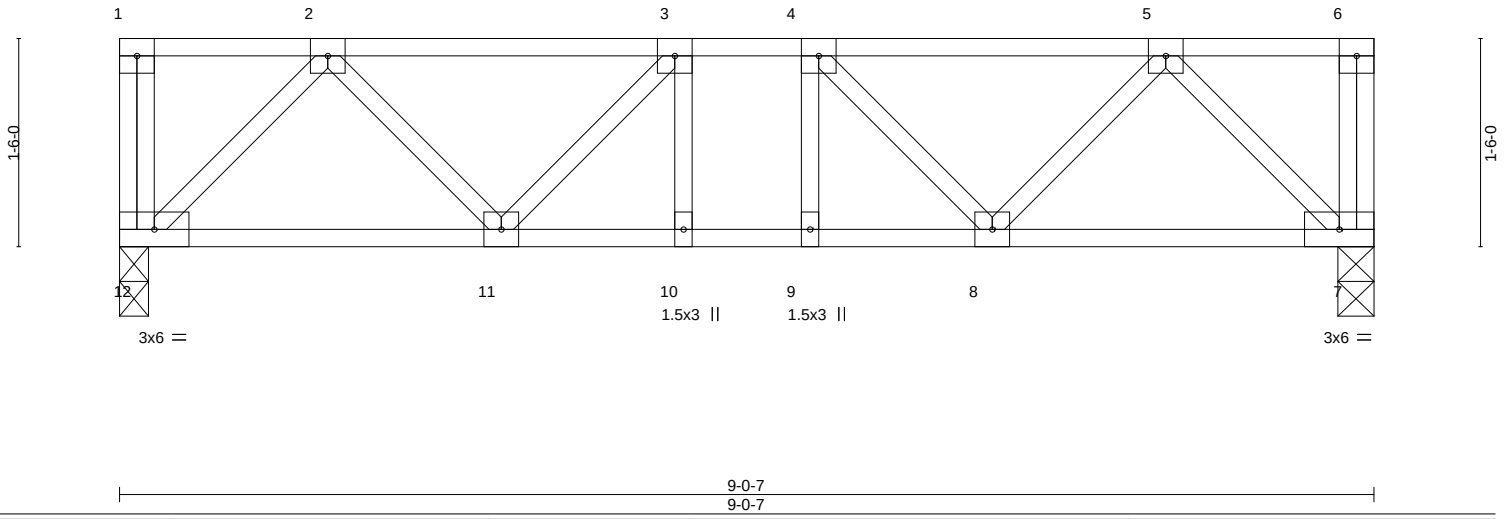

9-0-7
9-0-7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.02	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.03	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-8, 7=0-3-2
Max Grav 12=571(LC 1), 7=571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-734/0, 3-4=-934/0, 4-5=-734/0
BOT CHORD 11-12=0/518, 10-11=0/934, 9-10=0/934, 8-9=0/934, 7-8=0/518
WEBS 2-12=-733/0, 2-11=0/320, 3-11=-300/0, 5-7=-733/0, 5-8=0/320, 4-8=-300/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F61	FLOOR	1	1	I50173883
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:23 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SxME86U0yDIA4JOHoGuaP3rrs4xQOa6tFT9Ow9zmZ5A

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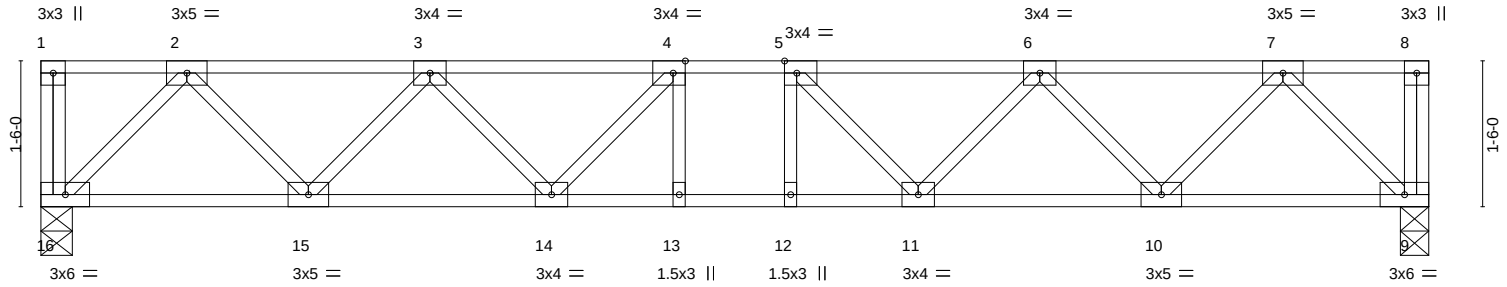

14-3-4
14-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-14, 9=0-3-8
Max Grav 16=911(LC 1), 9=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1390/0, 3-4=-2122/0, 4-5=-2332/0, 5-6=-2122/0, 6-7=-1390/0
BOT CHORD 15-16=0/849, 14-15=0/1905, 13-14=0/2332, 12-13=0/2332, 11-12=0/2332, 10-11=0/1905, 9-10=0/849
WEBS 2-16=-1201/0, 2-15=0/804, 3-15=-765/0, 3-14=0/371, 4-14=-422/0, 7-9=-1201/0, 7-10=0/804, 6-10=-765/0, 6-11=0/371, 5-11=-422/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F62	Floor	1	1	I50173884
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:24 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-w7wcLSUejXQ1hTzTM_PpxHO16UJa71f0U7vySbzmZ59

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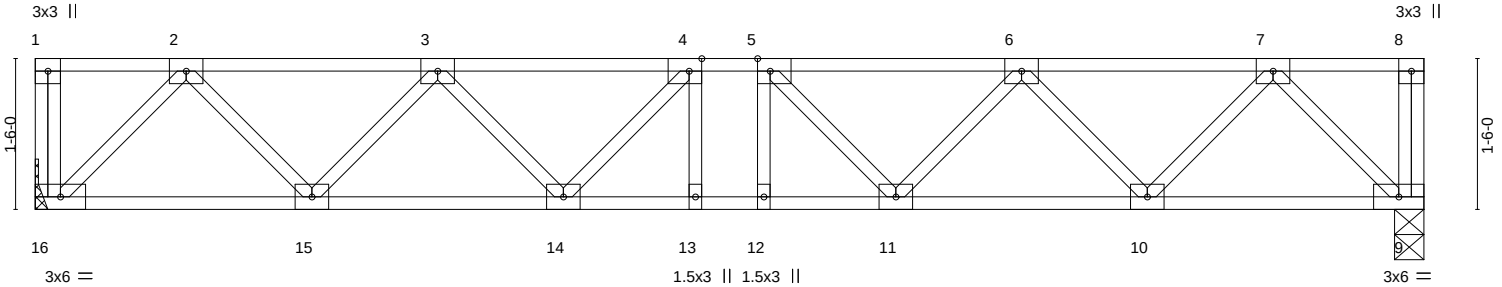

13-9-11
13-9-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=881(LC 1), 9=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1332/0, 3-4=-2011/0, 4-5=-2192/0, 5-6=-2011/0, 6-7=-1332/0
BOT CHORD 15-16=0/819, 14-15=0/1819, 13-14=0/2192, 12-13=0/2192, 11-12=0/2192, 10-11=0/1819, 9-10=0/819
WEBS 2-16=-1159/0, 2-15=0/763, 3-15=-723/0, 3-14=0/330, 4-14=-360/0, 7-9=-1159/0, 7-10=0/763, 6-10=-723/0, 6-11=0/330, 5-11=-360/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F63	Floor	2	1	I50173885
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-OKT_YnVGUqYuJdYgvhw2UUwCrufpsUv9ineV?1zmZ58

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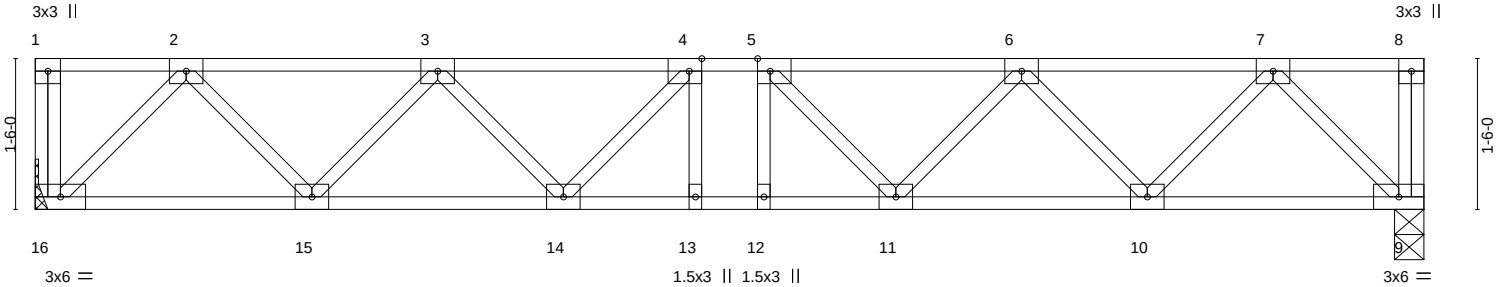

13-9-11
13-9-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=881(LC 1), 9=881(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1332/0, 3-4=-2011/0, 4-5=-2192/0, 5-6=-2011/0, 6-7=-1332/0
BOT CHORD 15-16=0/819, 14-15=0/1819, 13-14=0/2192, 12-13=0/2192, 11-12=0/2192, 10-11=0/1819, 9-10=0/819
WEBS 2-16=-1159/0, 2-15=0/763, 3-15=-723/0, 3-14=0/330, 4-14=-360/0, 7-9=-1159/0, 7-10=0/763, 6-10=-723/0, 6-11=0/330, 5-11=-360/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F64	Floor	1	1	I50173886
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:26 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sW1Nm7WuF8glxn7sTPSH0iTMtHx?bwhJxRO2XUzmZ57

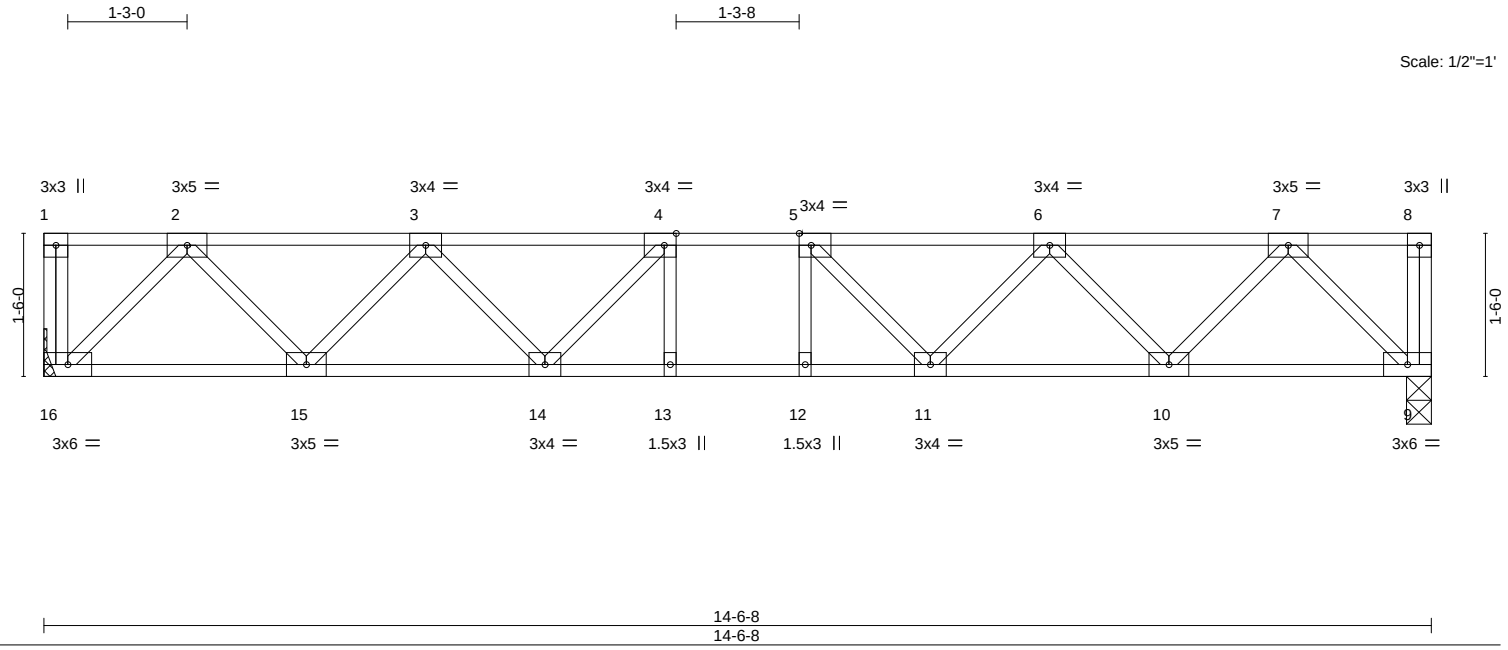

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-2
Max Grav 16=929(LC 1), 9=929(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1423/0, 3-4=-2187/0, 4-5=-2414/0, 5-6=-2187/0, 6-7=-1423/0
BOT CHORD 15-16=0/867, 14-15=0/1954, 13-14=0/2414, 12-13=0/2414, 11-12=0/2414, 10-11=0/1954, 9-10=0/867
WEBS 2-16=-1226/0, 2-15=0/827, 3-15=-788/0, 3-14=0/396, 4-14=-459/0, 7-9=-1226/0, 7-10=0/827, 6-10=-788/0, 6-11=0/396, 5-11=-459/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F65	Floor	1	1	I50173887
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:28 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ov97BpX8nlwSA4GFapUl67YgQ5d83p4cOlt9bMzmZ55

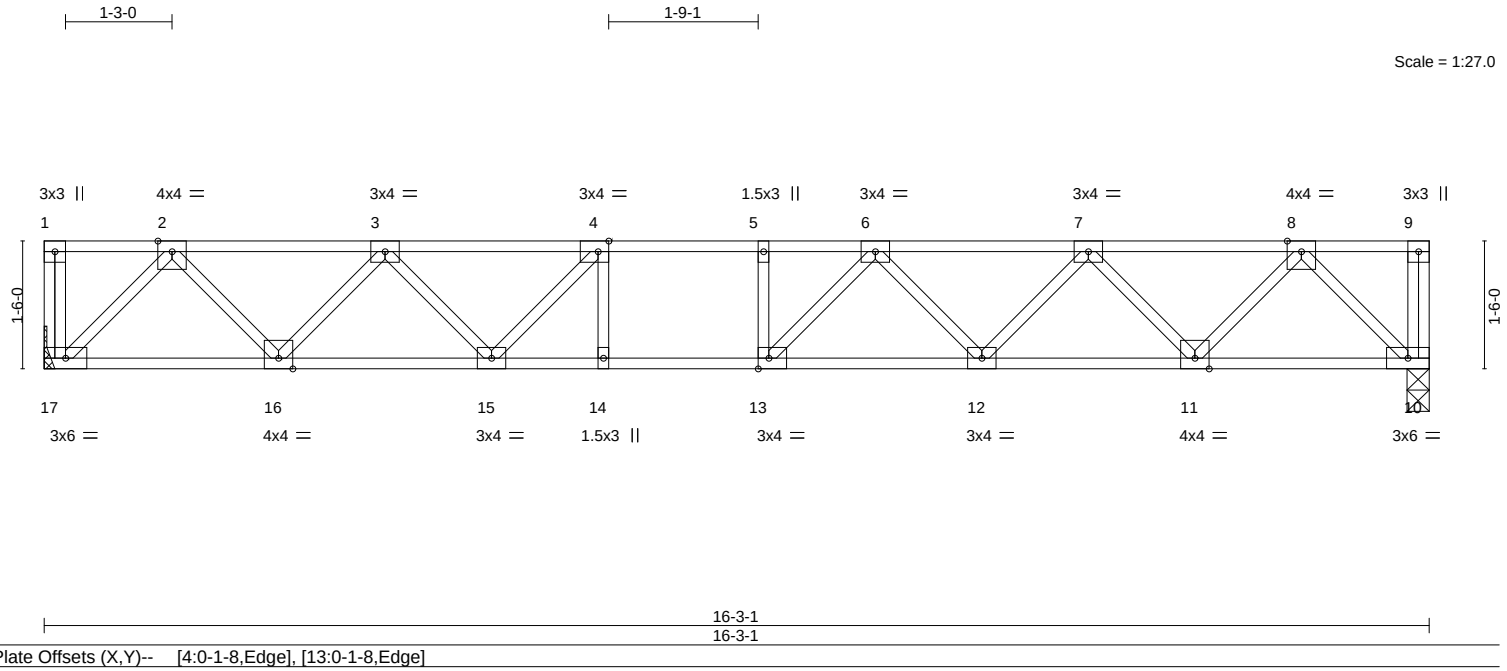

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.17	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.26	12-13	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-2
Max Grav 17=1040(LC 1), 10=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1634/0, 3-4=-2606/0, 4-5=-2986/0, 5-6=-2986/0, 6-7=-2612/0, 7-8=-1633/0
BOT CHORD 16-17=0/981, 15-16=0/2258, 14-15=0/2986, 13-14=0/2986, 12-13=0/2920, 11-12=0/2266, 10-11=0/978
WEBS 2-17=-1387/0, 2-16=0/971, 3-16=-927/0, 3-15=0/556, 4-15=-681/0, 8-10=-1383/0, 8-11=0/973, 7-11=-941/0, 7-12=0/515, 6-12=-458/0, 6-13=-148/393

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F66	Floor	1	1	I50173888
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:29 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-H5jVO9YmX32JoErR8X?_eK5uXV_zoHsldPci8ozmZ54

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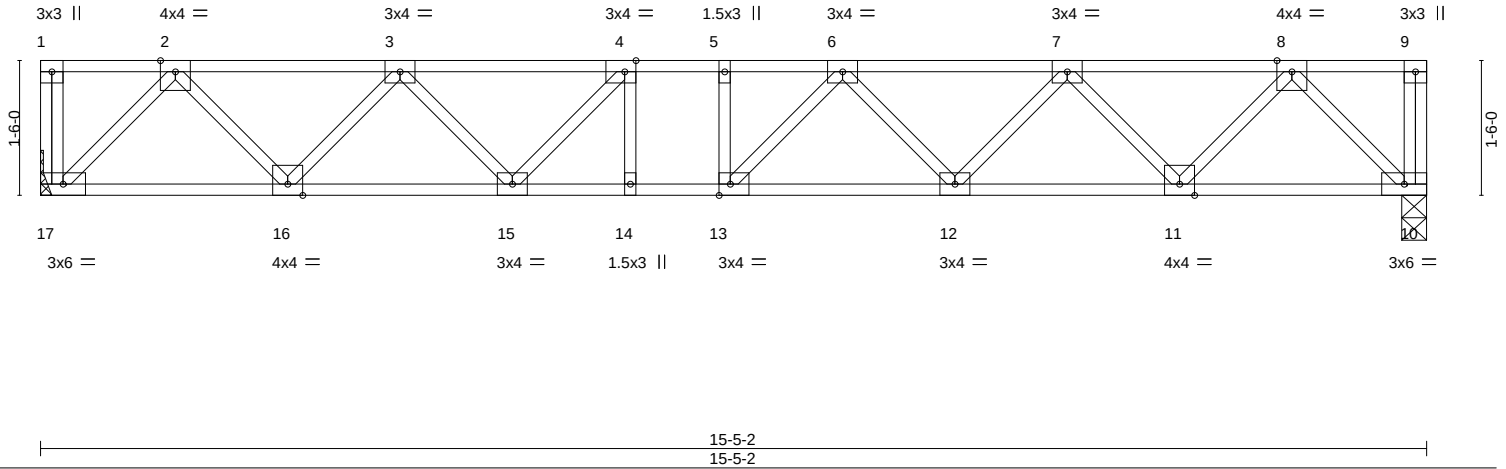

15-5-2
15-5-2

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.11	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.18	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 86 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-5
Max Grav 17=986(LC 1), 10=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1532/0, 3-4=-2404/0, 4-5=-2700/0, 5-6=-2700/0, 6-7=-2408/0, 7-8=-1531/0
BOT CHORD 16-17=0/925, 15-16=0/2112, 14-15=0/2700, 13-14=0/2700, 12-13=0/2676, 11-12=0/2113, 10-11=0/925
WEBS 2-17=-1309/0, 2-16=0/902, 3-16=-862/0, 3-15=0/468, 4-15=-525/0, 8-10=-1308/0, 8-11=0/901, 7-11=-865/0, 7-12=0/438, 6-12=-398/0, 6-13=-183/292

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F67	Floor	1	1	I50173889
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:30 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-lHHtcVZPINBAPOQdiEWDBYe3HvLoXlyvs3MGgFzmZ53

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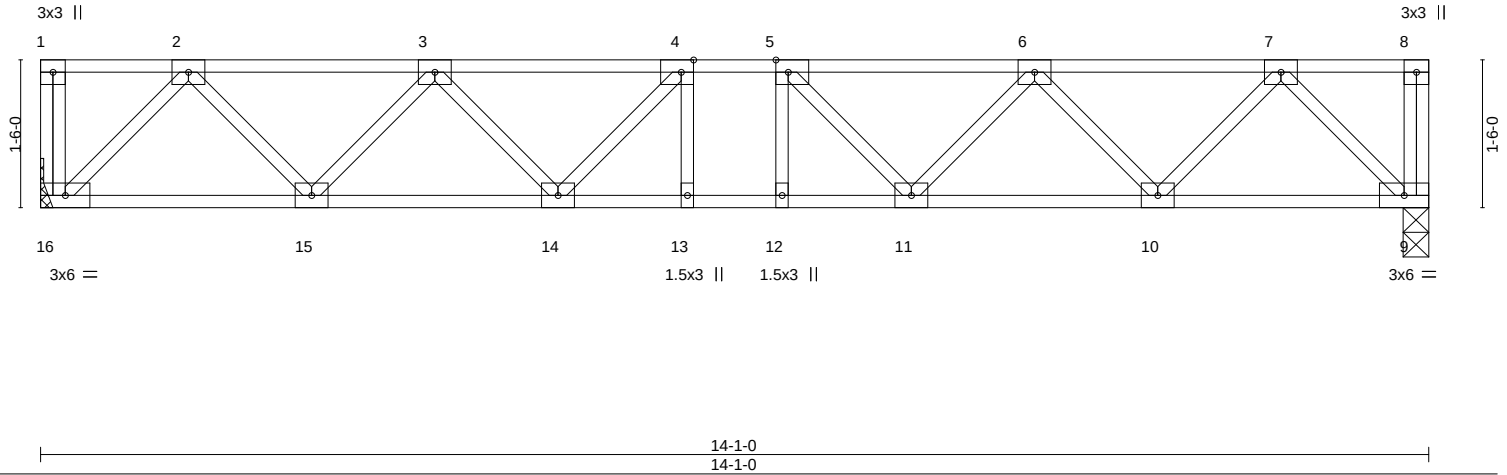

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.12	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-2
Max Grav 16=899(LC 1), 9=899(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1367/0, 3-4=-2078/0, 4-5=-2276/0, 5-6=-2078/0, 6-7=-1367/0
BOT CHORD 15-16=0/837, 14-15=0/1871, 13-14=0/2276, 12-13=0/2276, 11-12=0/2276, 10-11=0/1871, 9-10=0/837
WEBS 2-16=-1184/0, 2-15=0/788, 3-15=-749/0, 3-14=0/354, 4-14=-397/0, 7-9=-1184/0, 7-10=0/788, 6-10=-749/0, 6-11=0/354, 5-11=-397/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F68	Floor	1	1	I50173890
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:31 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DTrGpra13gJ11Y?qGy1SjlADtld0GB725j5pChzmZ52

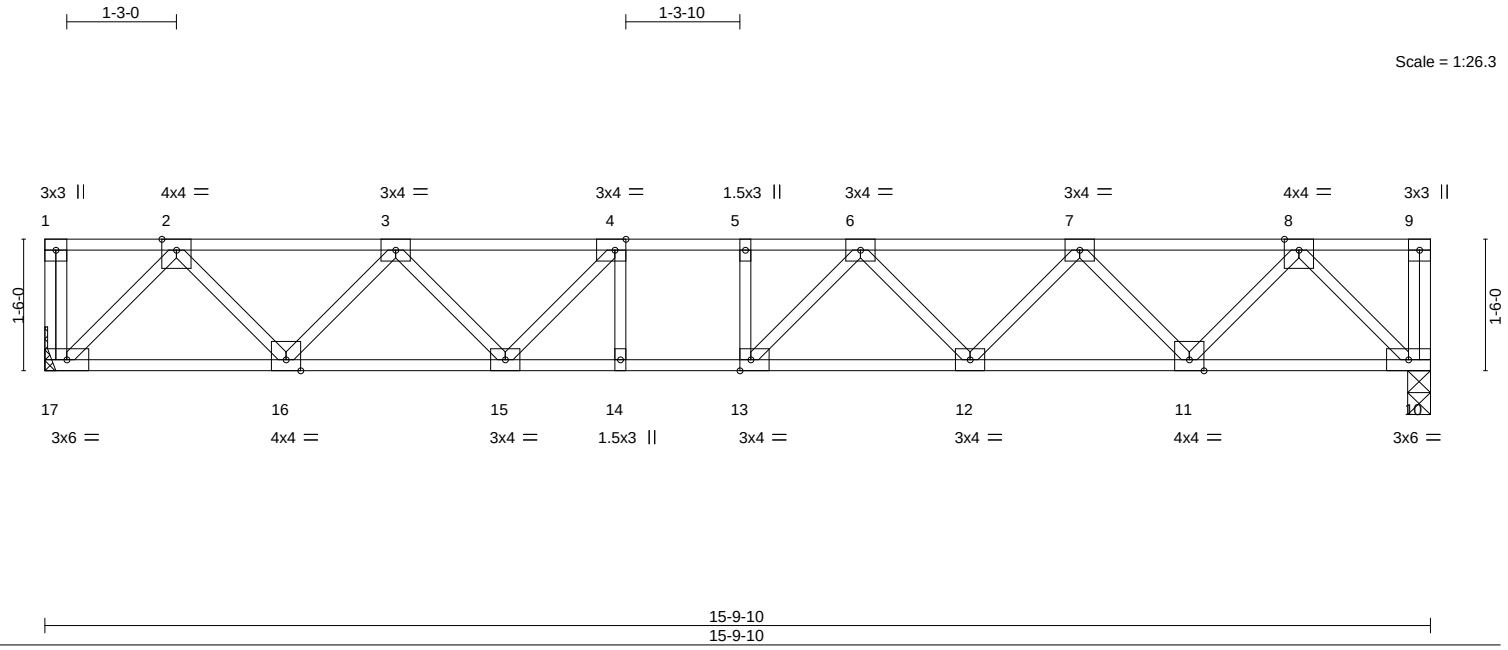

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.21	12-13	>878	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=0-3-2
Max Grav 17=1011(LC 1), 10=1011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1578/0, 3-4=-2495/0, 4-5=-2828/0, 5-6=-2828/0, 6-7=-2500/0, 7-8=-1577/0
BOT CHORD 16-17=0/950, 15-16=0/2178, 14-15=0/2828, 13-14=0/2828, 12-13=0/2787, 11-12=0/2182, 10-11=0/949
WEBS 2-17=-1344/0, 2-16=0/934, 3-16=-892/0, 3-15=0/509, 4-15=-593/0, 8-10=-1342/0, 8-11=0/934, 7-11=-899/0, 7-12=0/473, 6-12=-426/0, 6-13=-171/337

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F69	Floor	1	1	I50173891
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:32 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hgPe0Bafq_Rufia0pfZhGzjKJi2V?dYBJNrNI7zmZ51

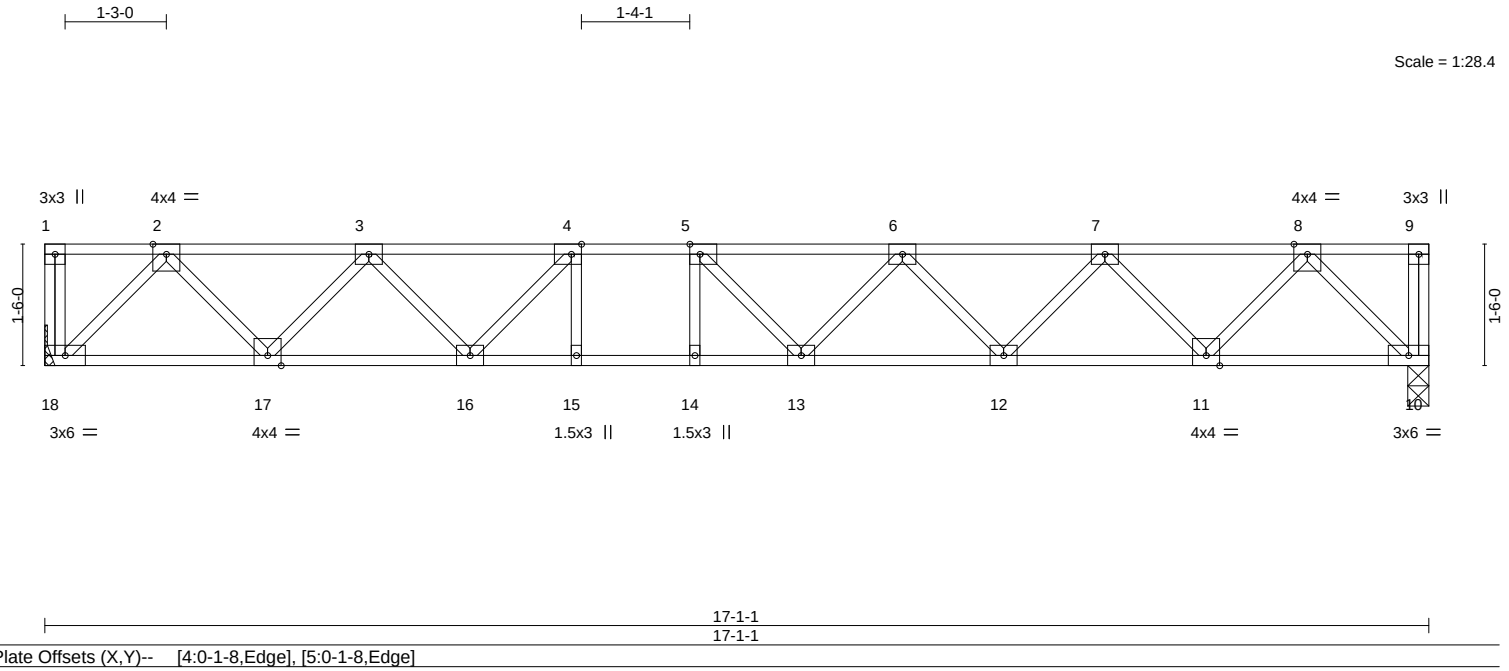

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.26	13-14	>766	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 94 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 10=0-3-2
Max Grav 18=1094(LC 1), 10=1094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1738/0, 3-4=-2801/0, 4-5=-3274/0, 5-6=-3284/0, 6-7=-2813/0, 7-8=-1736/0
BOT CHORD 17-18=0/1036, 16-17=0/2407, 15-16=0/3274, 14-15=0/3274, 13-14=0/3274, 12-13=0/3202, 11-12=0/2409, 10-11=0/1035
WEBS 2-18=-1465/0, 2-17=0/1045, 3-17=-994/0, 3-16=0/604, 4-16=-785/0, 4-15=-43/332, 8-10=-1464/0, 8-11=0/1042, 7-11=-1001/0, 7-12=0/600, 6-12=-579/0, 6-13=-19/269, 5-13=-280/240, 5-14=-308/67

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F70	Floor	1	1	I50173892
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZRe8sYe9uDxK8Jun2VddQpt?lJQnxPfnE?patvzmZ4z

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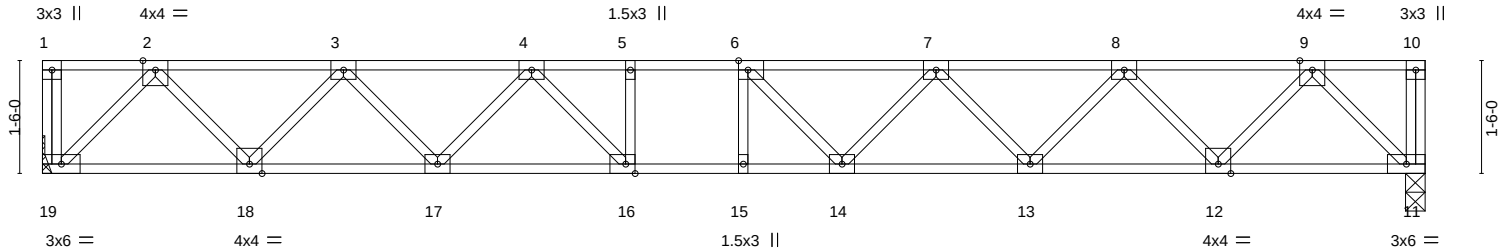

18-4-8
18-4-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.20	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.32	14-15	>673	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 100 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 11=0-3-2
Max Grav 19=1178(LC 1), 11=1178(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1899/0, 3-4=-3108/0, 4-5=-3847/0, 5-6=-3847/0, 6-7=-3747/0, 7-8=-3123/0, 8-9=-1895/0
BOT CHORD 18-19=0/1117, 17-18=0/2650, 16-17=0/3568, 15-16=0/3847, 14-15=0/3847, 13-14=0/3585, 12-13=0/2645, 11-12=0/1118
WEBS 2-19=-1579/0, 2-18=0/1163, 3-18=-1116/0, 3-17=0/681, 4-17=-684/0, 4-16=0/634, 9-11=-1581/0, 9-12=0/1155, 8-12=-1115/0, 8-13=0/710, 7-13=-686/0, 7-14=0/375, 6-14=-415/140

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F71	Floor	1	1	I50173893
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:37 2022 Page 1
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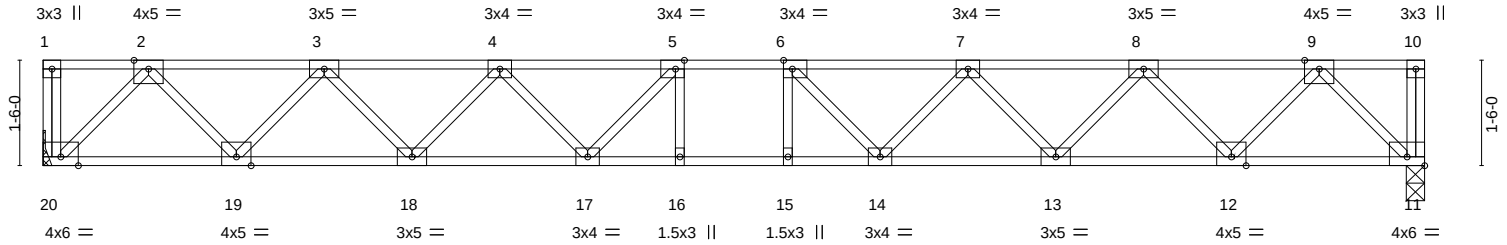

19-7-15
19-7-15

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.24	15-16	>990	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.38	15-16	>609	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 106 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 11=0-3-2
Max Grav 20=1262(LC 1), 11=1262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2054/0, 3-4=-3435/0, 4-5=-4208/0, 5-6=-4446/0, 6-7=-4208/0, 7-8=-3435/0, 8-9=-2054/0
BOT CHORD 19-20=0/1201, 18-19=0/2883, 17-18=0/3965, 16-17=0/4446, 15-16=0/4446, 14-15=0/4446, 13-14=0/3965, 12-13=0/2883, 11-12=0/1201
WEBS 2-20=-1698/0, 2-19=0/1269, 3-19=-1231/0, 3-18=0/821, 4-18=-788/0, 4-17=0/475, 5-17=-591/30, 9-11=-1698/0, 9-12=0/1269, 8-12=-1231/0, 8-13=0/821, 7-13=-788/0, 7-14=0/475, 6-14=-591/30

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F72	Floor	1	1	I50173894
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:39 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_0KHVag2B8Jv?ncMkdBK2RVVOXMj8klDwz1ETDzmZ4w

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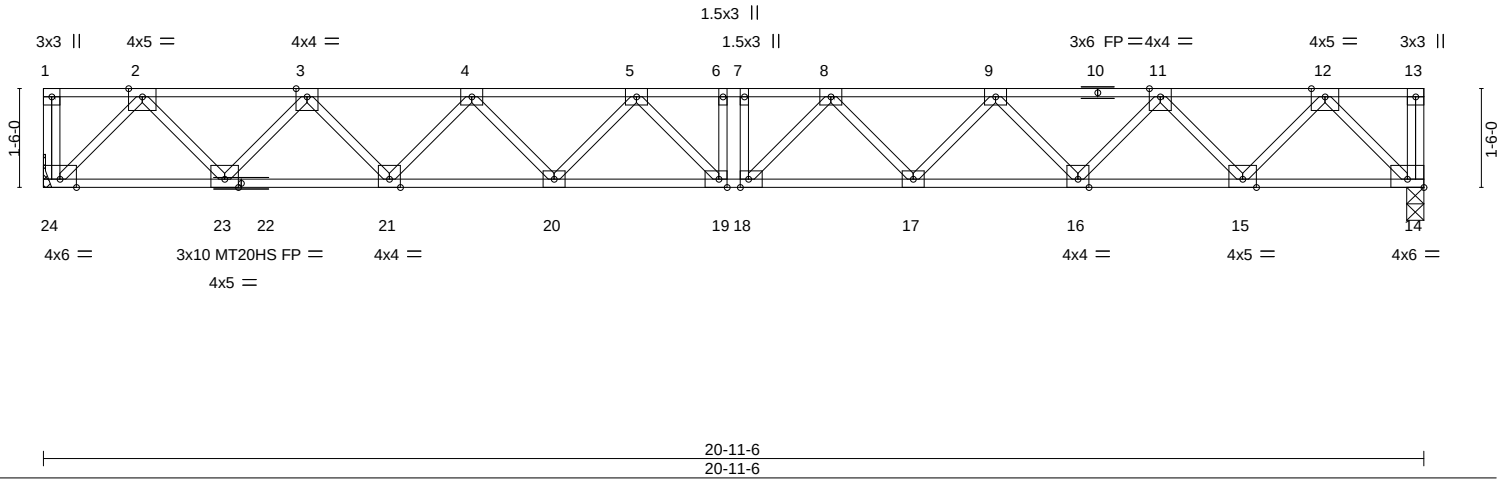

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.33	19	>749	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.54	19	>461	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20,17-18.

REACTIONS. (size) 24=Mechanical, 14=0-3-2
Max Grav 24=1346(LC 1), 14=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2214/0, 3-4=-3745/0, 4-5=-4677/0, 5-6=-5051/0, 6-7=-5051/0, 7-8=-5051/0, 8-9=-4677/0, 9-11=-3745/0, 11-12=-2214/0
BOT CHORD 23-24=0/1284, 21-23=0/3119, 20-21=0/4350, 19-20=0/4980, 18-19=0/5051, 17-18=0/4980, 16-17=0/4350, 15-16=0/3119, 14-15=0/1284
WEBS 2-24=-1816/0, 2-23=0/1383, 3-23=-1344/0, 3-21=0/931, 4-21=-900/0, 4-20=0/486, 5-20=-458/0, 12-14=-1816/0, 12-15=0/1383, 11-15=-1344/0, 11-16=0/931, 9-16=-900/0, 9-17=0/486, 8-17=-458/0, 8-18=-205/373, 5-19=-205/373

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F73	Floor	1	1	I50173895
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:42 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Ob?Q7ciwU3hTsELxPmk1g47_qkOSL4fgcxGv4YzmZ4t

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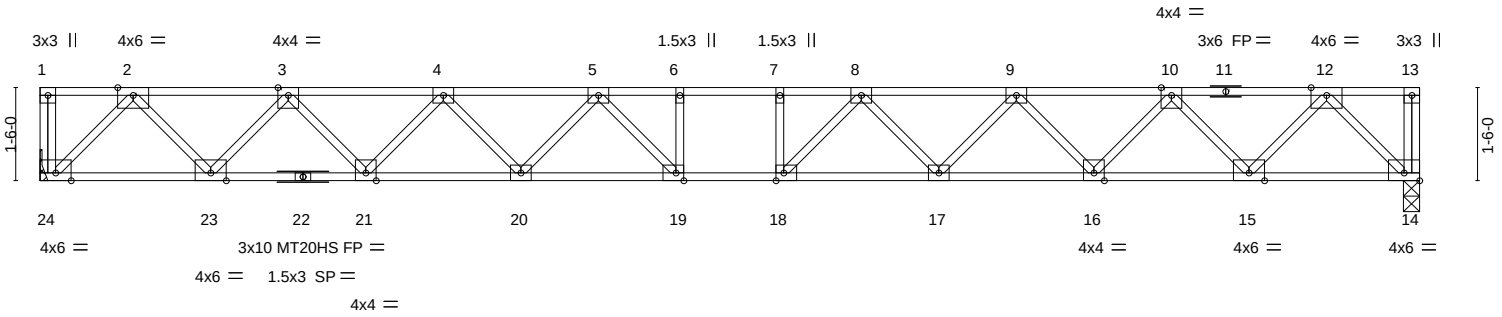

22-2-14
22-2-14

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.38	18-19	>686	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.62	18-19	>422	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=Mechanical, 14=0-3-2
Max Grav 24=1429(LC 1), 14=1429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2374/0, 3-4=-4055/0, 4-5=-5139/0, 5-6=-5680/0, 6-7=-5680/0, 7-8=-5680/0, 8-9=-5139/0, 9-10=-4055/0, 10-12=-2373/0
BOT CHORD 23-24=0/1368, 21-23=0/3353, 20-21=0/4737, 19-20=0/5516, 18-19=0/5680, 17-18=0/5516, 16-17=0/4737, 15-16=0/3353, 14-15=0/1368
WEBS 2-24=-1934/0, 2-23=0/1496, 3-23=-1456/0, 3-21=0/1043, 4-21=-1013/0, 4-20=0/597, 5-20=-585/0, 5-19=-169/607, 12-14=-1934/0, 12-15=0/1495, 10-15=-1457/0, 10-16=0/1044, 9-16=-1013/0, 9-17=0/597, 8-17=-585/0, 8-18=-170/607, 7-18=-290/13, 6-19=-290/13

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F74	Floor	1	1	I50173896
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:44 2022 Page 1
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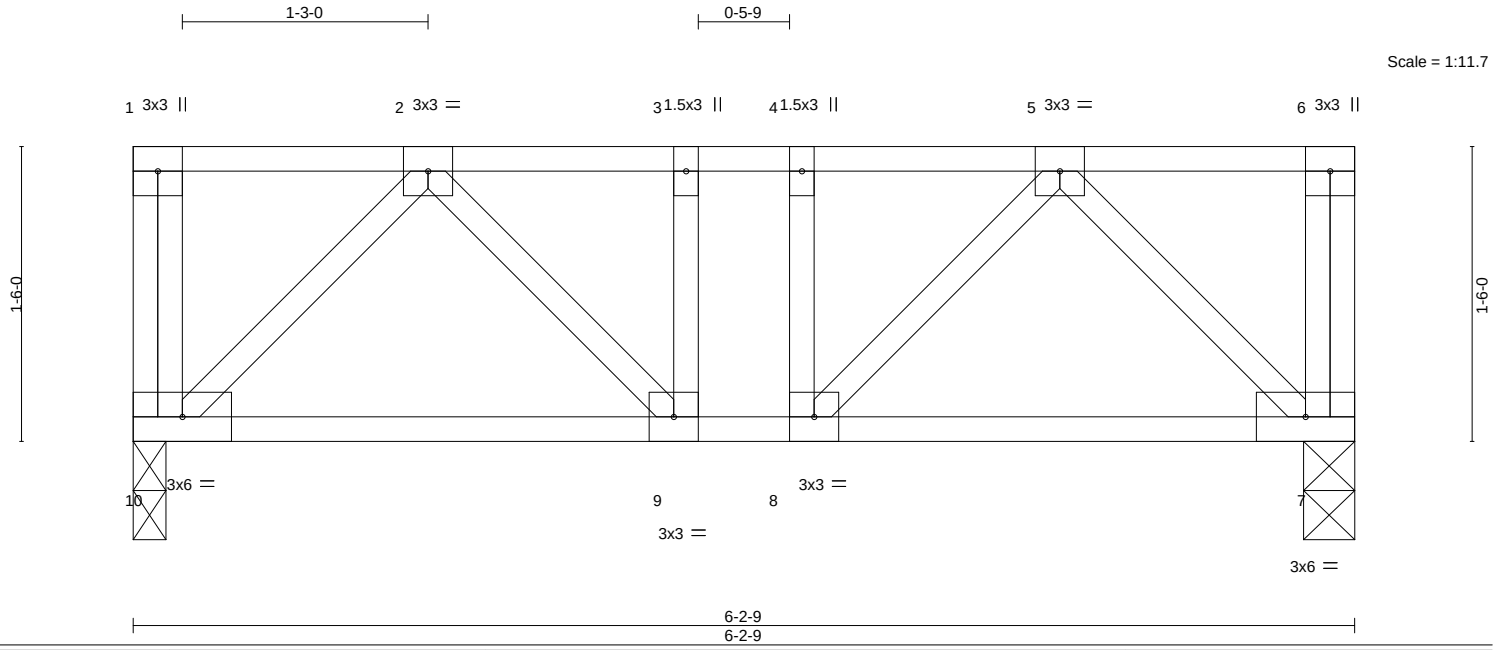

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-3-2
Max Grav 10=388(LC 1), 7=388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-426/0, 3-4=-426/0, 4-5=-426/0
BOT CHORD	9-10=0/311, 8-9=0/426, 7-8=0/311
WEBS	2-10=-440/0, 5-7=-440/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F75	Floor	1	1	I50173897
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:46 2022 Page 1
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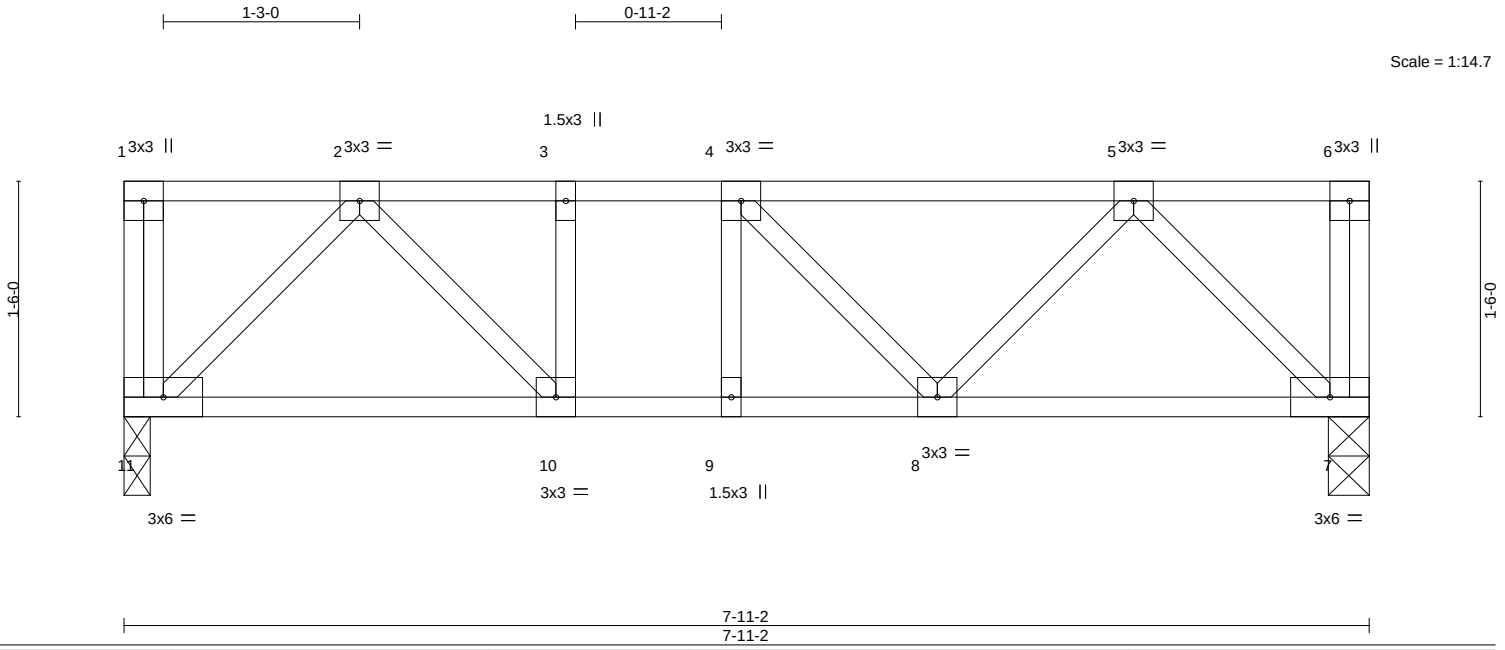

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-3-2
Max Grav 11=499(LC 1), 7=499(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-684/0, 3-4=-684/0, 4-5=-596/0
BOT CHORD	10-11=0/426, 9-10=0/684, 8-9=0/684, 7-8=0/454
WEBS	2-11=-602/0, 2-10=0/388, 5-7=-642/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F76	Floor	3	1	I50173898 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:47 2022 Page 1
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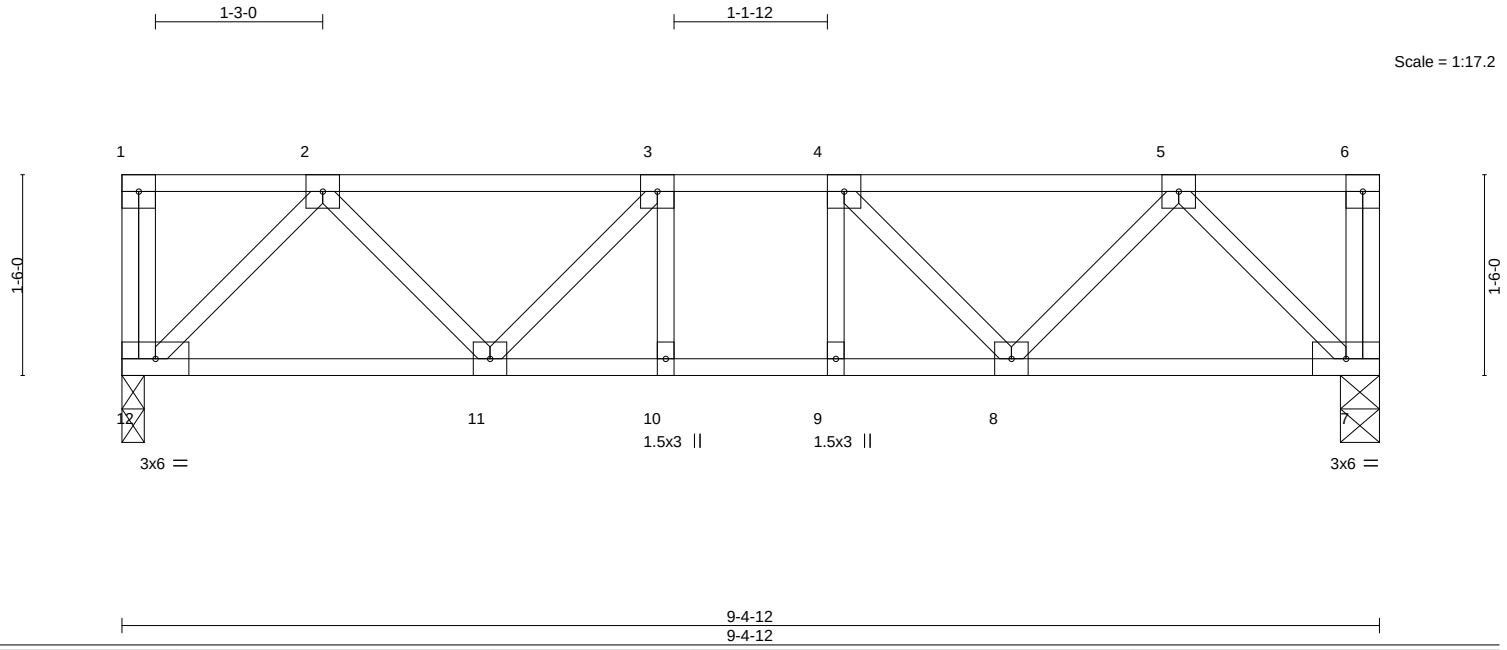

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-3-8
Max Grav 12=594(LC 1), 7=594(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-778/0, 3-4=-1000/0, 4-5=-778/0
BOT CHORD	11-12=0/542, 10-11=0/1000, 9-10=0/1000, 8-9=0/1000, 7-8=0/542
WEBS	2-12=-766/0, 2-11=0/350, 3-11=-340/0, 5-7=-766/0, 5-8=0/350, 4-8=-340/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F77	Floor	7	1	I50173899
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:48 2022 Page 1
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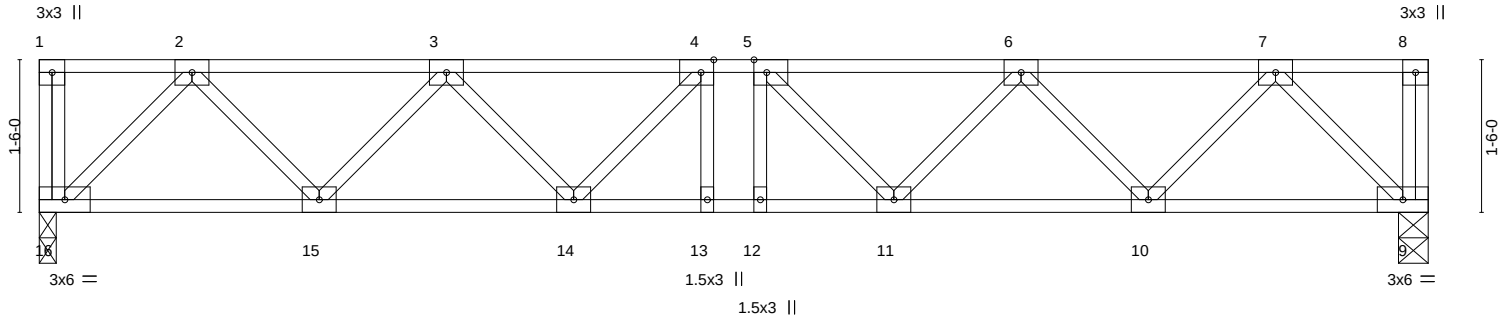

13-7-12
13-7-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=871(LC 1), 9=871(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1312/0, 3-4=-1973/0, 4-5=-2146/0, 5-6=-1973/0, 6-7=-1312/0
BOT CHORD 15-16=0/809, 14-15=0/1789, 13-14=0/2146, 12-13=0/2146, 11-12=0/2146, 10-11=0/1789, 9-10=0/809
WEBS 2-16=-1144/0, 2-15=0/748, 3-15=-709/0, 3-14=0/317, 4-14=-339/0, 7-9=-1144/0, 7-10=0/748, 6-10=-709/0, 6-11=0/317, 5-11=-339/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F78	Floor	12	1	I50173900
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:50 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-97URoLoxbWiLpTyTtRtv?mTTXzF?DoSrSACKM5zmZ4I

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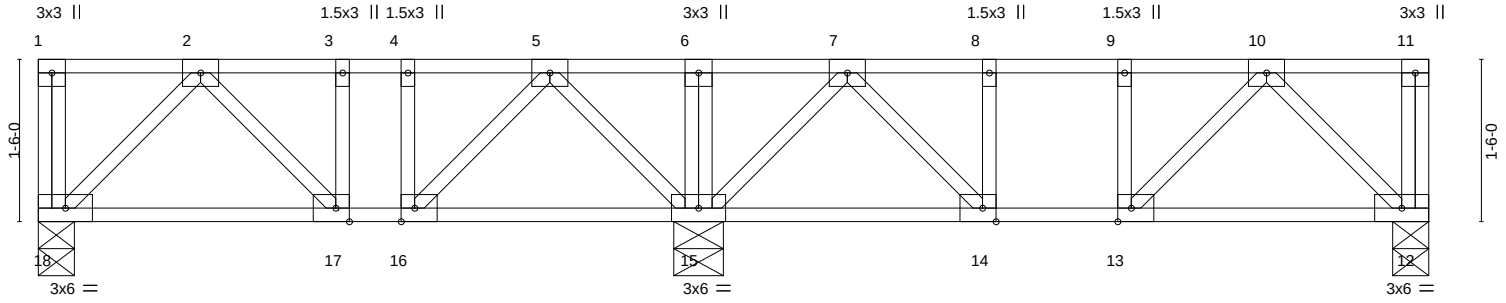

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=895(LC 10), 12=942(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-979/0, 3-4=-979/0, 4-5=-979/0, 5-6=-20/612, 6-7=-20/612, 7-8=-1057/0, 8-9=-1057/0, 9-10=-1057/0
BOT CHORD 17-18=0/725, 16-17=0/979, 15-16=-88/715, 14-15=-36/619, 13-14=0/1057, 12-13=0/769
WEBS 6-15=-432/0, 2-18=-1026/0, 2-17=-27/367, 5-15=-1164/0, 5-16=0/639, 4-16=-398/0, 7-15=-1214/0, 7-14=0/715, 10-12=-1088/0, 10-13=0/416, 9-13=-302/0, 8-14=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F79	Floor	6	1	I50173901
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dK2p0gpaMqqCRdXgR9O8Xz?f5McGyG8_hqytuXzmZ4k

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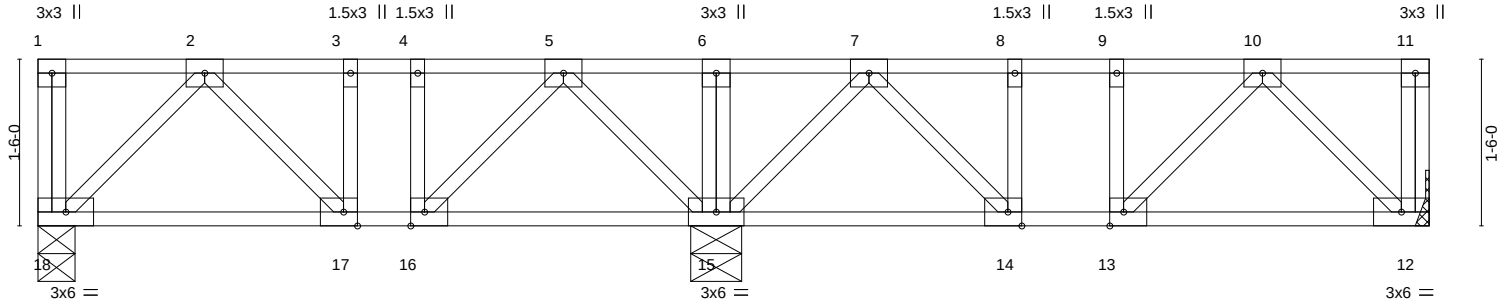

6-1-4 12-6-4
6-1-4 6-5-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=Mechanical, 15=0-5-8
Max Grav 18=864(LC 10), 12=885(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-911/0, 3-4=-911/0, 4-5=-911/0, 5-6=0/574, 6-7=0/574, 7-8=-942/0, 8-9=-942/0, 9-10=-942/0
BOT CHORD 17-18=0/694, 16-17=0/911, 15-16=-106/611, 14-15=-78/558, 13-14=0/942, 12-13=0/714
WEBS 6-15=-429/0, 2-18=-982/0, 2-17=-36/315, 5-15=-1153/0, 5-16=0/623, 4-16=-390/0, 10-12=-1010/0, 10-13=-18/330, 7-15=-1174/0, 7-14=0/655, 8-14=-419/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F80	Floor	3	1	I50173902
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:55 2022 Page 1
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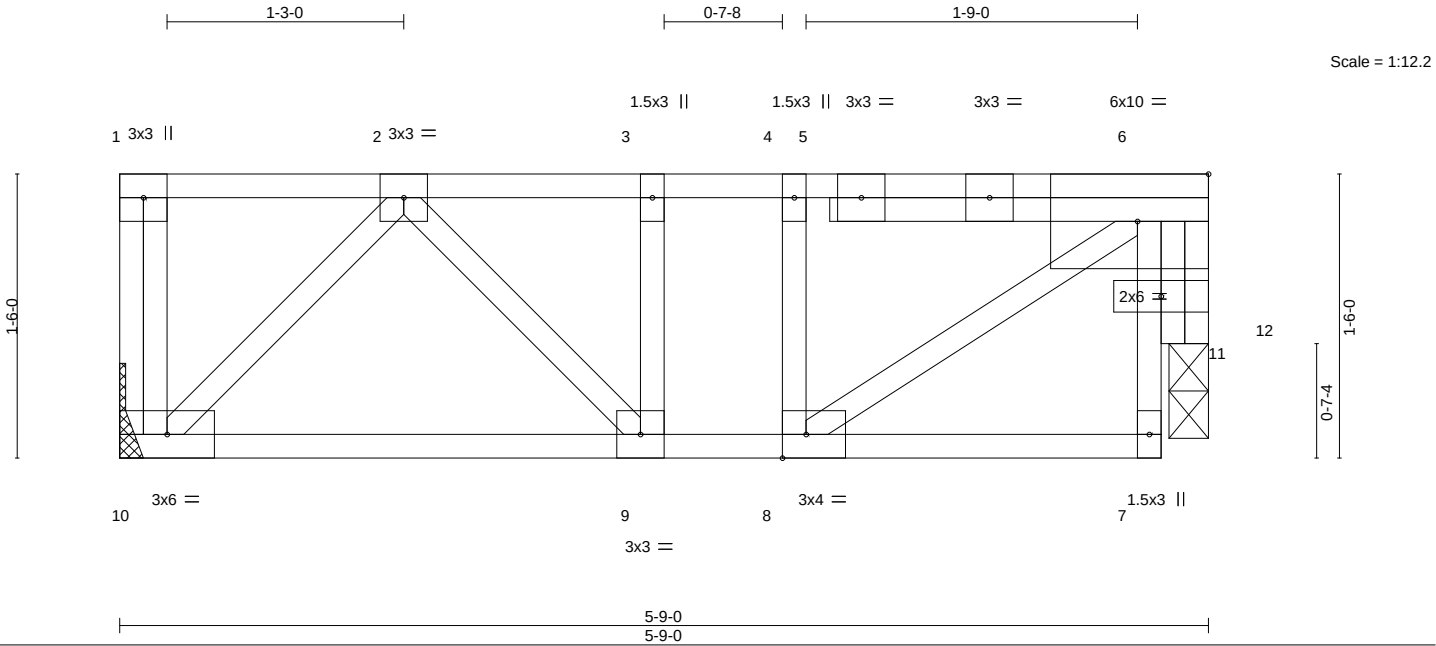

Plate Offsets (X,Y)-- [6:0-4-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-2-8
Max Grav 10=821(LC 1), 12=773(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-812/0, 3-4=-812/0, 4-6=-820/0
BOT CHORD	9-10=0/651, 8-9=0/812
WEBS	6-8=0/856, 4-8=-447/0, 2-10=-920/0, 2-9=0/337, 6-12=-801/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F80A	Floor	3	1	I50173903
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:56 2022 Page 1
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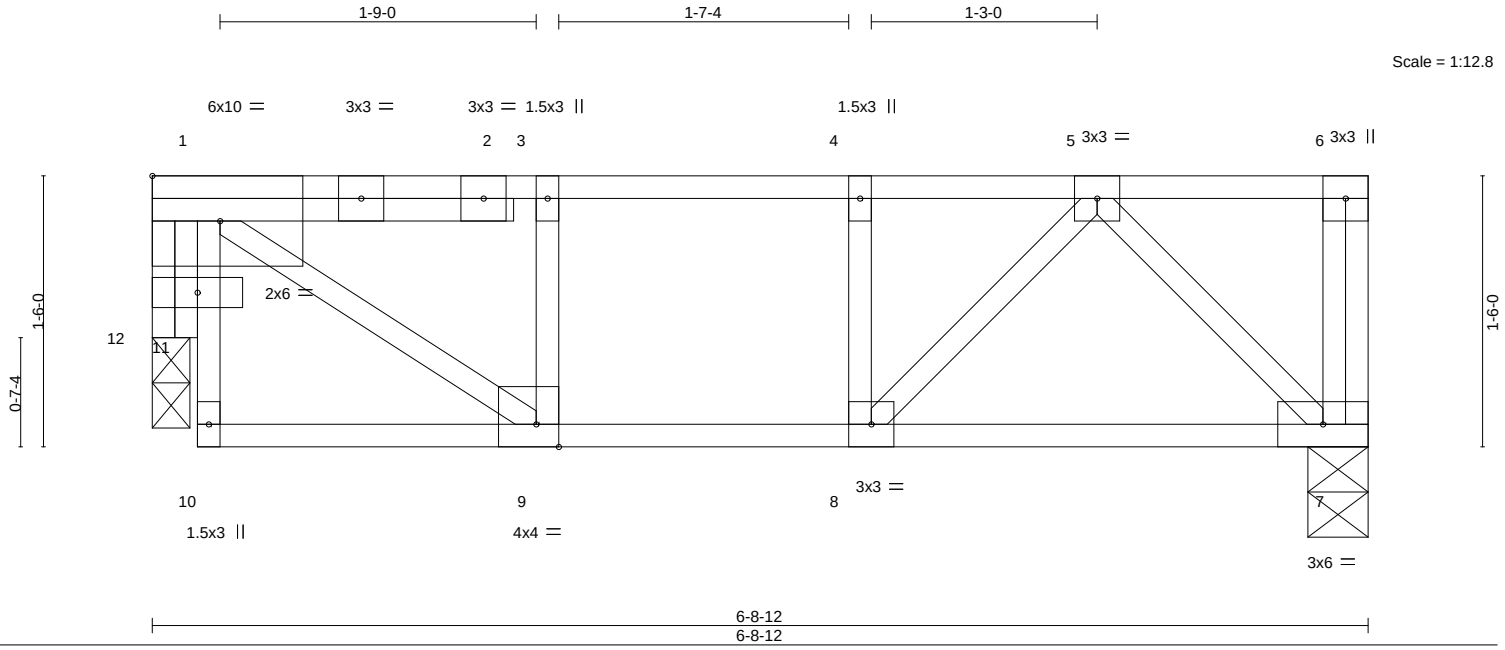

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.08	7-8	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 12=0-2-8
Max Grav 7=968(LC 1), 12=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1098/0, 3-4=-1092/0, 4-5=-1092/0
BOT CHORD 8-9=0/1092, 7-8=0/790
WEBS 1-9=0/1195, 3-9=-621/0, 5-7=-1118/0, 5-8=0/568, 4-8=-355/0, 1-12=-946/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F81	Floor	2	1	I50173904
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:57 2022 Page 1
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1-3-0 0-3-12 1-1-8

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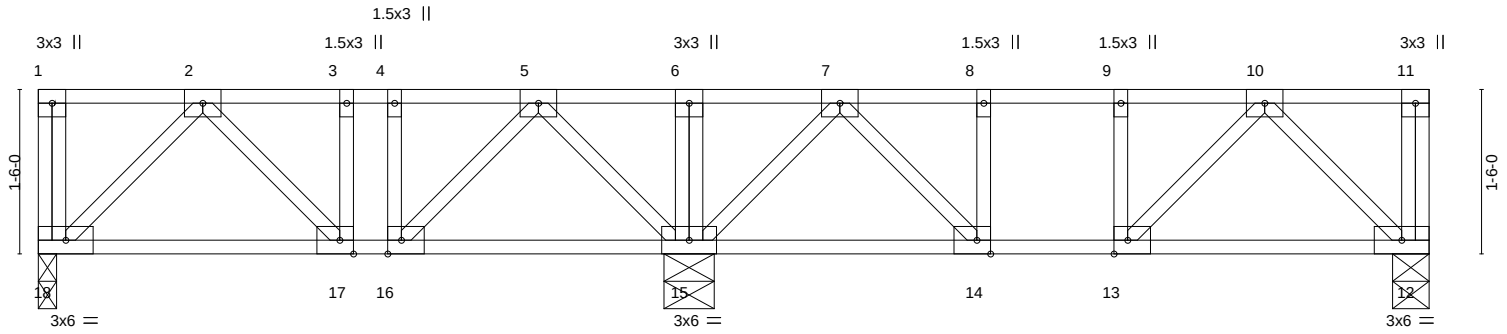

5-11-4 12-8-4
5-11-4 6-9-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 12=0-4-0, 15=0-5-8
Max Grav 18=874(LC 10), 12=938(LC 4), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-938/0, 3-4=-938/0, 4-5=-938/0, 5-6=-35/634, 6-7=-35/634, 7-8=-1045/0, 8-9=-1045/0, 9-10=-1045/0
BOT CHORD 17-18=0/704, 16-17=0/938, 15-16=-99/701, 14-15=-34/602, 13-14=0/1045, 12-13=0/764
WEBS 6-15=-431/0, 2-18=-995/0, 2-17=-34/339, 5-15=-1142/0, 5-16=0/607, 4-16=-376/0, 7-15=-1206/0, 7-14=0/707, 8-14=-458/0, 10-12=-1081/0, 10-13=0/406, 9-13=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F82	Floor	1	1	I50173905
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:13:58 2022 Page 1
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1-3-0 0-5-12 0-11-8

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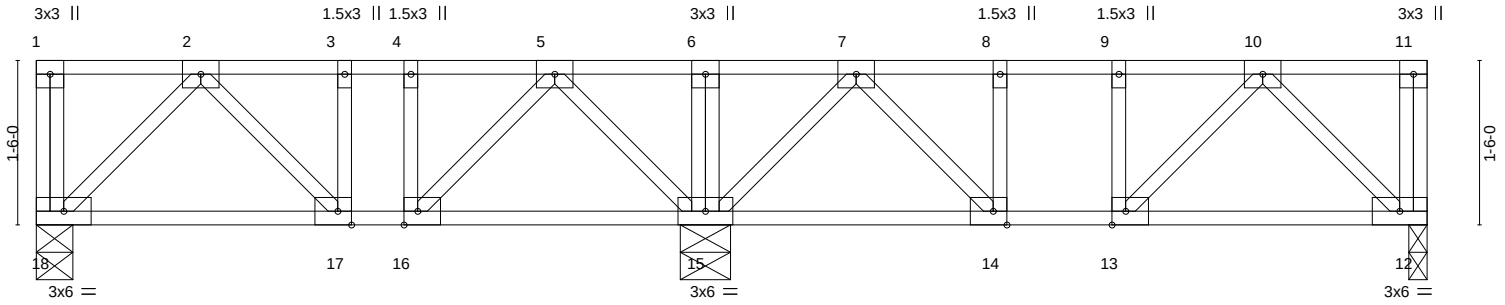

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-2-0, 15=0-5-8
Max Grav 18=880(LC 10), 12=914(LC 7), 15=2058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-946/0, 3-4=-946/0, 4-5=-946/0, 5-6=0/595, 6-7=0/595, 7-8=-999/0, 8-9=-999/0, 9-10=-999/0
BOT CHORD	17-18=0/710, 16-17=0/946, 15-16=-97/665, 14-15=-57/588, 13-14=0/999, 12-13=0/742
WEBS	6-15=-431/0, 2-18=-1005/0, 2-17=-32/342, 5-15=-1159/0, 5-16=0/632, 4-16=-394/0, 10-12=-1049/0, 10-13=-4/372, 9-13=-271/5, 7-15=-1194/0, 7-14=0/684, 8-14=-441/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 11,2022

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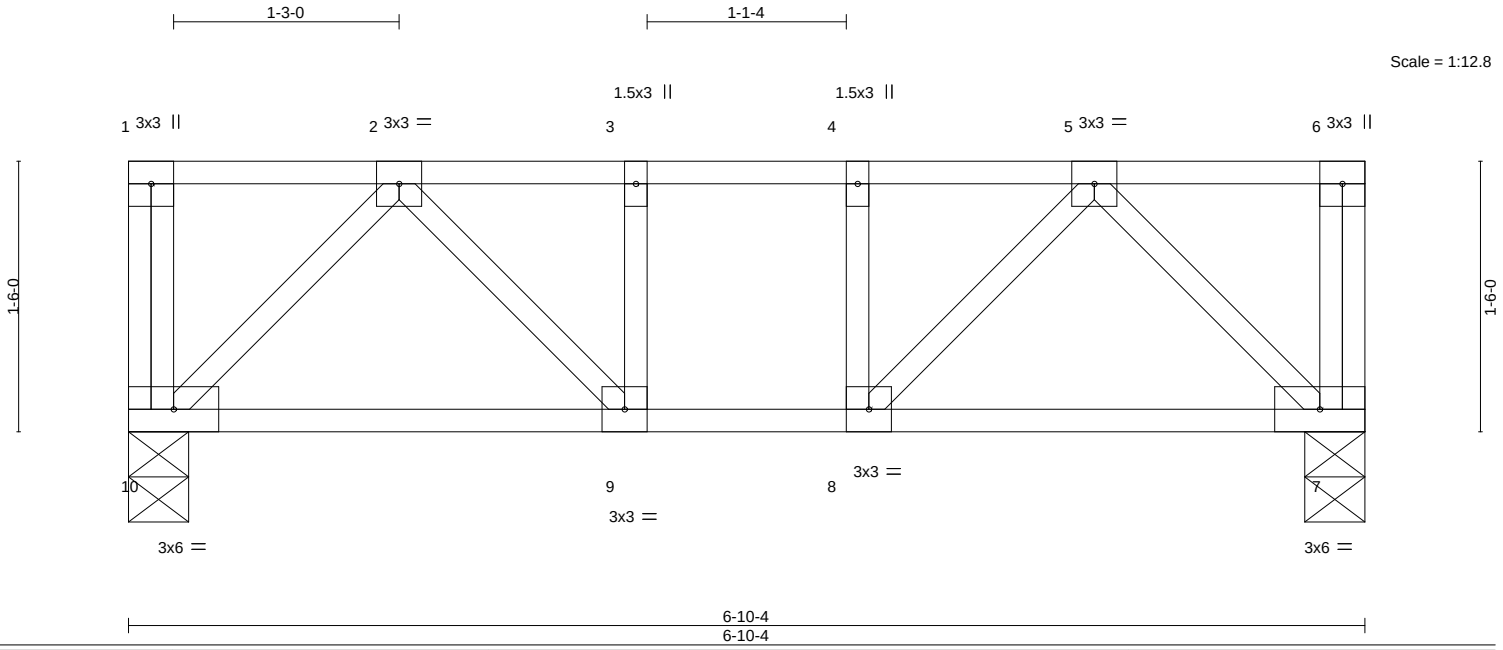
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F83	Floor	8	1	I50173906
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:00 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-t35DvlwDEbyw0?jOSY3FPttCi?gTZLTJlkdrjVzmZ4b



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F84	Floor	3	1	I50173907
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:03 2022 Page 1
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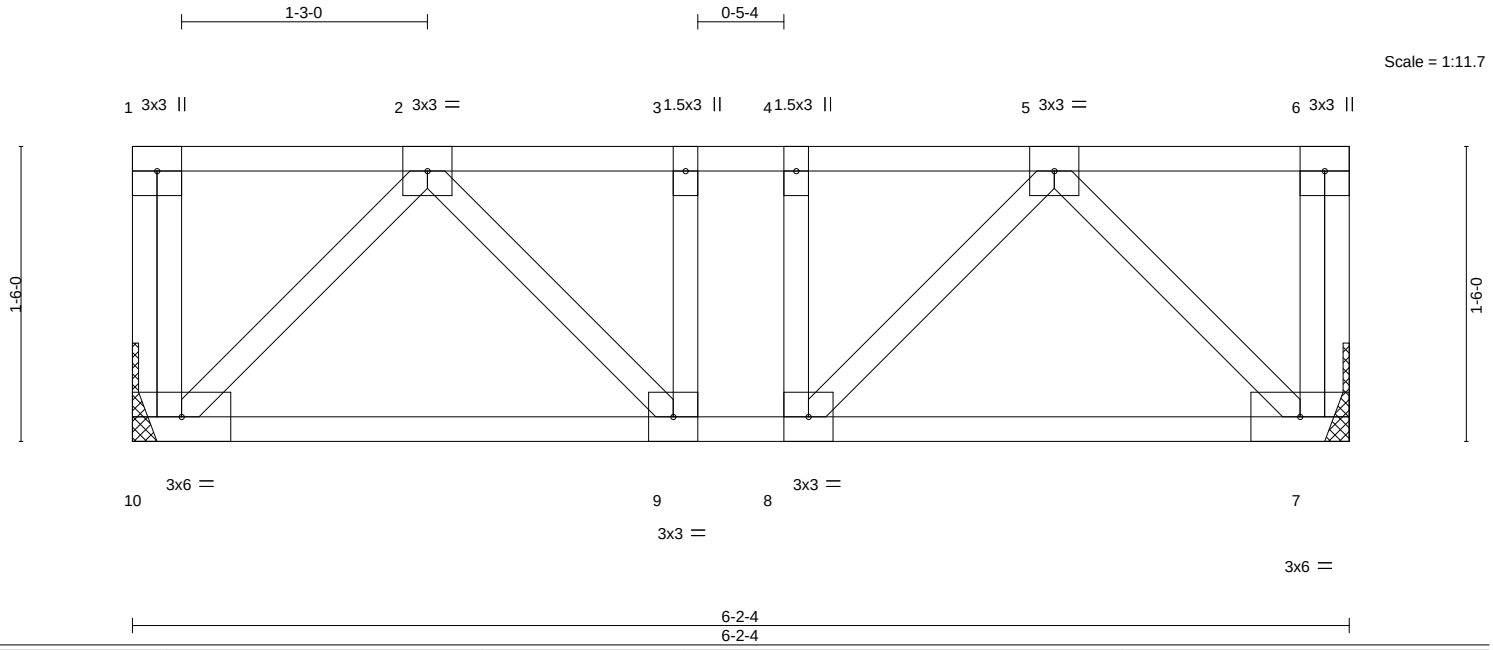

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=742(LC 1), 7=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/0, 3-4=-808/0, 4-5=-808/0
BOT CHORD 9-10=0/600, 8-9=0/808, 7-8=0/600
WEBS 2-10=-848/0, 2-9=0/360, 5-7=-848/0, 5-8=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F85	Floor	1	1	I50173908
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:06 2022 Page 1
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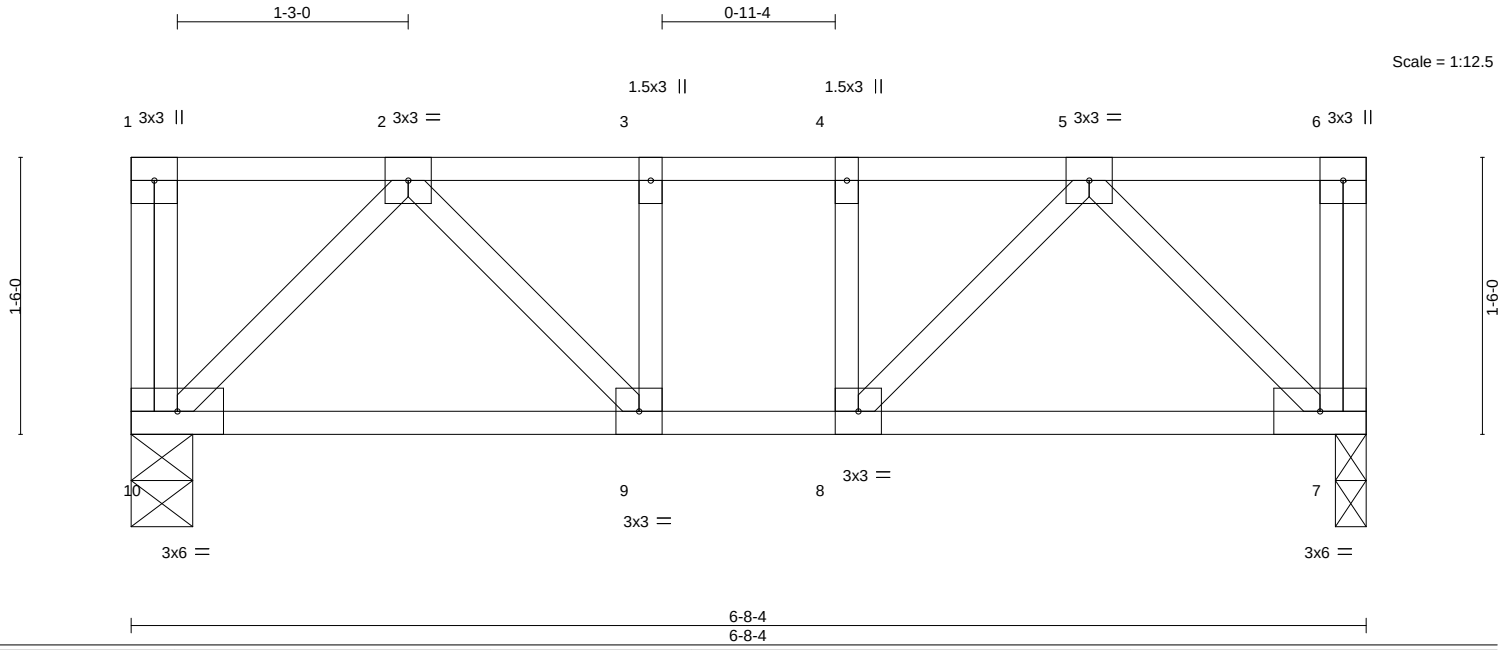

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-2-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/468, 3-9=-266/0, 5-7=-934/0, 5-8=0/468, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F86	Floor	3	1	I50173909
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:08 2022 Page 1
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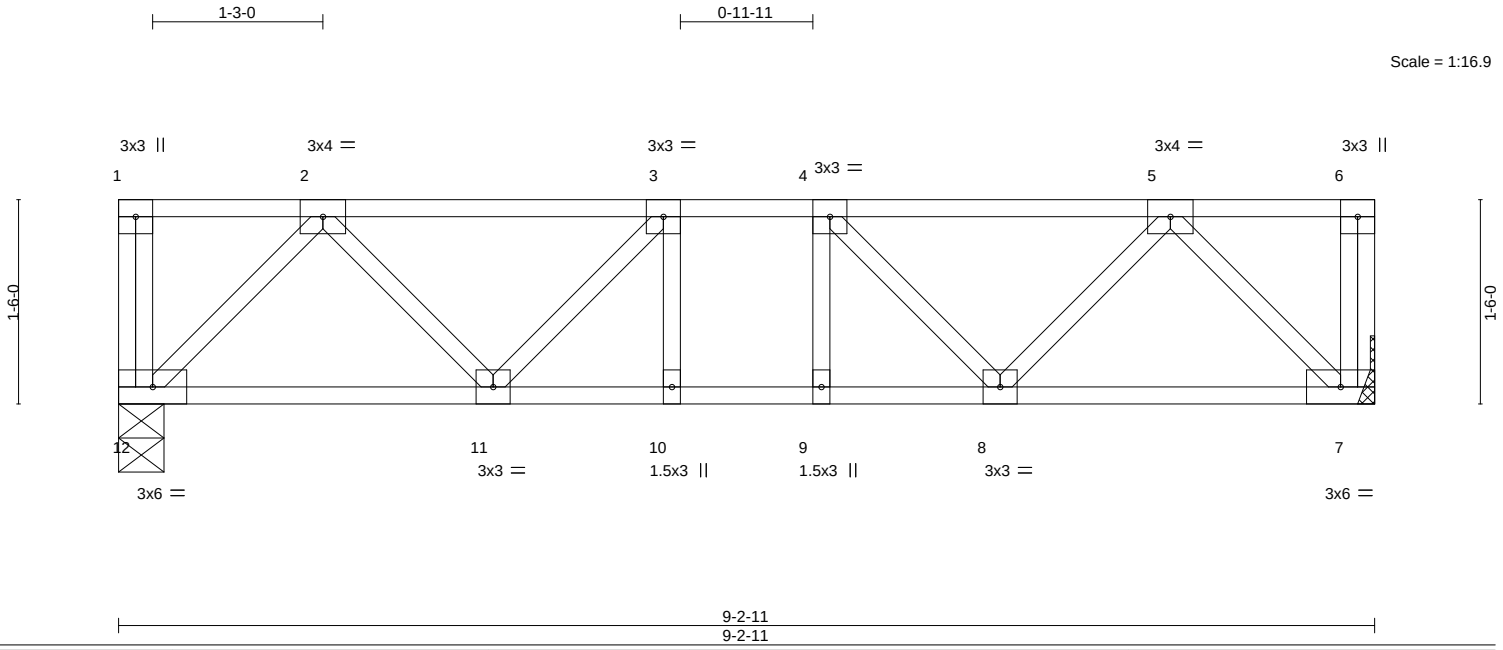

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=Mechanical
Max Grav 12=1122(LC 1), 7=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1448/0, 3-4=-1864/0, 4-5=-1448/0
BOT CHORD	11-12=0/1027, 10-11=0/1864, 9-10=0/1864, 8-9=0/1864, 7-8=0/1027
WEBS	2-12=-1453/0, 2-11=0/625, 3-11=-639/0, 5-7=-1453/0, 5-8=0/625, 4-8=-639/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F87	Floor	3	1	I50173910
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:09 2022 Page 1
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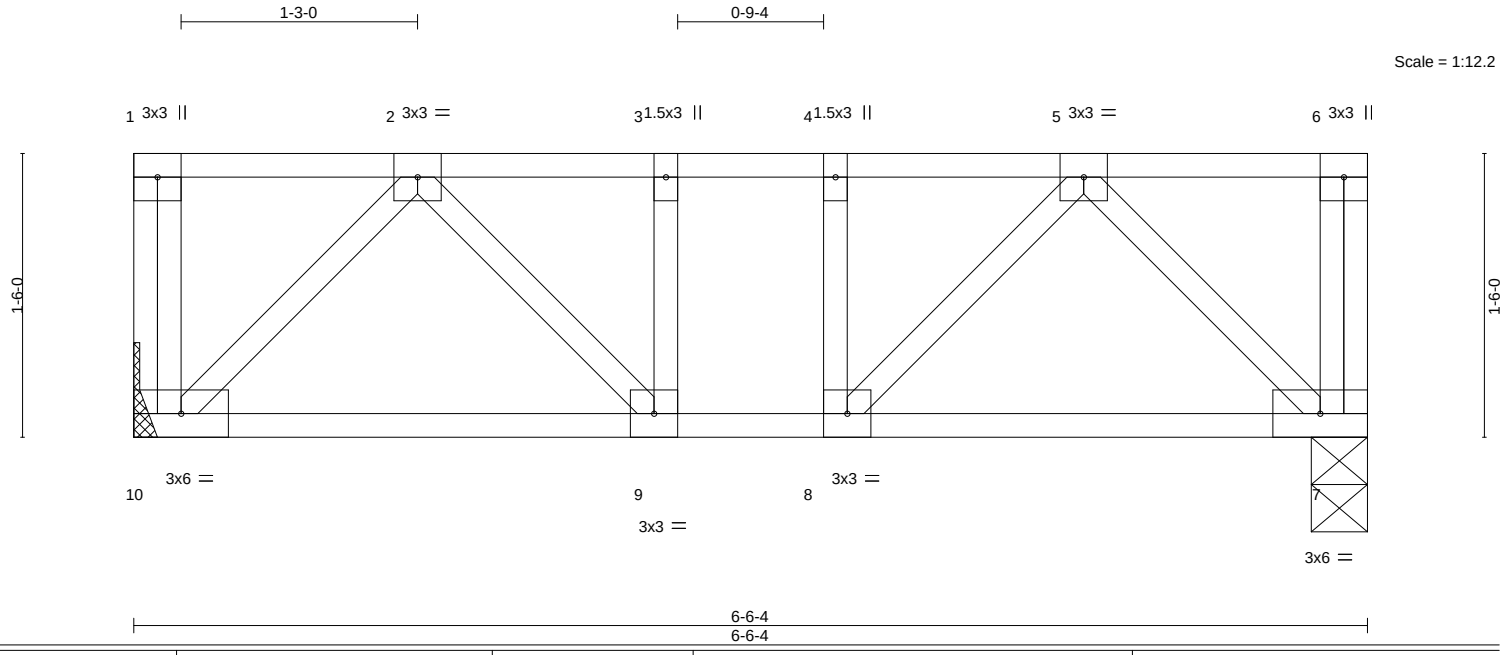

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-3-9
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F88	Floor	2	1	I50173911
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:11 2022 Page 1
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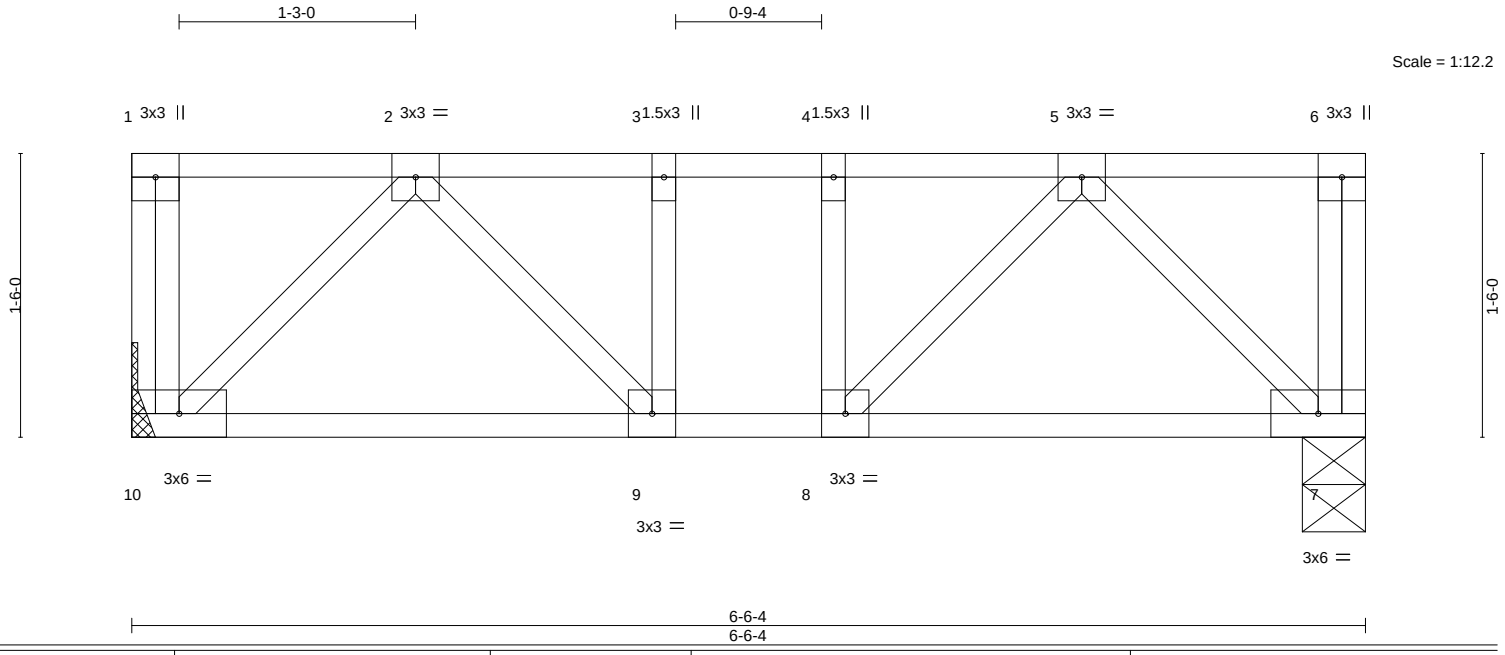

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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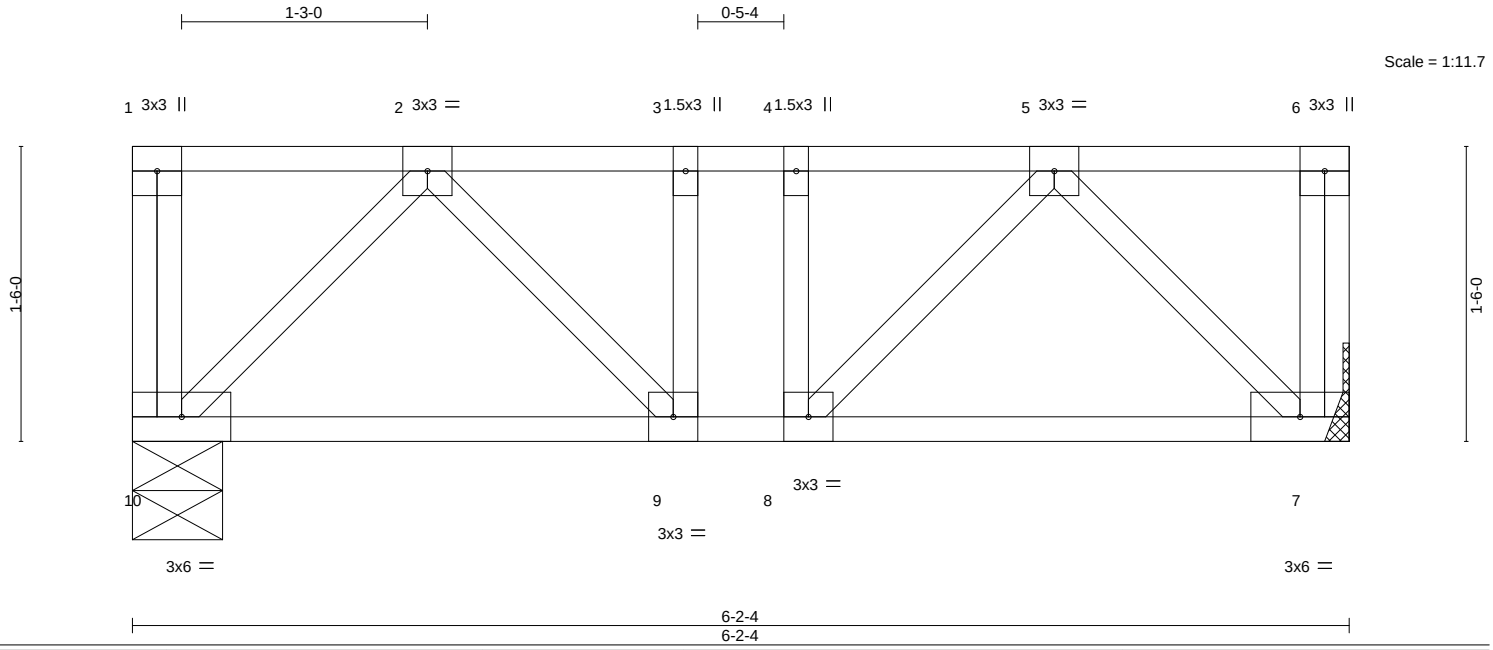
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F89	FLOOR	2	1	I50173912
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WMpmQs3lPHTDSrei93G3uPNGBqoANm14WbXU8pzmZ4P



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 7=Mechanical
Max Grav 10=742(LC 1), 7=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-808/0, 3-4=-808/0, 4-5=-808/0
BOT CHORD	9-10=0/600, 8-9=0/808, 7-8=0/600
WEBS	2-10=-848/0, 2-9=0/360, 5-7=-848/0, 5-8=0/360

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F90	Floor	5	1	I50173913
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:16 2022 Page 1
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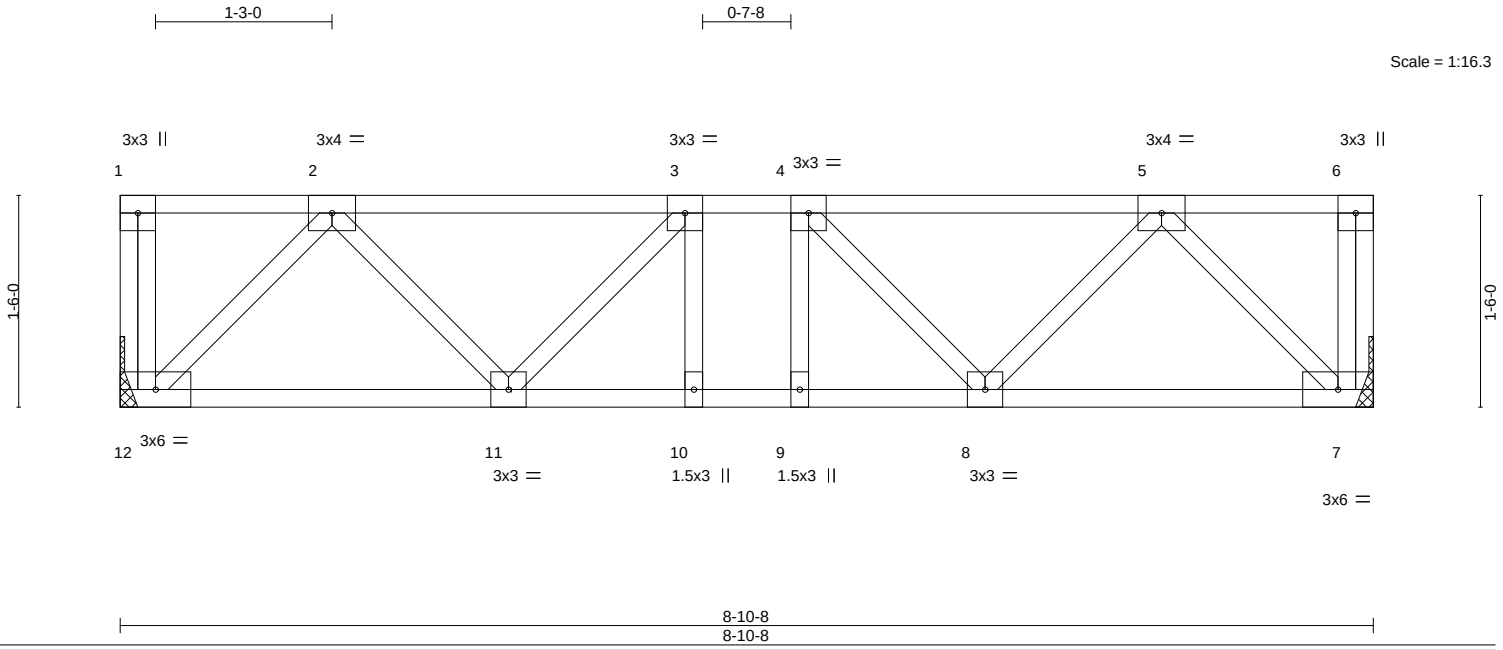

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.04	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1078(LC 1), 7=1078(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1367/0, 3-4=-1744/0, 4-5=-1367/0
BOT CHORD	11-12=0/982, 10-11=0/1744, 9-10=0/1744, 8-9=0/1744, 7-8=0/982
WEBS	2-12=-1389/0, 2-11=0/571, 3-11=-562/0, 3-10=-252/260, 5-7=-1389/0, 5-8=0/571, 4-8=-562/0, 4-9=-252/260

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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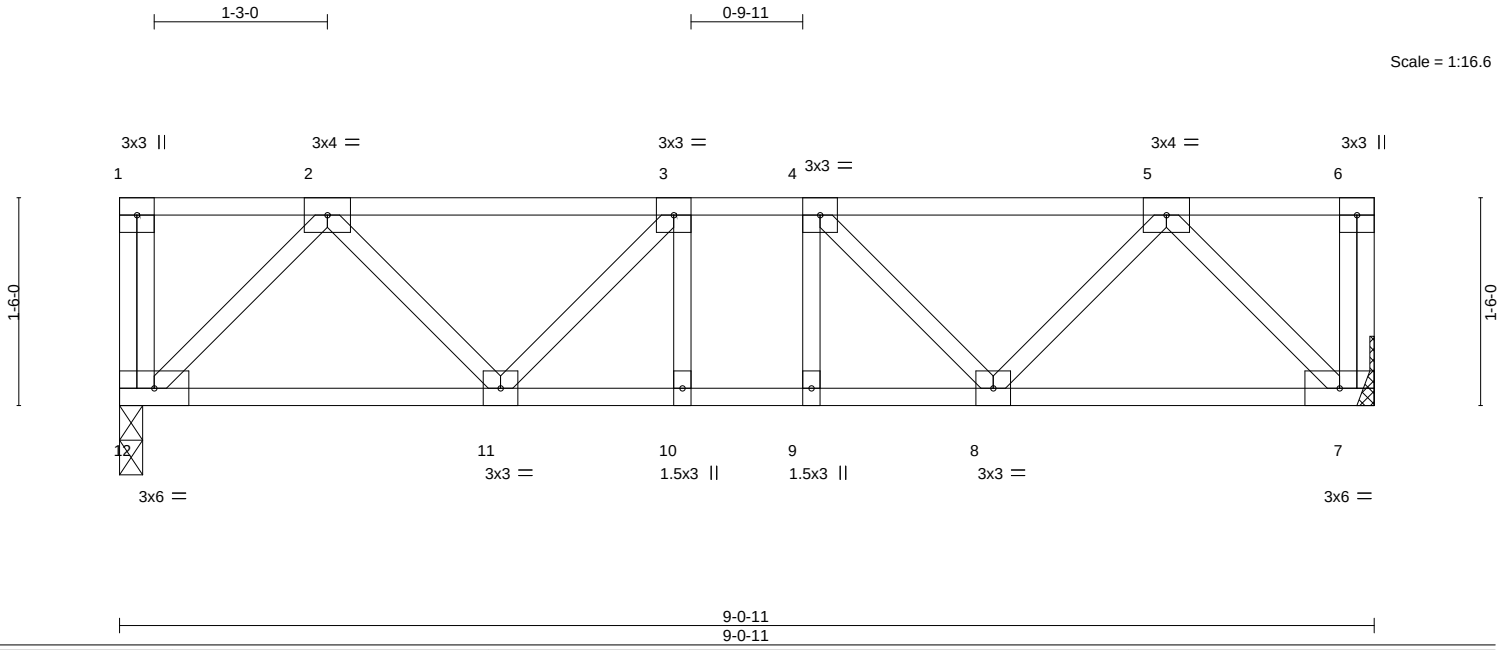
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F91	Floor	2	1	I50173914
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:17 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-tKdeTZ7tEp6WYcWfycsEbS40prMK2?7pgtFFp0zmZ4K



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=Mechanical
Max Grav 12=1101(LC 1), 7=1101(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1409/0, 3-4=-1806/0, 4-5=-1409/0
BOT CHORD	11-12=0/1006, 10-11=0/1806, 9-10=0/1806, 8-9=0/1806, 7-8=0/1006
WEBS	2-12=-1423/0, 2-11=0/598, 3-11=-602/0, 5-7=-1423/0, 5-8=0/598, 4-8=-602/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F92	FLOOR	1	1	I50173915
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:18 2022 Page 1
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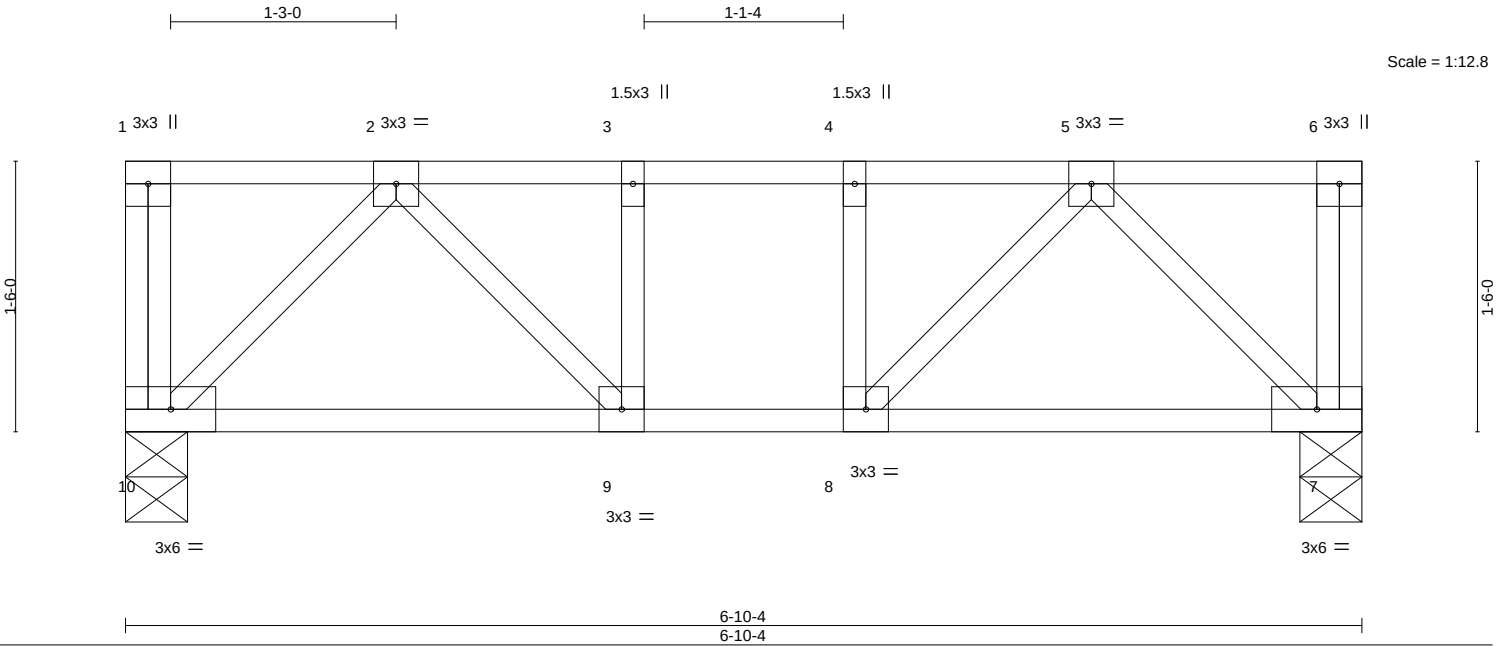

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-4-2
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F93	Floor	3	1	I50173916
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:19 2022 Page 1
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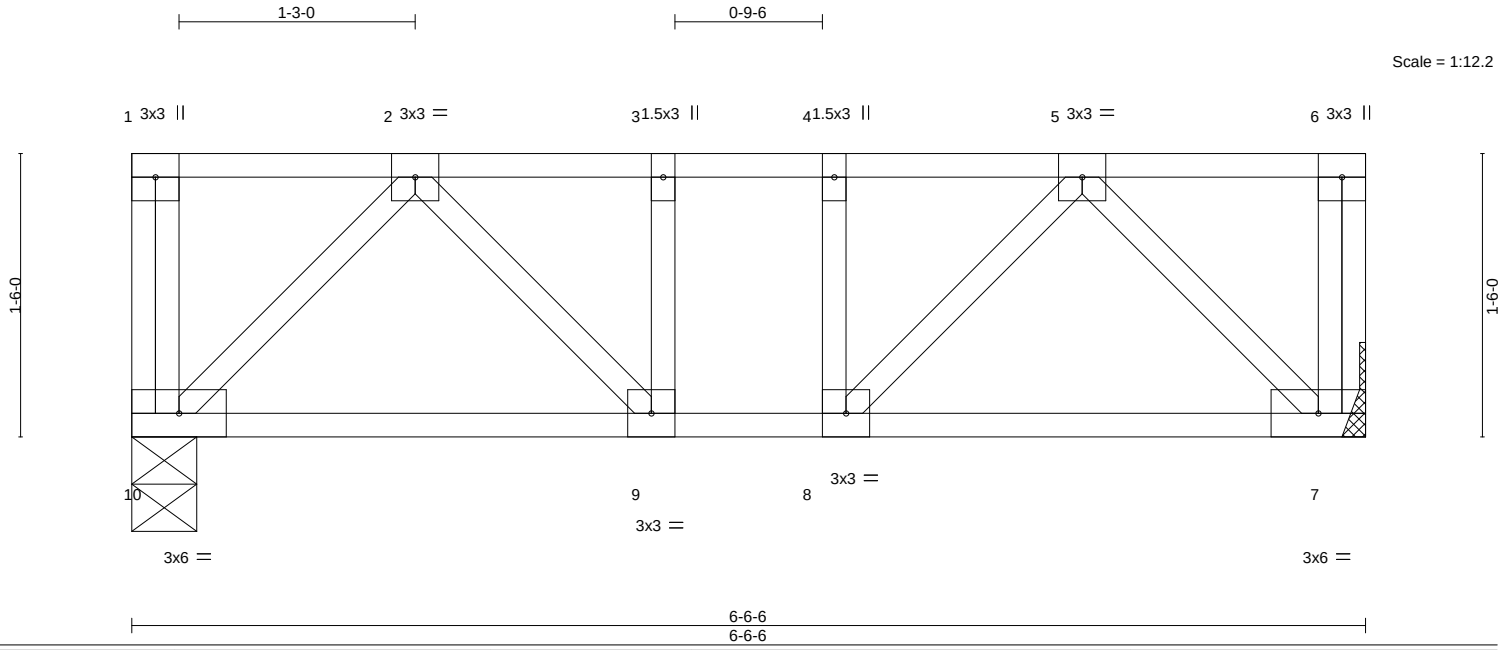

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=Mechanical
Max Grav 10=785(LC 1), 7=785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-893/0, 3-4=-893/0, 4-5=-893/0
BOT CHORD	9-10=0/642, 8-9=0/893, 7-8=0/642
WEBS	2-10=-907/0, 2-9=0/433, 5-7=-907/0, 5-8=0/433

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F94	FLOOR	1	1	I50173917
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:20 2022 Page 1
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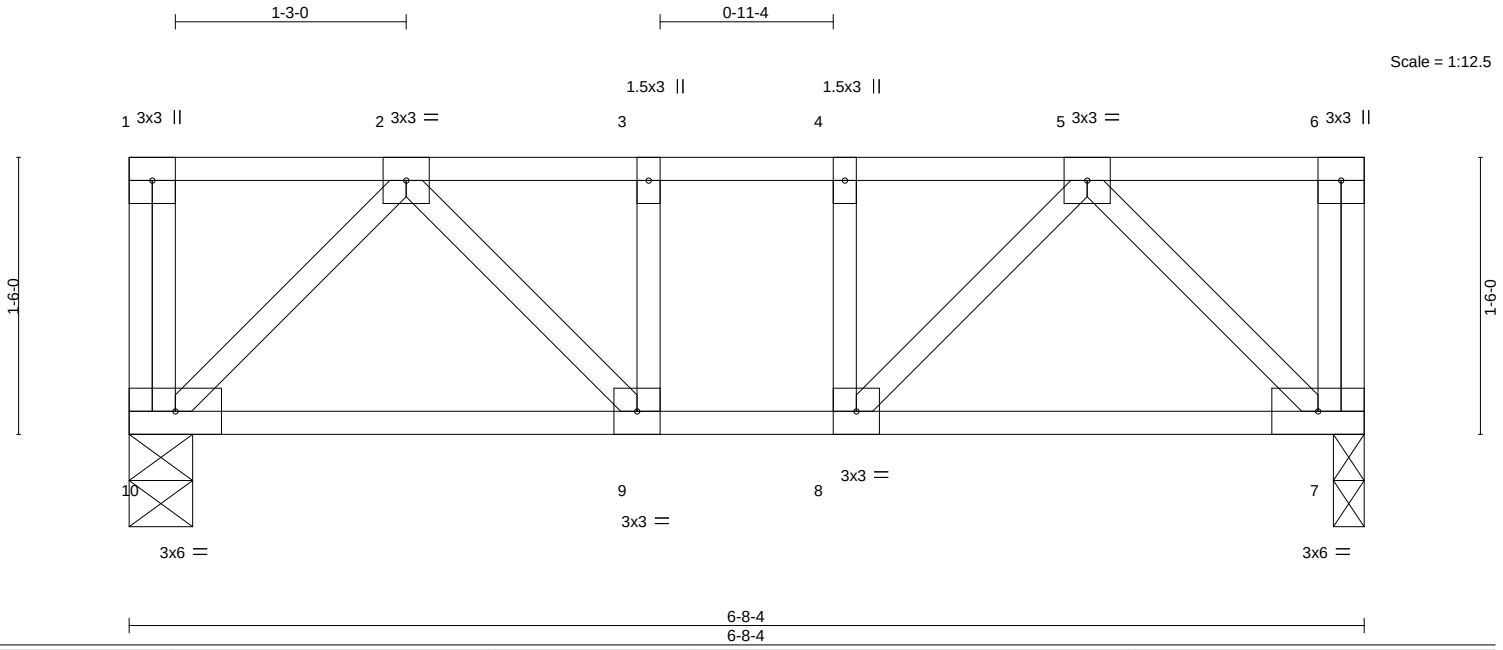

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-2-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/468, 3-9=-266/0, 5-7=-934/0, 5-8=0/468, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F95	Floor	3	1	I50173918
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:21 2022 Page 1
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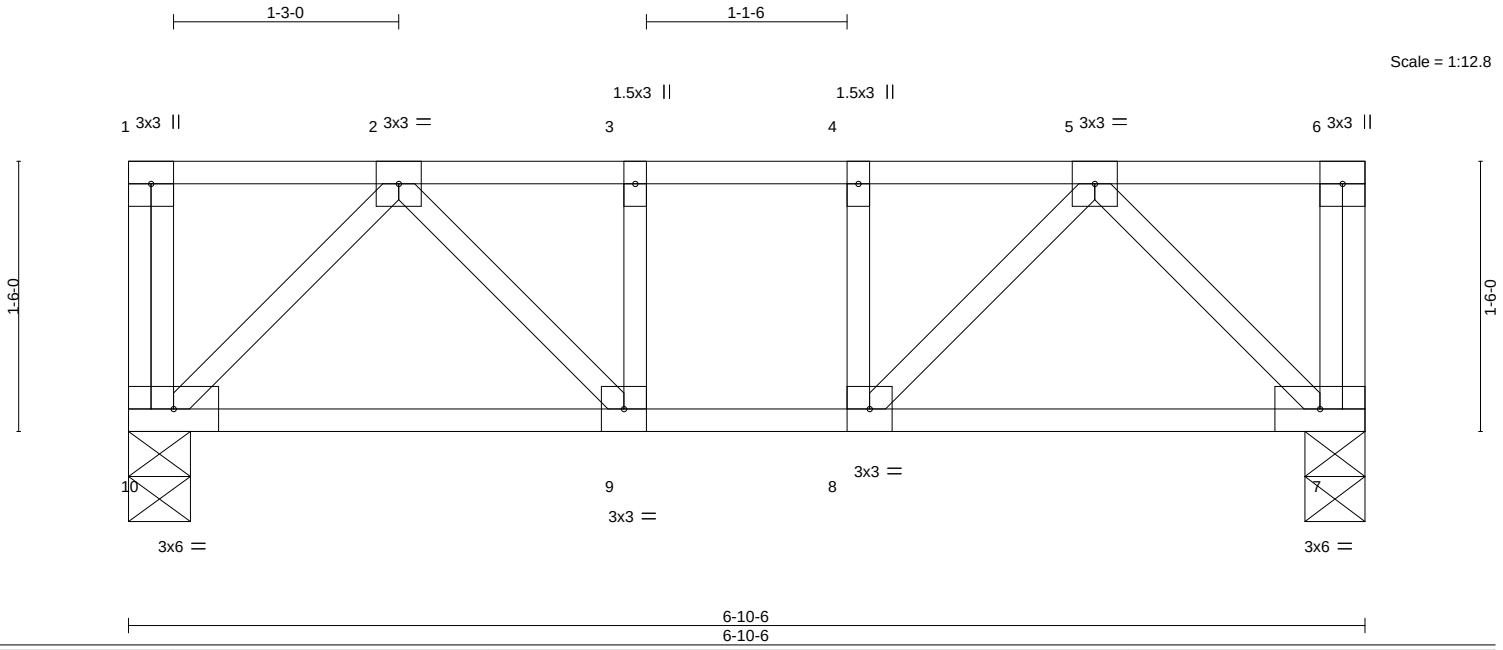

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-2, 7=0-4-0
Max Grav 10=827(LC 1), 7=827(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-980/0, 3-4=-980/0, 4-5=-980/0
BOT CHORD	9-10=0/682, 8-9=0/980, 7-8=0/682
WEBS	2-10=-964/0, 2-9=0/509, 3-9=-294/0, 5-7=-964/0, 5-8=0/509, 4-8=-294/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F96	Floor	4	1	I50173919
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:22 2022 Page 1
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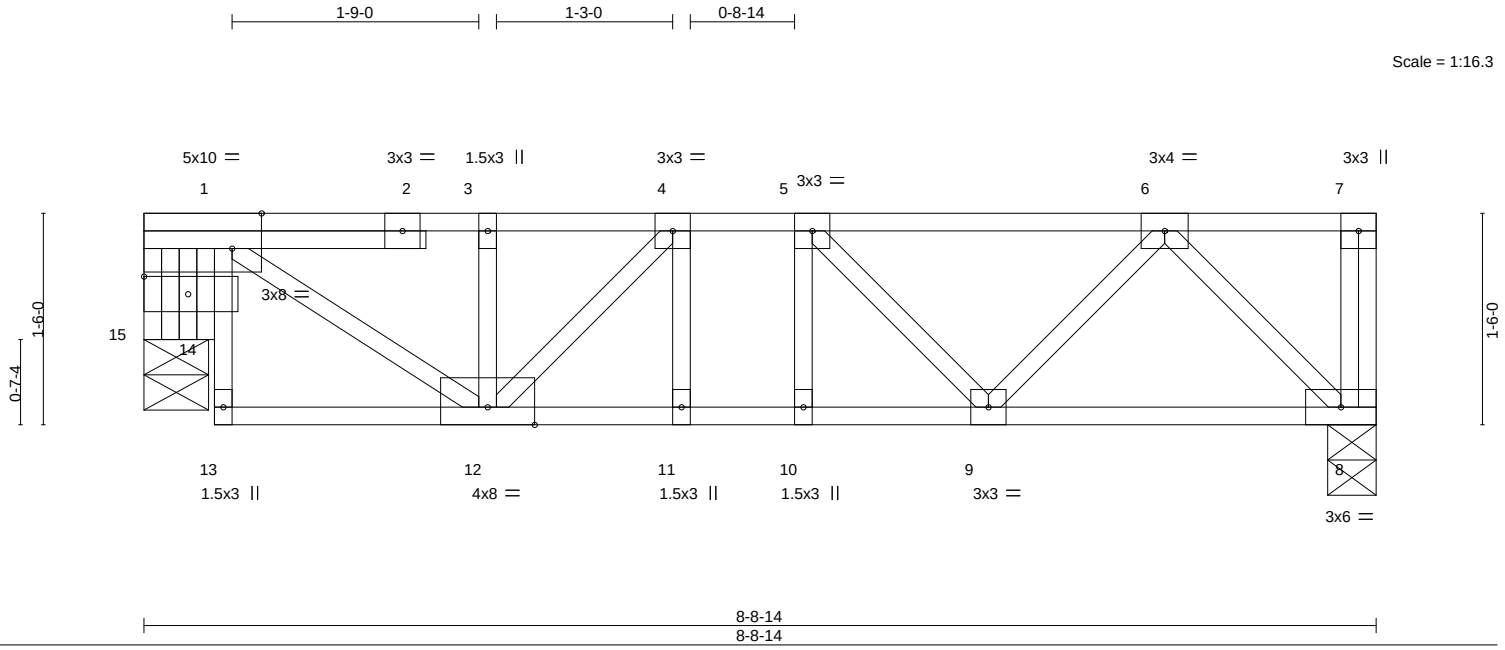

Plate Offsets (X,Y)-- [1:0-2-8,Edge], [15:0-3-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-2, 15=0-5-8
Max Grav 8=1027(LC 1), 15=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1172/0, 3-4=-1164/0, 4-5=-1552/0, 5-6=-1269/0
BOT CHORD	11-12=0/1552, 10-11=0/1552, 9-10=0/1552, 8-9=0/939
WEBS	1-12=0/1258, 3-12=-421/15, 4-12=-670/0, 6-8=-1328/0, 6-9=0/491, 5-9=-445/0, 5-10=-258/102, 4-11=-87/270, 1-15=-1021/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F97	Floor	2	1	I50173920
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:23 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hU_wkdCeqfsfGX_pJtzeqjK4CGU5Sk5i2piZ1gzmZ4E

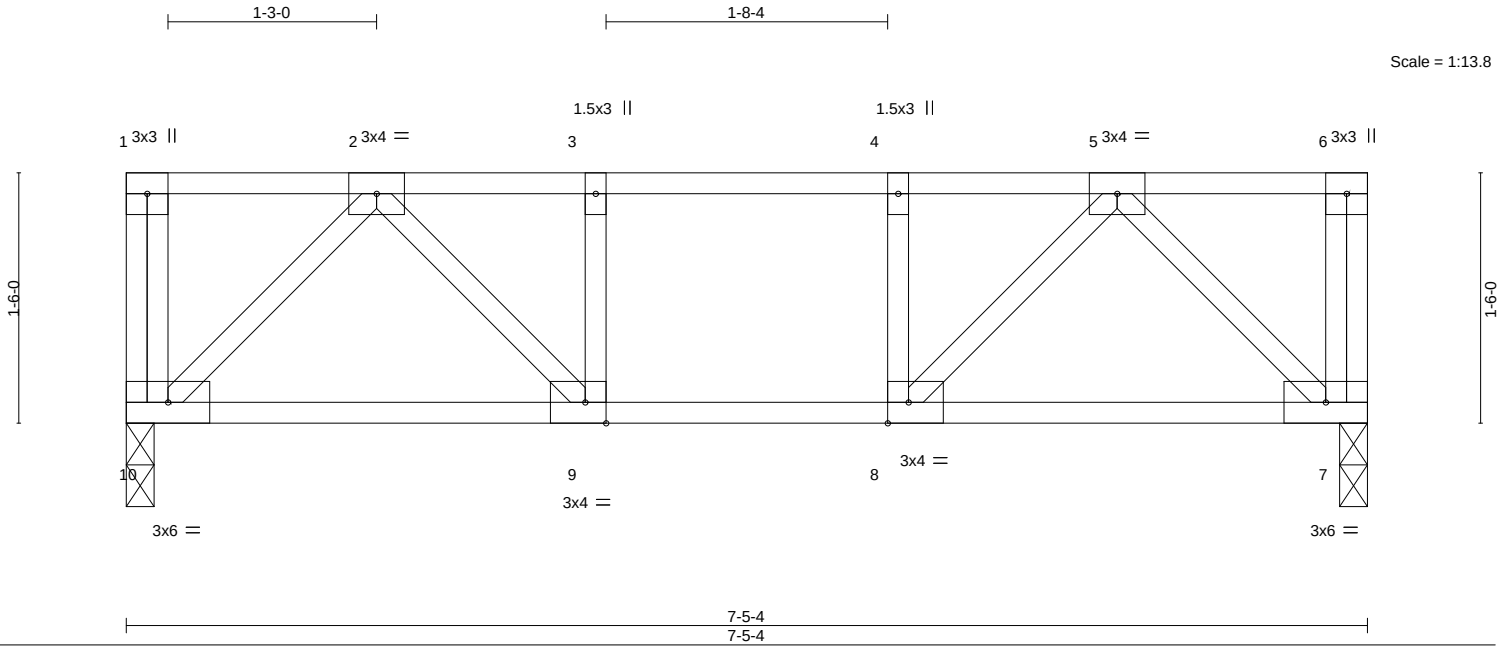

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-2-0
Max Grav 10=898(LC 1), 7=898(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1138/0, 3-4=-1138/0, 4-5=-1138/0
BOT CHORD 9-10=0/749, 8-9=0/1138, 7-8=0/749
WEBS 2-10=-1059/0, 2-9=0/653, 5-7=-1059/0, 5-8=0/653, 4-8=-395/0, 3-9=-395/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F98	FLOOR	14	1	I50173921
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:26 2022 Page 1
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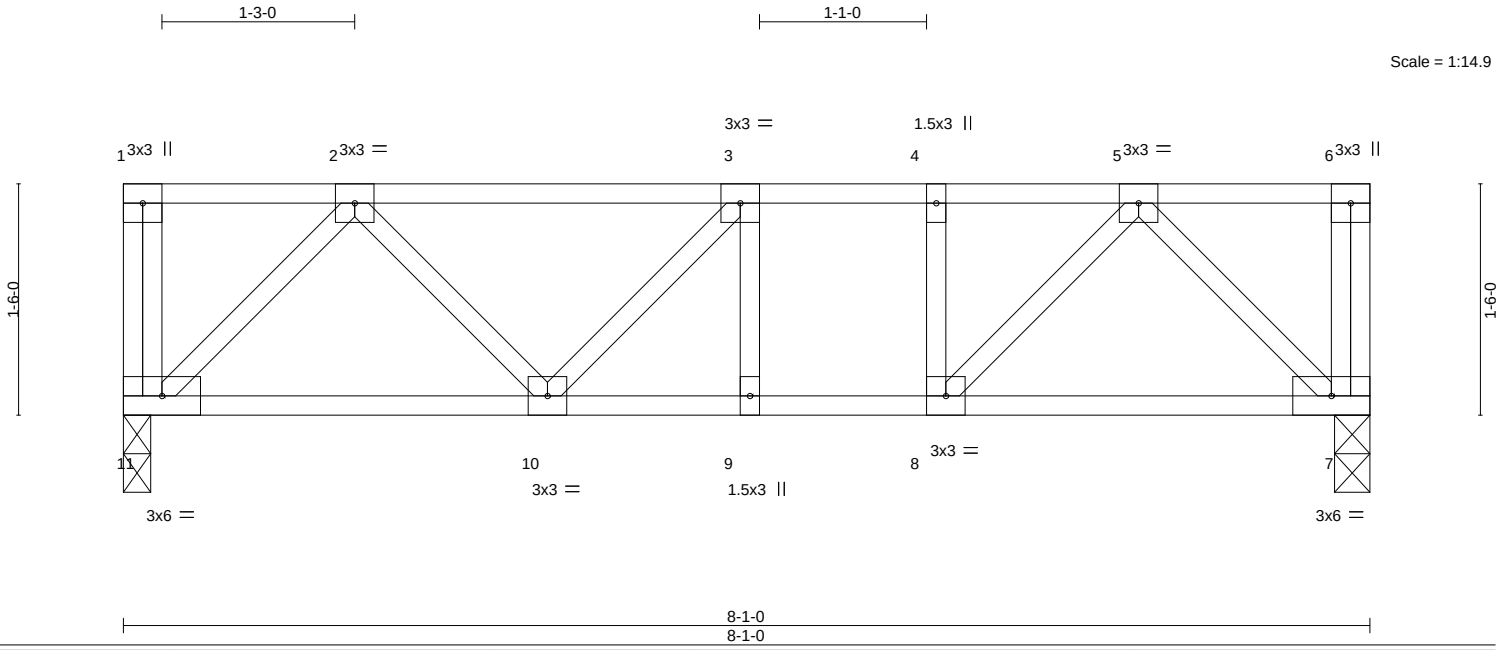

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-2, 7=0-2-12
Max Grav 11=509(LC 1), 7=509(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-615/0, 3-4=-709/0, 4-5=-709/0
BOT CHORD	10-11=0/465, 9-10=0/709, 8-9=0/709, 7-8=0/436
WEBS	2-11=-658/0, 5-7=-616/0, 5-8=0/411

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F99	FLOOR	1	1	I50173922
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:27 2022 Page 1
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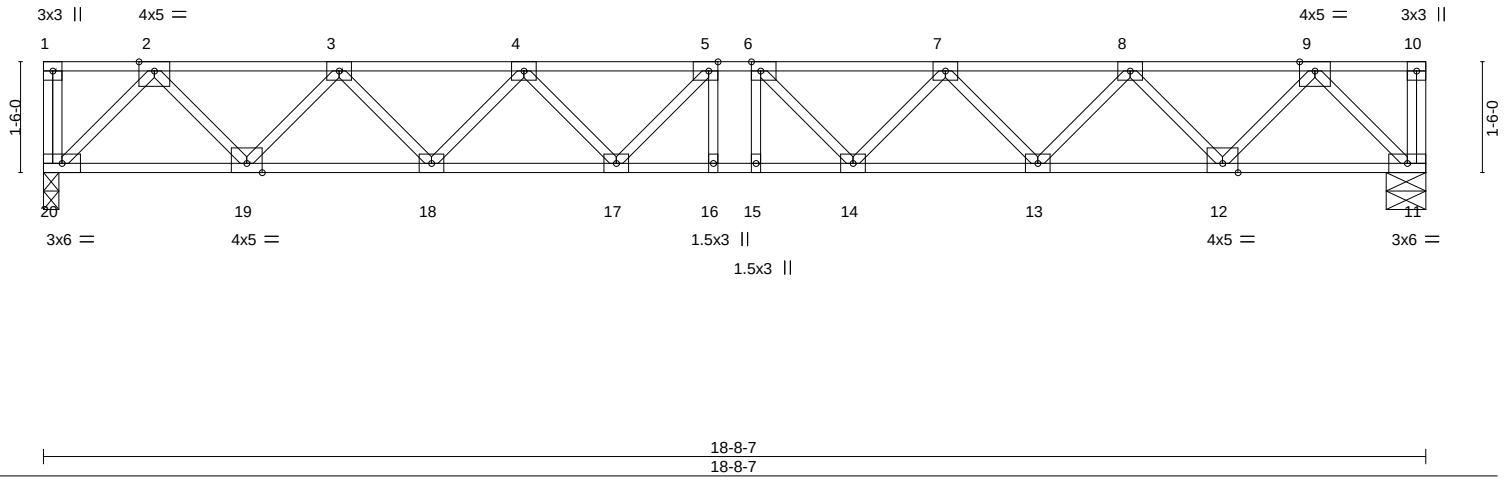

18-8-7
18-8-7

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.21	16	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.35	16	>640	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 104 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-8, 11=0-6-7
Max Grav 20=1199(LC 1), 11=1199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1936/0, 3-4=-3203/0, 4-5=-3866/0, 5-6=-4044/0, 6-7=-3866/0, 7-8=-3203/0, 8-9=-1936/0
BOT CHORD 19-20=0/1139, 18-19=0/2708, 17-18=0/3676, 16-17=0/4044, 15-16=0/4044, 14-15=0/4044, 13-14=0/3676, 12-13=0/2708, 11-12=0/1139
WEBS 2-20=-1610/0, 2-19=0/1185, 3-19=-1147/0, 3-18=0/736, 4-18=-703/0, 4-17=0/393, 5-17=-433/50, 9-11=-1610/0, 9-12=0/1185, 8-12=-1147/0, 8-13=0/736, 7-13=-703/0, 7-14=0/393, 6-14=-433/50

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F100	FLOOR	1	1	I50173923
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:50 2022 Page 1
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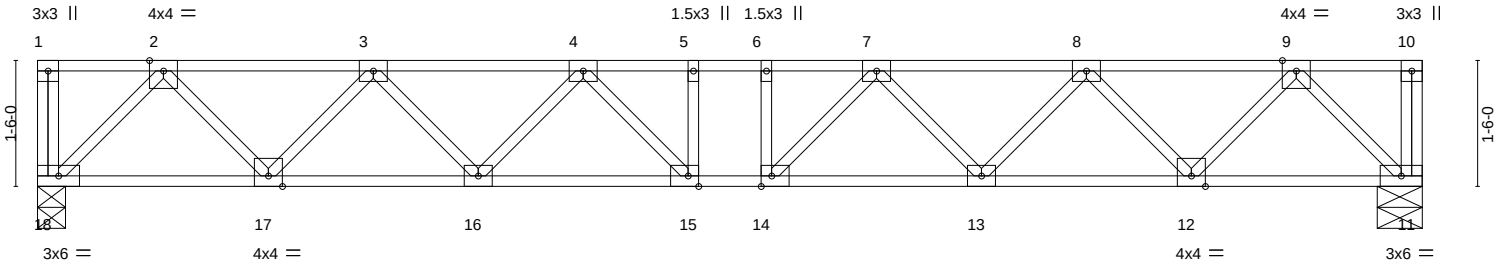

16-5-15
16-5-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.14	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	15	>865	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 92 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 11=0-6-7
Max Grav 18=1056(LC 1), 11=1056(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1664/0, 3-4=-2664/0, 4-5=-3107/0, 5-6=-3107/0, 6-7=-3107/0, 7-8=-2664/0, 8-9=-1664/0
BOT CHORD 17-18=0/994, 16-17=0/2309, 15-16=0/2997, 14-15=0/3107, 13-14=0/2997, 12-13=0/2309, 11-12=0/994
WEBS 2-18=-1406/0, 2-17=0/996, 3-17=-958/0, 3-16=0/528, 4-16=-495/0, 4-15=-106/385, 9-11=-1406/0, 9-12=0/996, 8-12=-958/0, 8-13=0/528, 7-13=-495/0, 7-14=-106/385

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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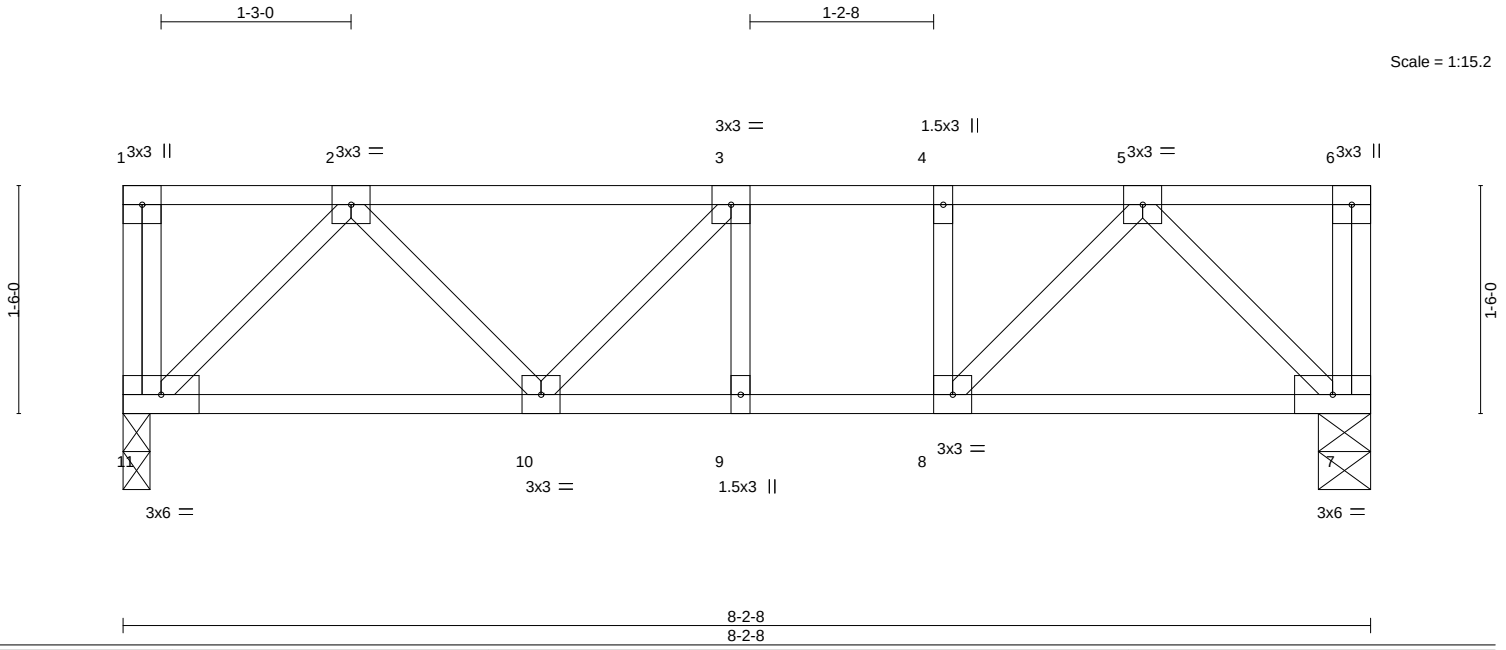
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F101	FLOOR	2	1	I50173924
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-8EoSqeMIdyiD1AMbPyF?gg18h?bpq?6K59tXhUzmZ6c



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-2, 7=0-4-2
Max Grav 11=517(LC 1), 7=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-630/0, 3-4=-729/0, 4-5=-729/0
BOT CHORD	10-11=0/474, 9-10=0/729, 8-9=0/729, 7-8=0/444
WEBS	2-11=-670/0, 5-7=-628/0, 5-8=0/429

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F102	Floor	1	1	I50173925
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:52 2022 Page 1
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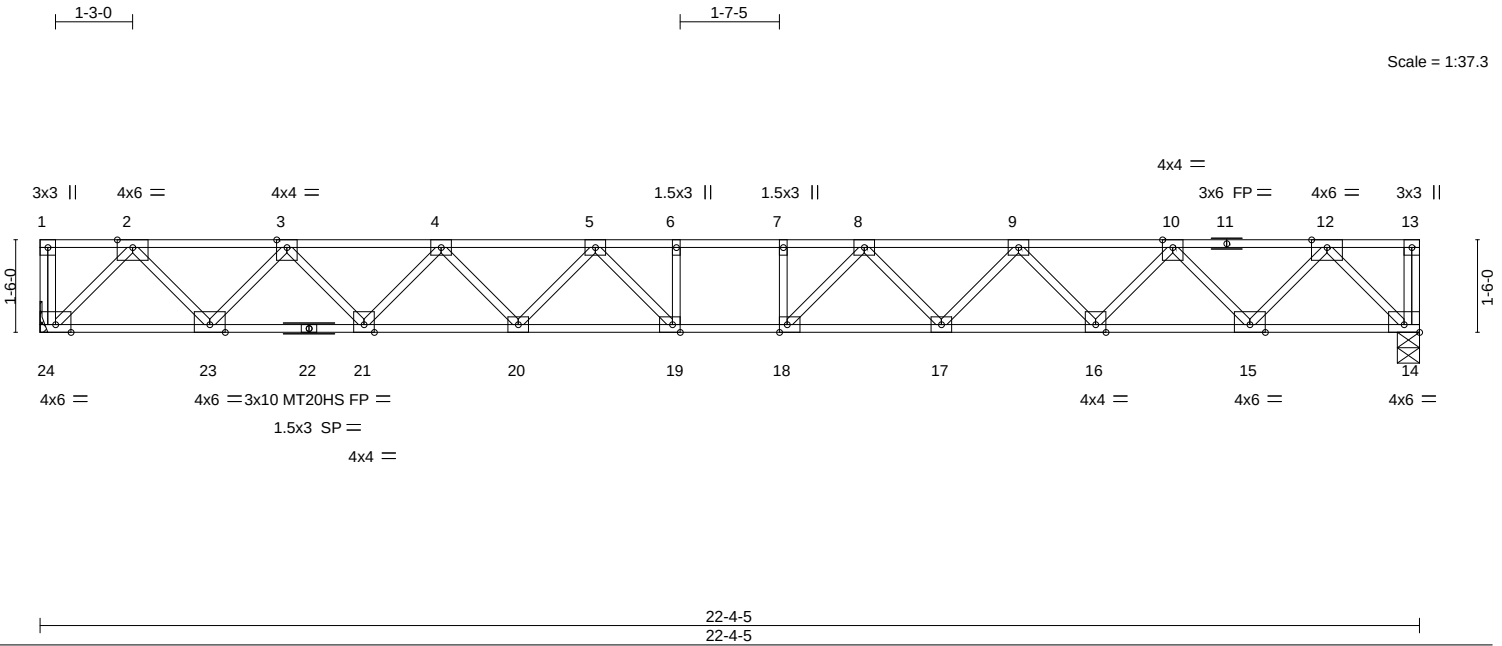

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.39	18-19	>675	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.64	18-19	>416	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=Mechanical, 14=0-4-5
Max Grav 24=1437(LC 1), 14=1437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2389/0, 3-4=-4085/0, 4-5=-5182/0, 5-6=-5741/0, 6-7=-5741/0, 7-8=-5741/0, 8-9=-5182/0, 9-10=-4085/0, 10-12=-2388/0
BOT CHORD 23-24=0/1376, 21-23=0/3375, 20-21=0/4774, 19-20=0/5567, 18-19=0/5741, 17-18=0/5567, 16-17=0/4773, 15-16=0/3375, 14-15=0/1375
WEBS 2-24=-1946/0, 2-23=0/1506, 3-23=-1466/0, 3-21=0/1054, 4-21=-1024/0, 4-20=0/607, 5-20=-597/0, 5-19=-163/630, 6-19=-304/6, 12-14=-1945/0, 12-15=0/1506, 10-15=-1468/0, 10-16=0/1055, 9-16=-1024/0, 9-17=0/608, 8-17=-597/0, 8-18=-163/630, 7-18=-304/7

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	F103	FLOOR	1	1	I50173926
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:11:53 2022 Page 1
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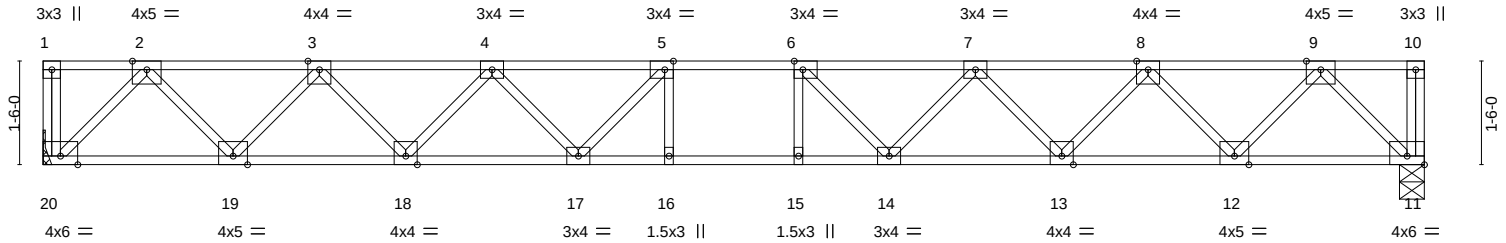

20-0-0
20-0-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.25	15-16	>943	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.41	15-16	>579	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 107 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=Mechanical, 11=0-4-5
Max Grav 20=1284(LC 1), 11=1284(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2096/0, 3-4=-3516/0, 4-5=-4331/0, 5-6=-4592/0, 6-7=-4331/0, 7-8=-3516/0, 8-9=-2096/0
BOT CHORD 19-20=0/1223, 18-19=0/2944, 17-18=0/4065, 16-17=0/4592, 15-16=0/4592, 14-15=0/4592, 13-14=0/4065, 12-13=0/2944, 11-12=0/1223
WEBS 2-20=-1729/0, 2-19=0/1299, 3-19=-1261/0, 3-18=0/850, 4-18=-816/0, 4-17=0/508, 5-17=-648/18, 9-11=-1729/0, 9-12=0/1299, 8-12=-1261/0, 8-13=0/850, 7-13=-816/0, 7-14=0/508, 6-14=-648/18

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW1	GABLE	2	1	I50173927
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:29 2022 Page 1
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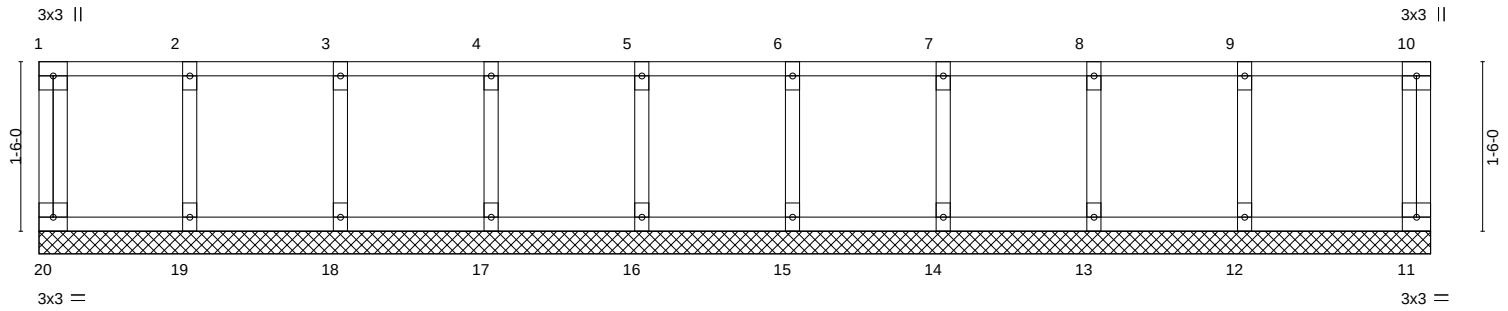

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW2	GABLE	1	1	I50173928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:43 2022 Page 1
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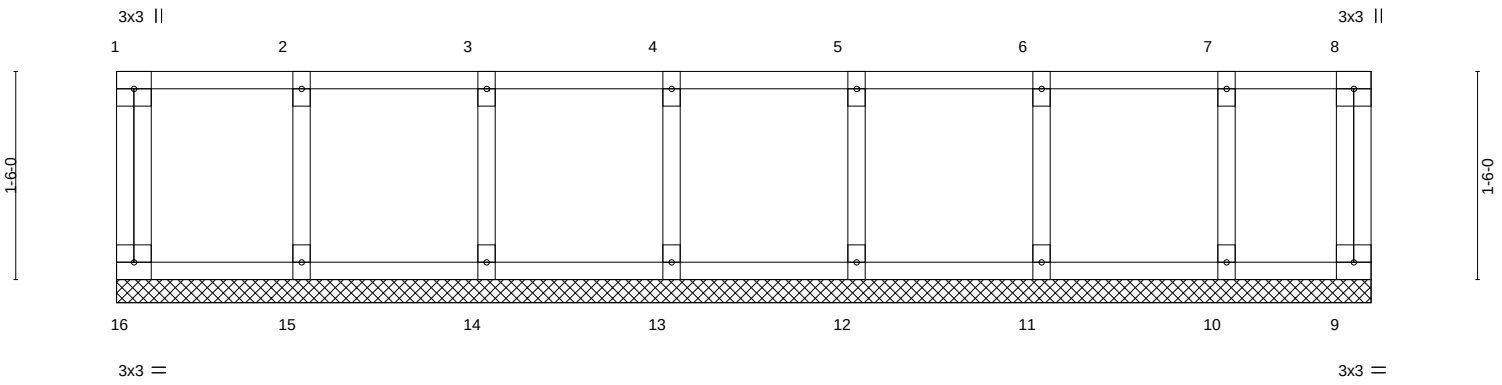

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-0-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 45 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-0-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW3	GABLE	1	1	I50173929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:50 2022 Page 1
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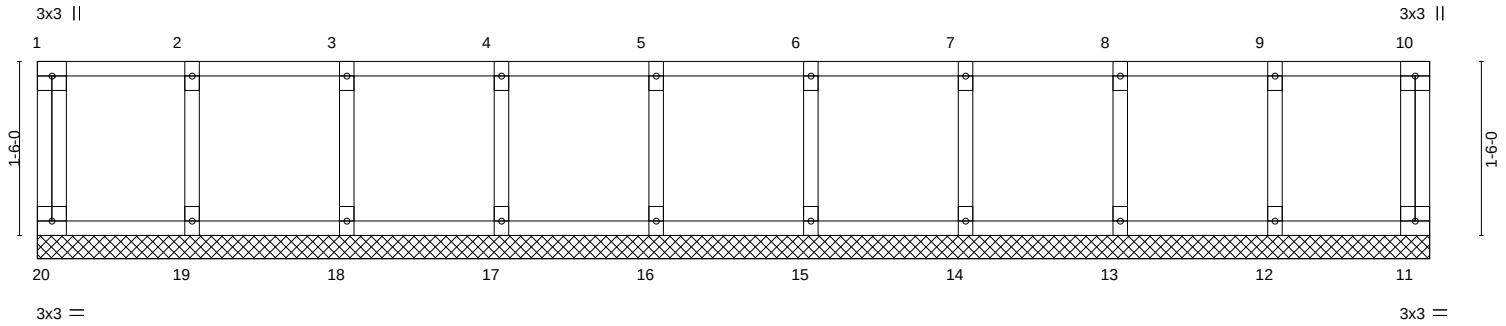

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW4	GABLE	6	1	I50173930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:53 2022 Page 1
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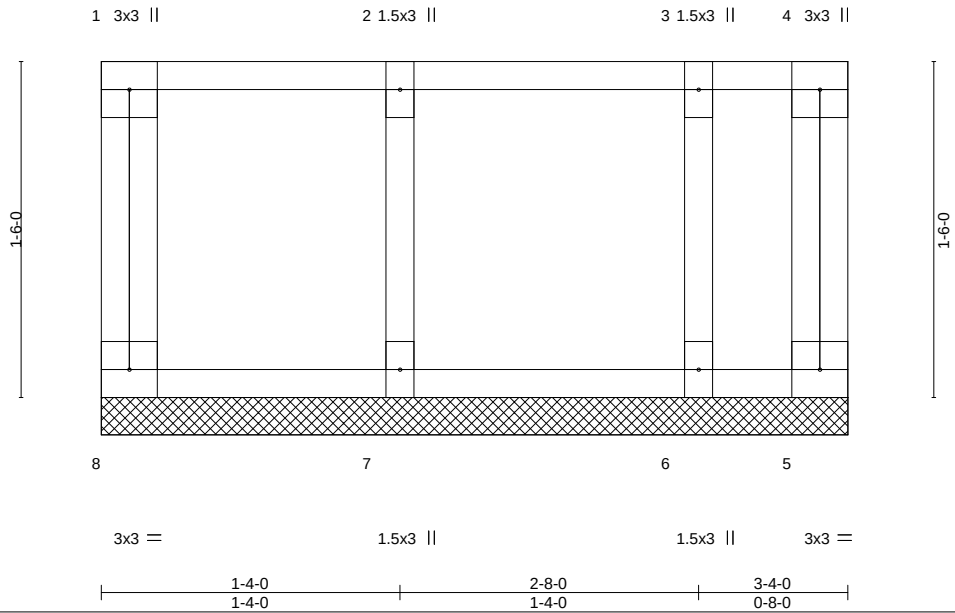

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW5	GABLE	2	1	I50173931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:54 2022 Page 1
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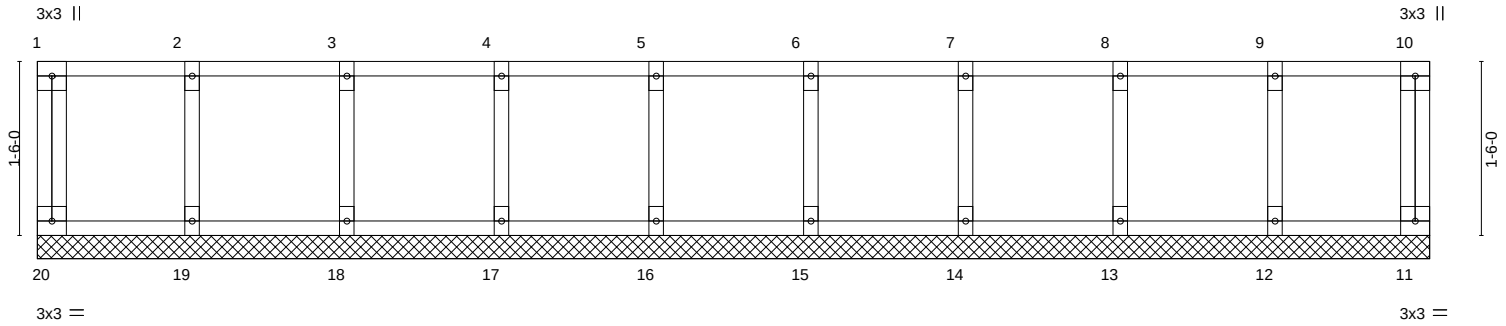

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW6	GABLE	1	1	I50173932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:55 2022 Page 1
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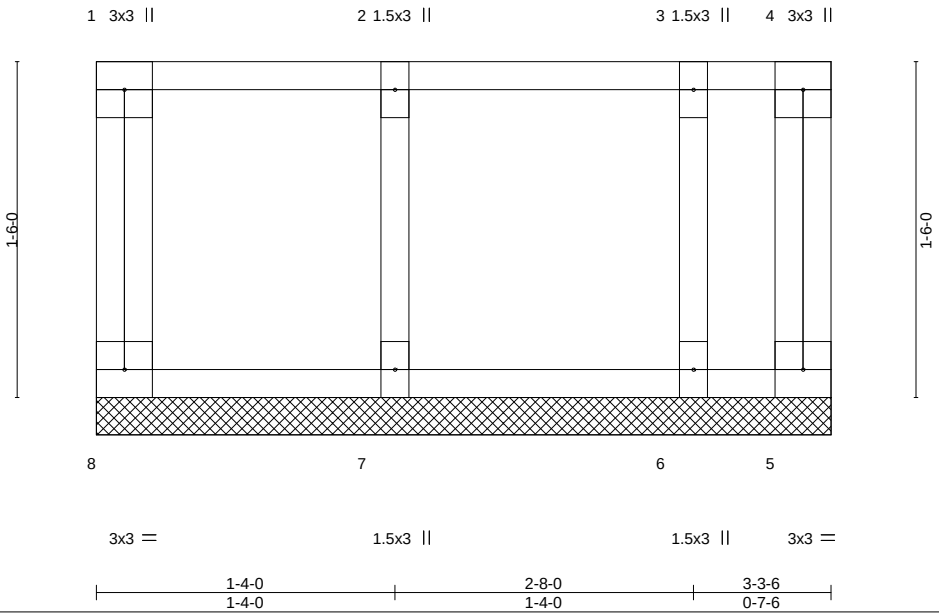

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW7	GABLE	1	1	I50173933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:55 2022 Page 1
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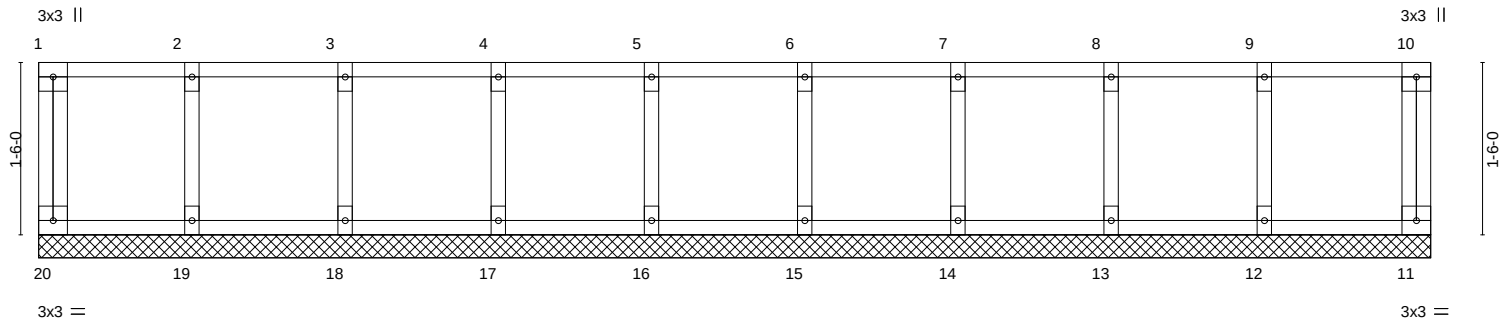

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW8	GABLE	1	1	I50173934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:56 2022 Page 1
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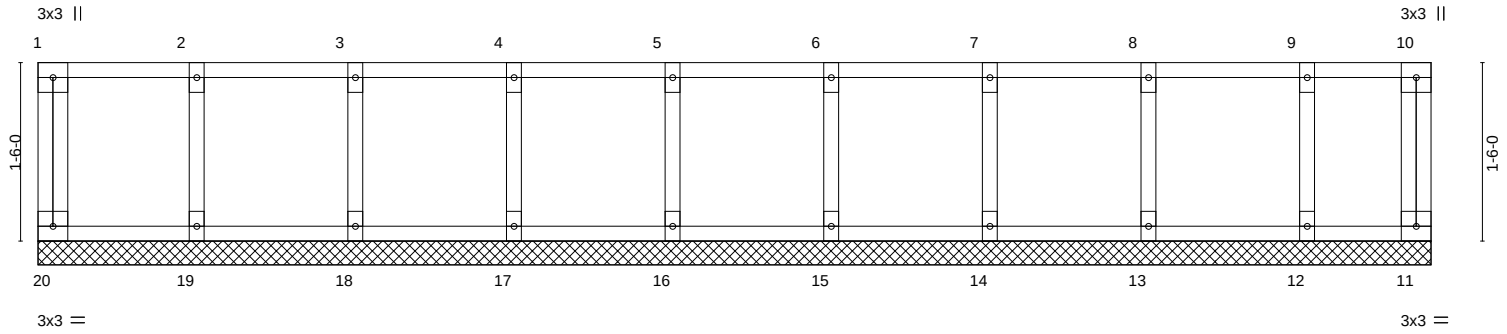

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW9	GABLE	1	1	I50173935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:57 2022 Page 1
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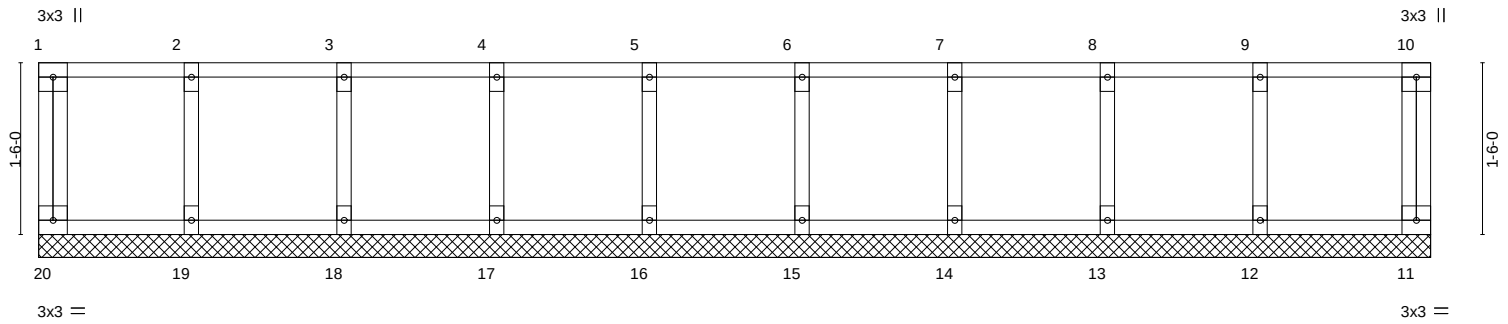

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-14

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW10	GABLE	1	1	I50173936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:31 2022 Page 1
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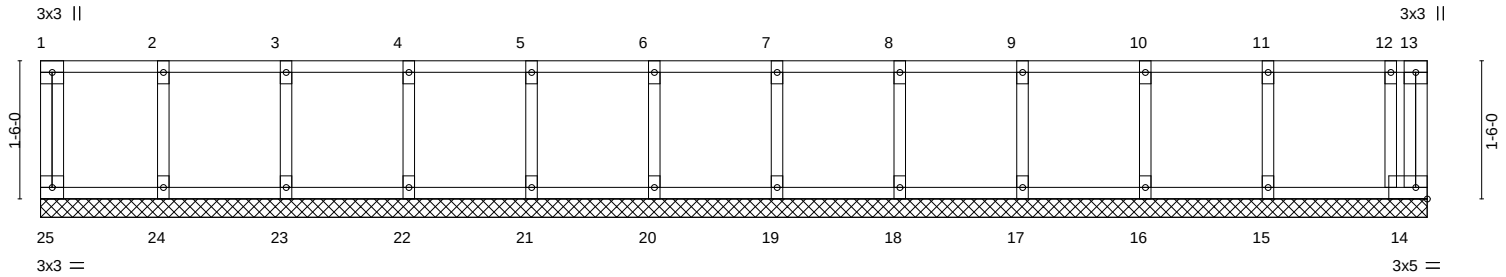

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW11	GABLE	1	1	I50173937 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:32 2022 Page 1
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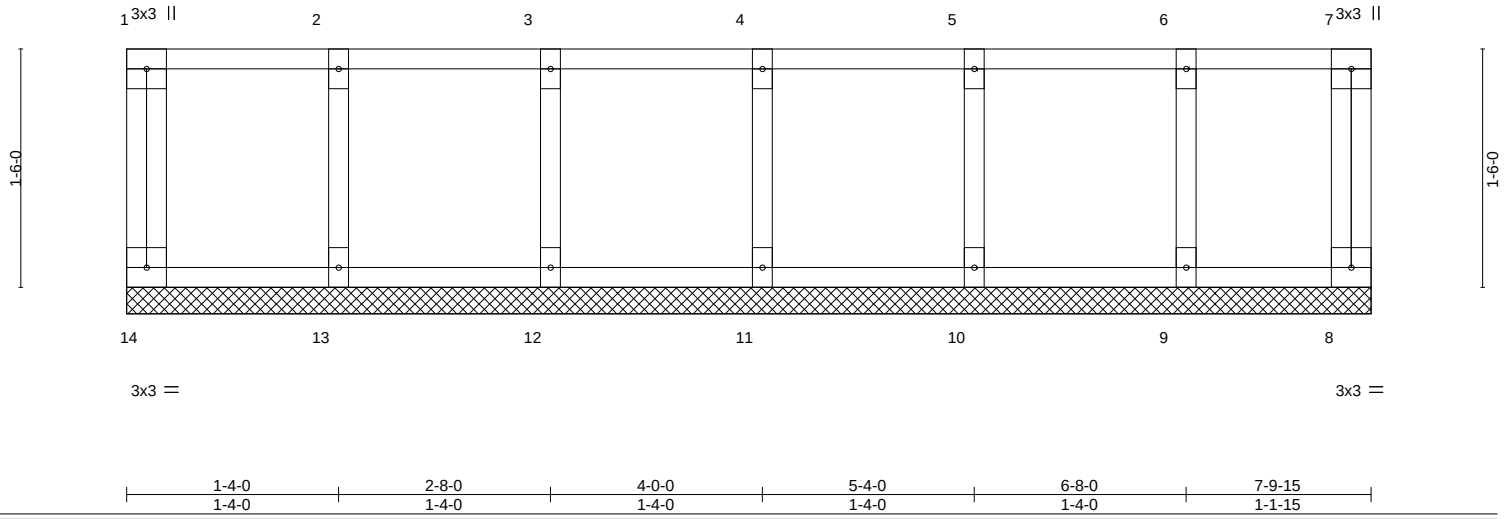

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-9-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW12	GABLE	1	1	I50173938 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:34 2022 Page 1
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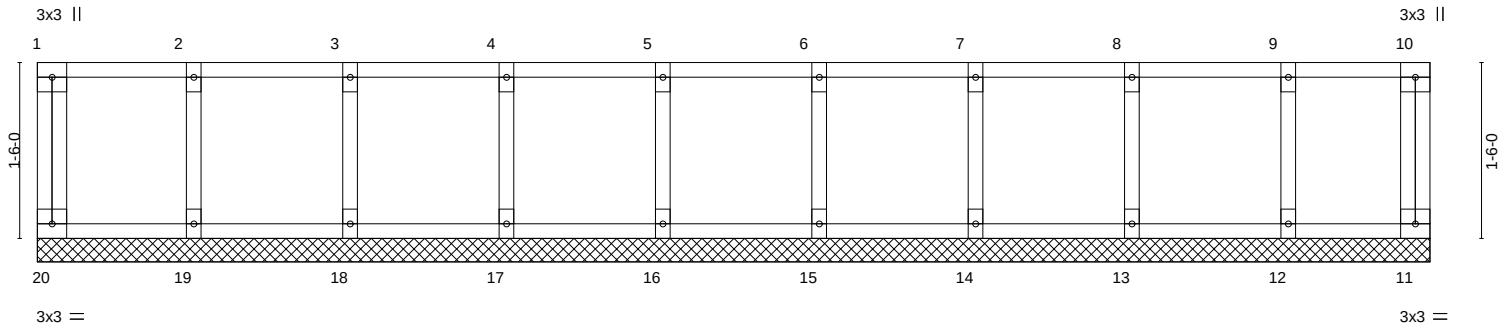

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW13	GABLE	1	1	I50173939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:35 2022 Page 1
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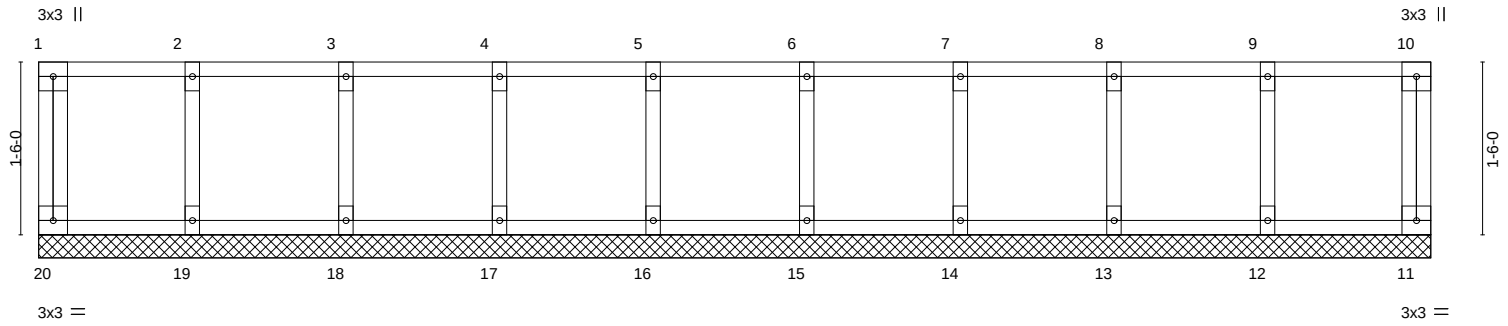

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW14	GABLE	2	1	I50173940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:36 2022 Page 1
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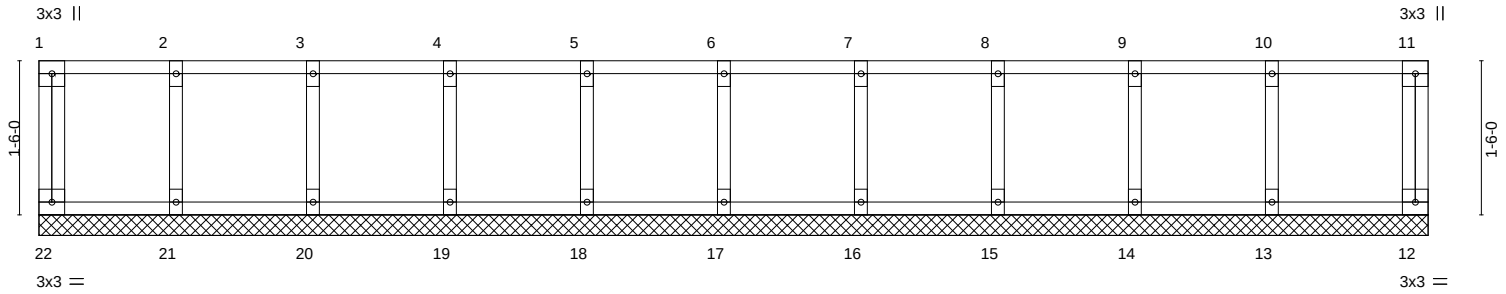

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-6-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW15	GABLE	1	1	I50173941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:37 2022 Page 1
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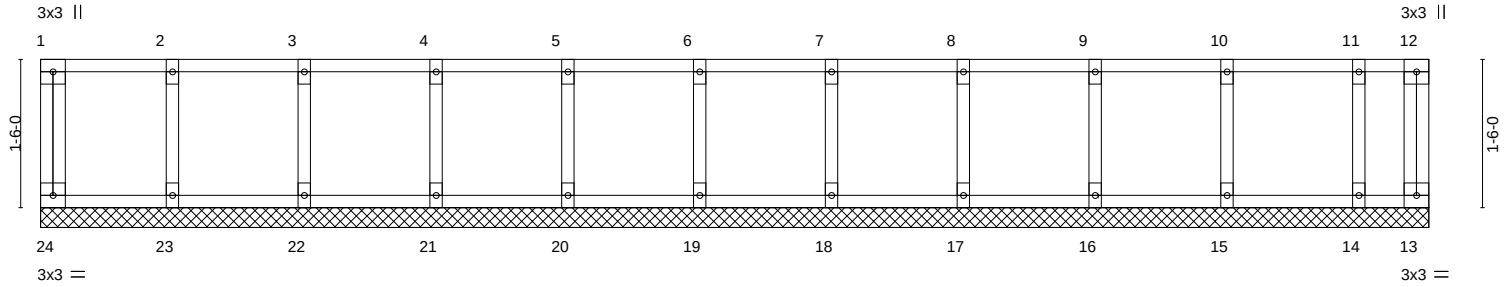

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-0-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-0-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW16	GABLE	1	1	I50173942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:38 2022 Page 1
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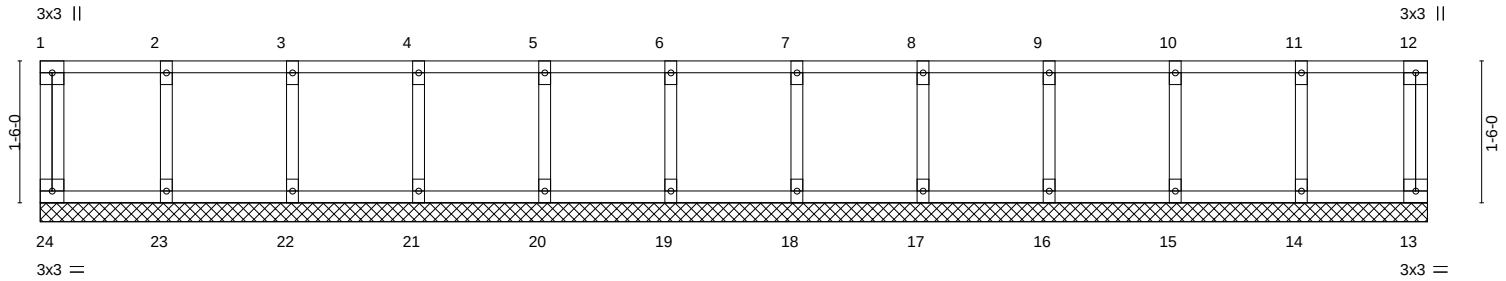

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW17	GABLE	1	1	I50173943
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:40 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ilVLIRPJpt?Fp8n4oxnd0JX5D7PDxUgCyyJz6BzmZ3z

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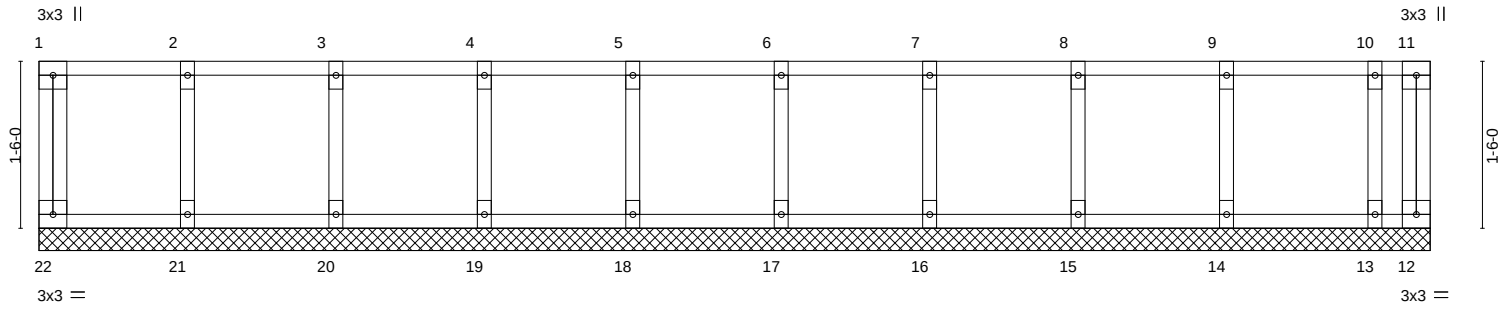

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-5-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-5-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW18	GABLE	1	1	I50173944
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:41 2022 Page 1
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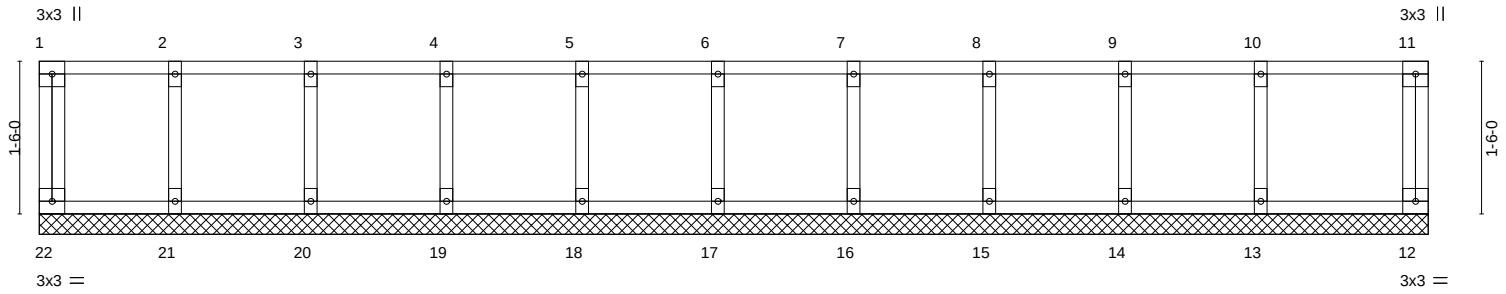

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-7-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-7-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW19	GABLE	1	1	I50173945 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:42 2022 Page 1
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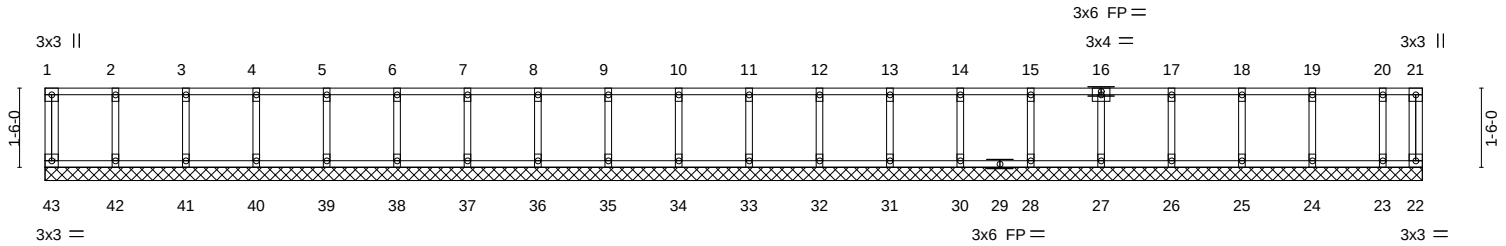

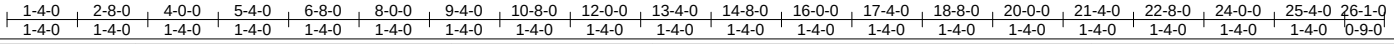

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 26-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 43, 22, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW21	GABLE	1	1	I50173946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:44 2022 Page 1
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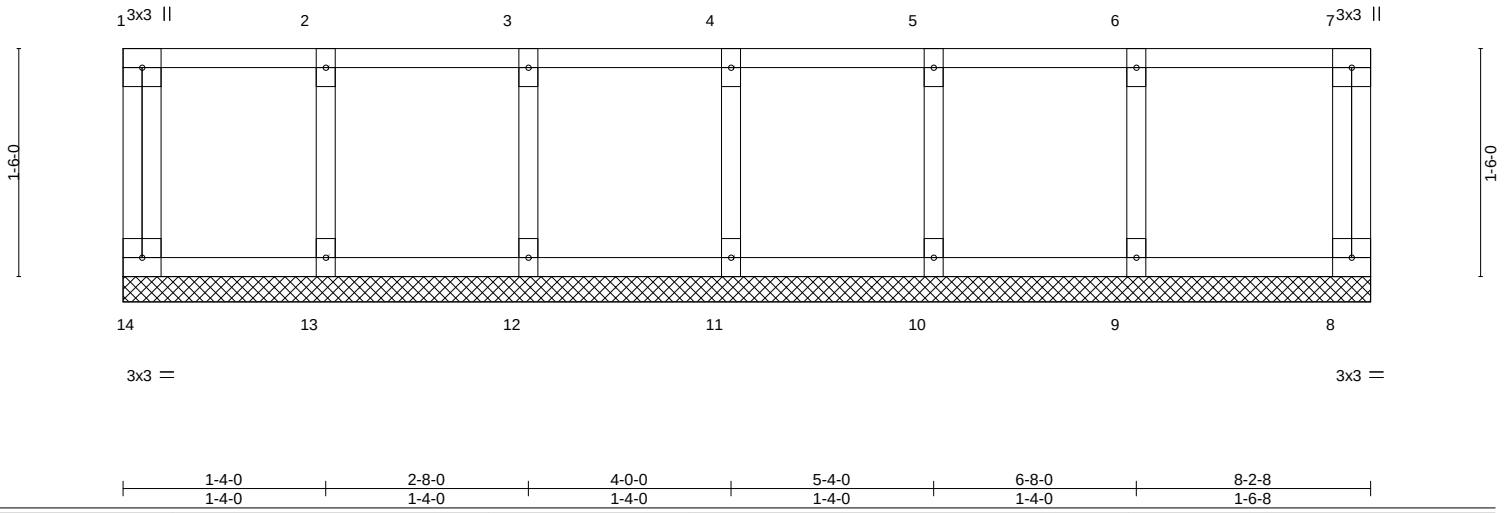

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-2-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW23	GABLE	1	1	I50173947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:45 2022 Page 1
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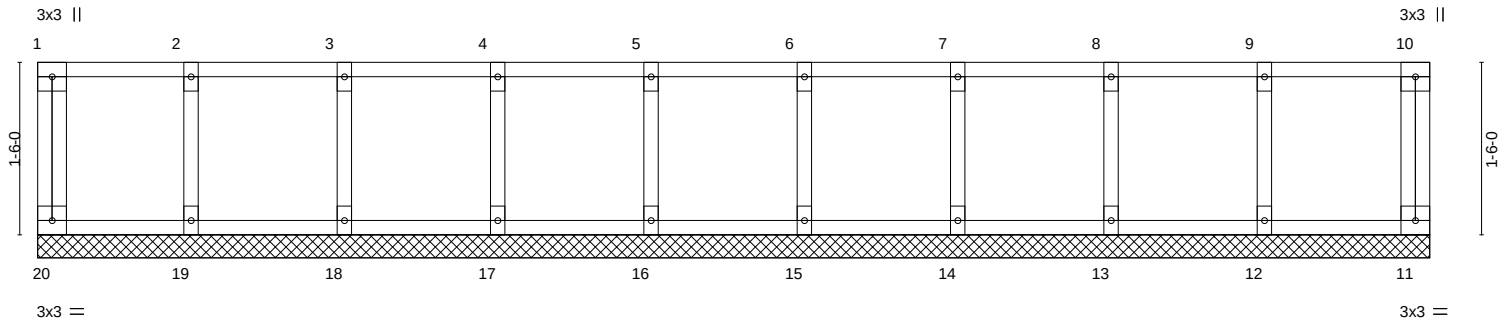

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW24	GABLE	1	1	I50173948 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:45 2022 Page 1
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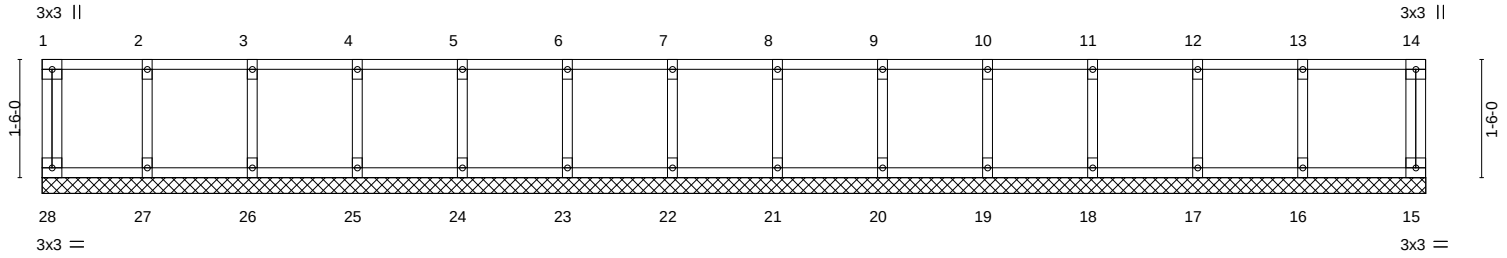

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-6-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-12

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-6-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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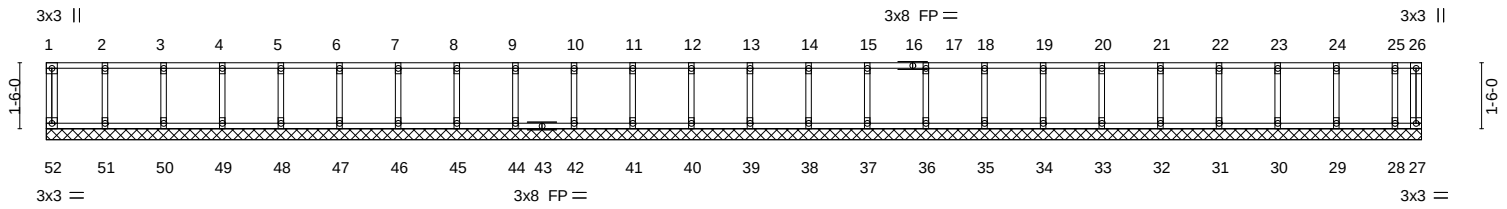
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

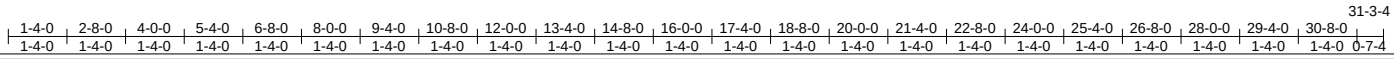
Building 1 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR (BLDG 1 3RD LEVEL AREA A)
PRYOR-F4A	KW25	GABLE	1	1	I50173949 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Feb 10 11:14:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-TI_NzAVKxL?6mNOdGdwVL?sTCL87p5fNoCFOOjzmZ3r

Scale = 1:52.4





LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 143 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-3-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 52, 27, 51, 50, 49, 48, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 11,2022

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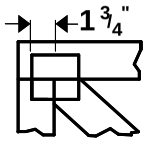
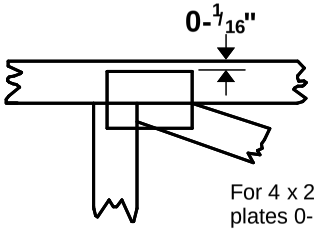
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

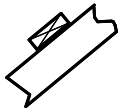
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

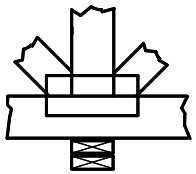
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

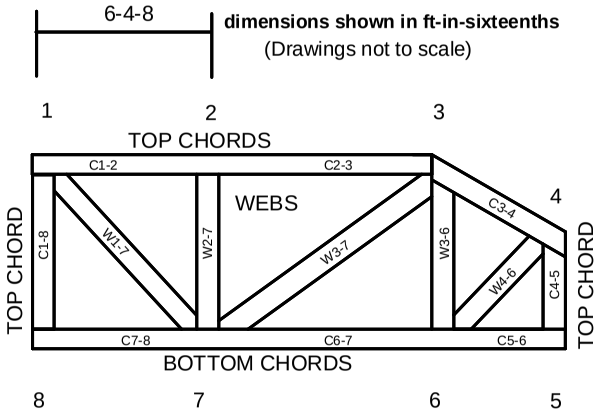


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area A Level 3

Building 1 Area B/C Level 3

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: March 13, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
2bc truss layout Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

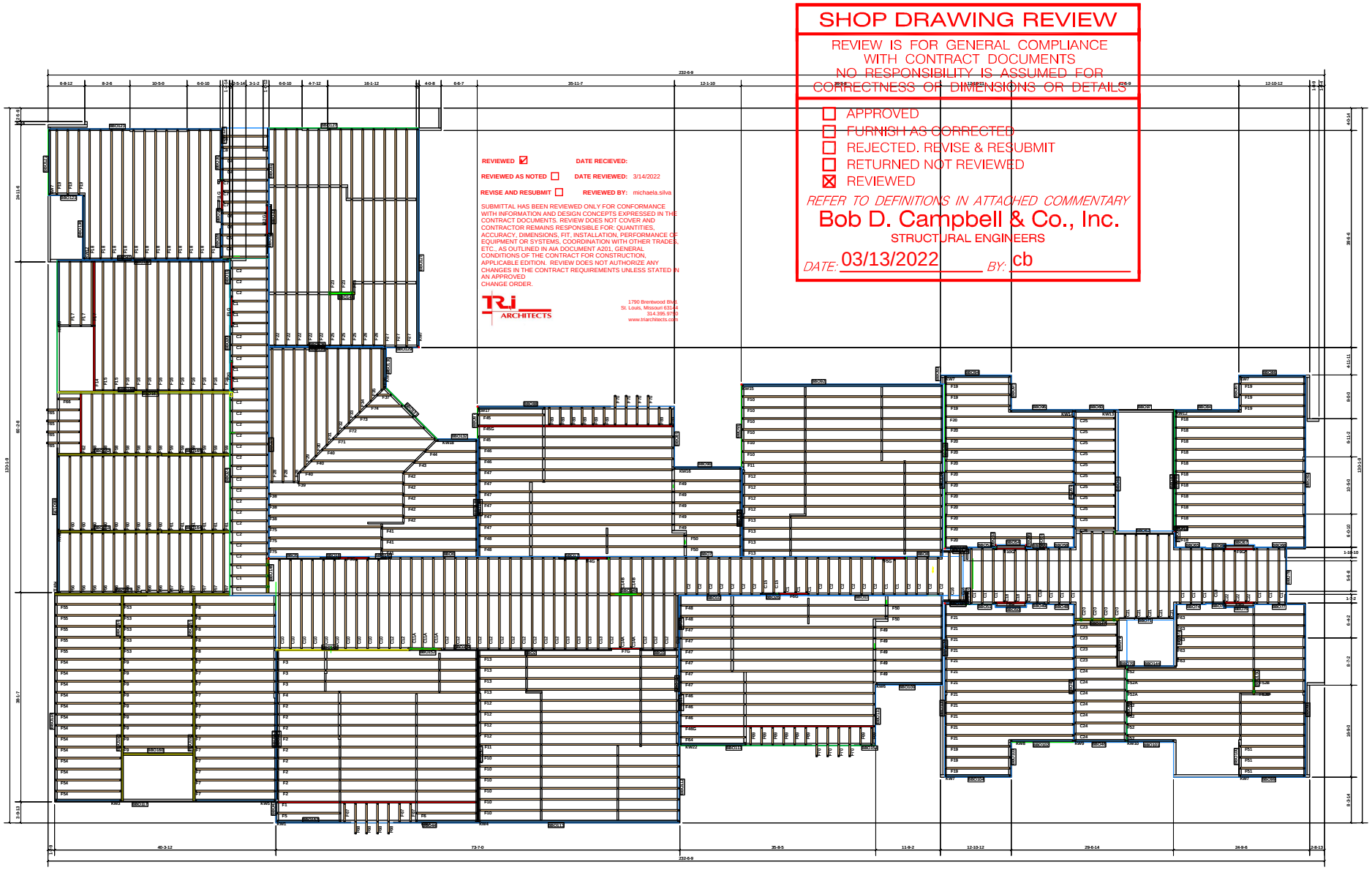
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

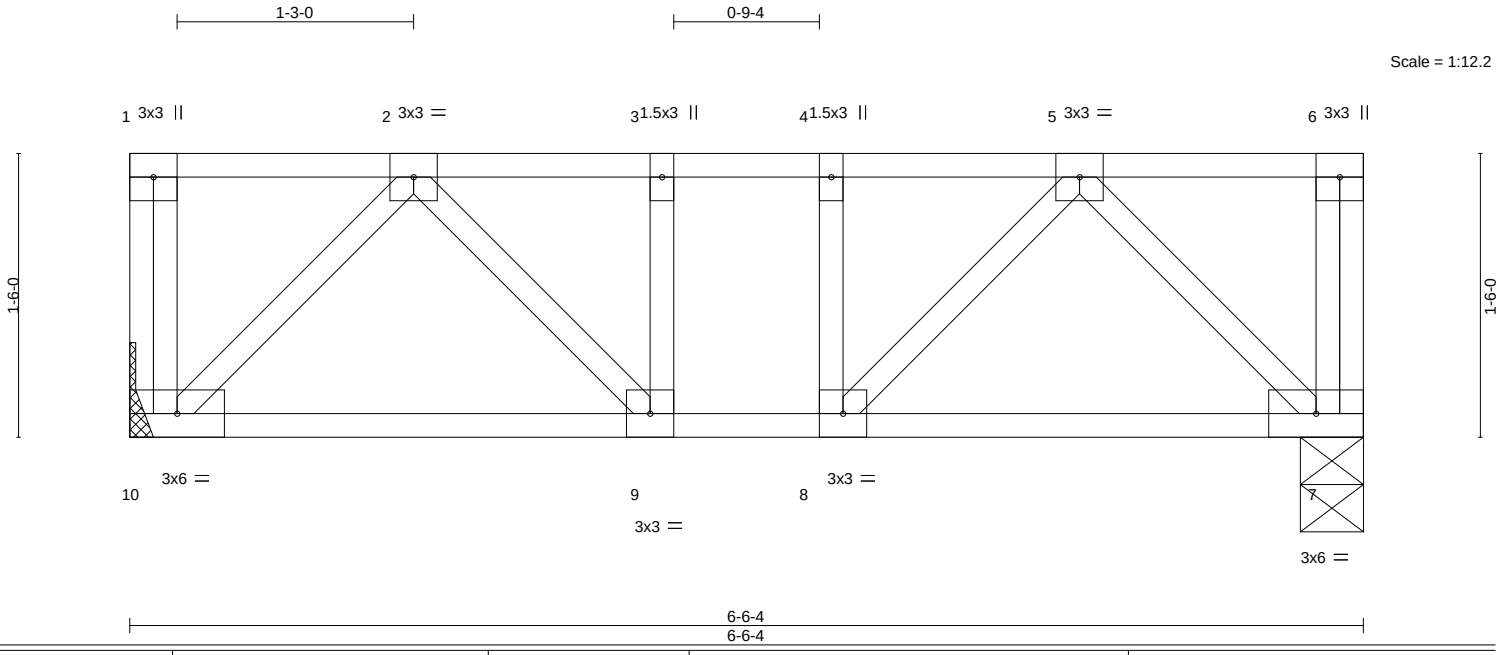
Building 1 Area B/C Level 3



Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C1	Floor	14	1	I50651293
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:27 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-V6ULgKeZoK4iFukP_8YZ_datNWfevTunYHUib?zd03A



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/640, 8-9=0/891, 7-8=0/640
WEBS	5-7=-906/0, 2-10=-906/0, 5-8=0/431, 2-9=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/13/2022 BY: cb

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C2	Floor	38	1	I50651294
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:37 2022 Page 1
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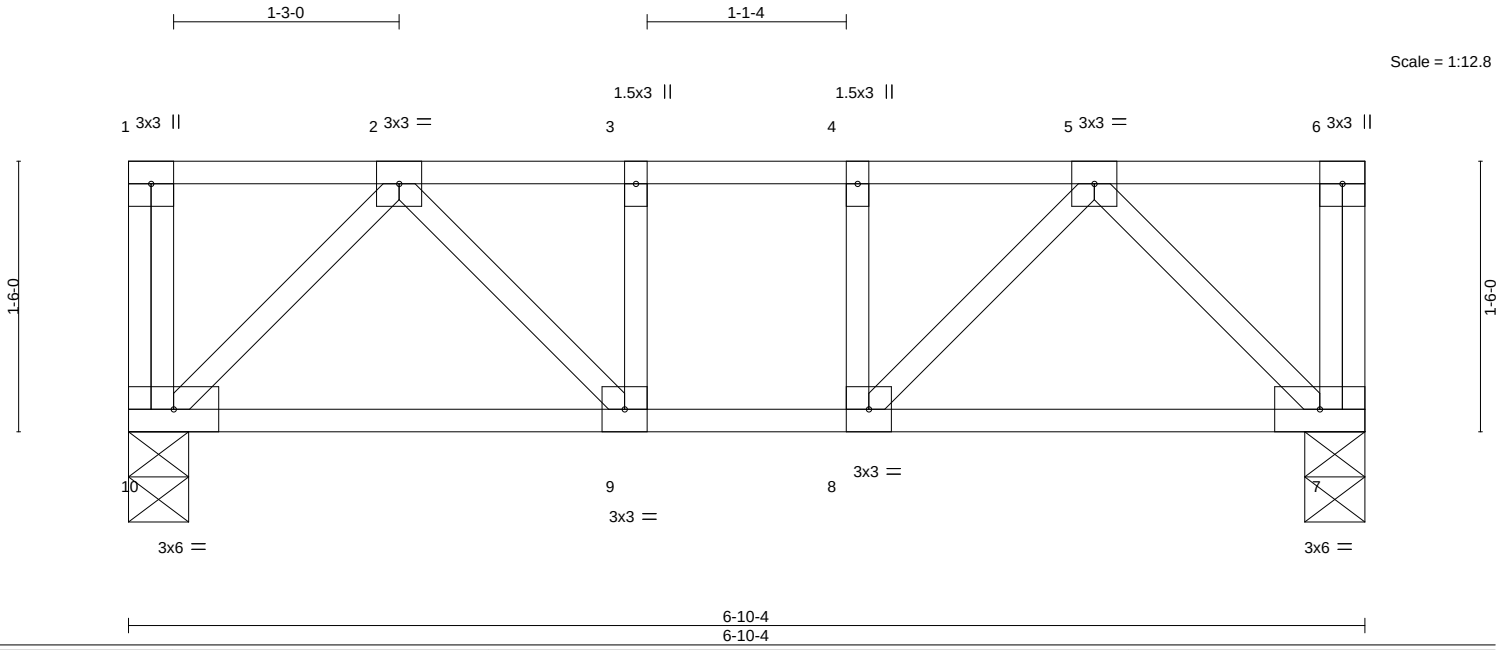

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=825(LC 1), 7=825(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	5-7=-963/0, 2-10=-963/0, 5-8=0/507, 2-9=0/507, 3-9=-293/0, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C3	Floor	1	1	I50651295
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:42 2022 Page 1
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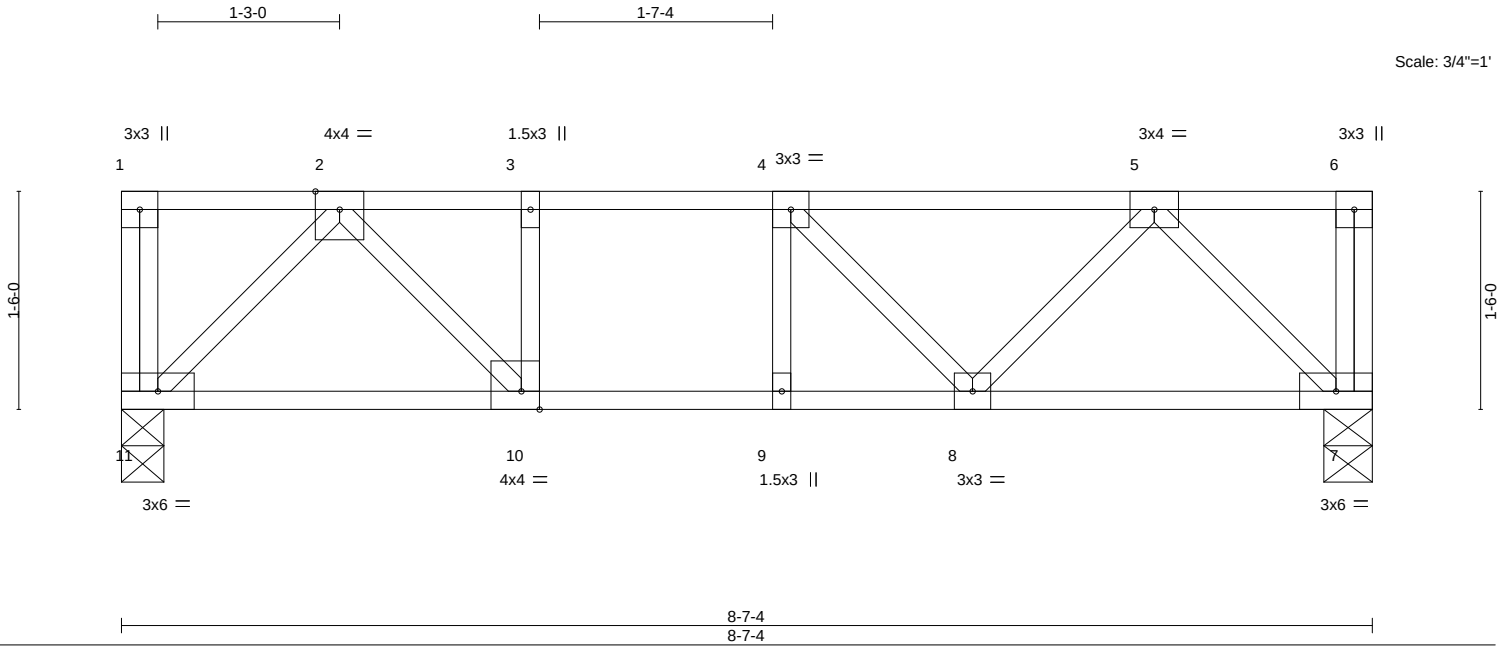

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.12	8-9	>836	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.14	8-9	>714	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

REACTIONS. (size) 11=0-3-8, 7=0-4-0
Max Grav 11=1044(LC 1), 7=1044(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1528/0, 3-4=-1528/0, 4-5=-1299/0
BOT CHORD 10-11=0/911, 9-10=0/1528, 8-9=0/1528, 7-8=0/969
WEBS 5-7=-1370/0, 2-11=-1288/0, 5-8=0/491, 2-10=0/941, 4-8=-460/0, 3-10=-489/0, 4-9=-279/42

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C4	Floor	3	1	I50651296
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:43 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-1BSO1orc1F5R9MyUwVqJe?FTZzzNffd7DmNZ83zd02w

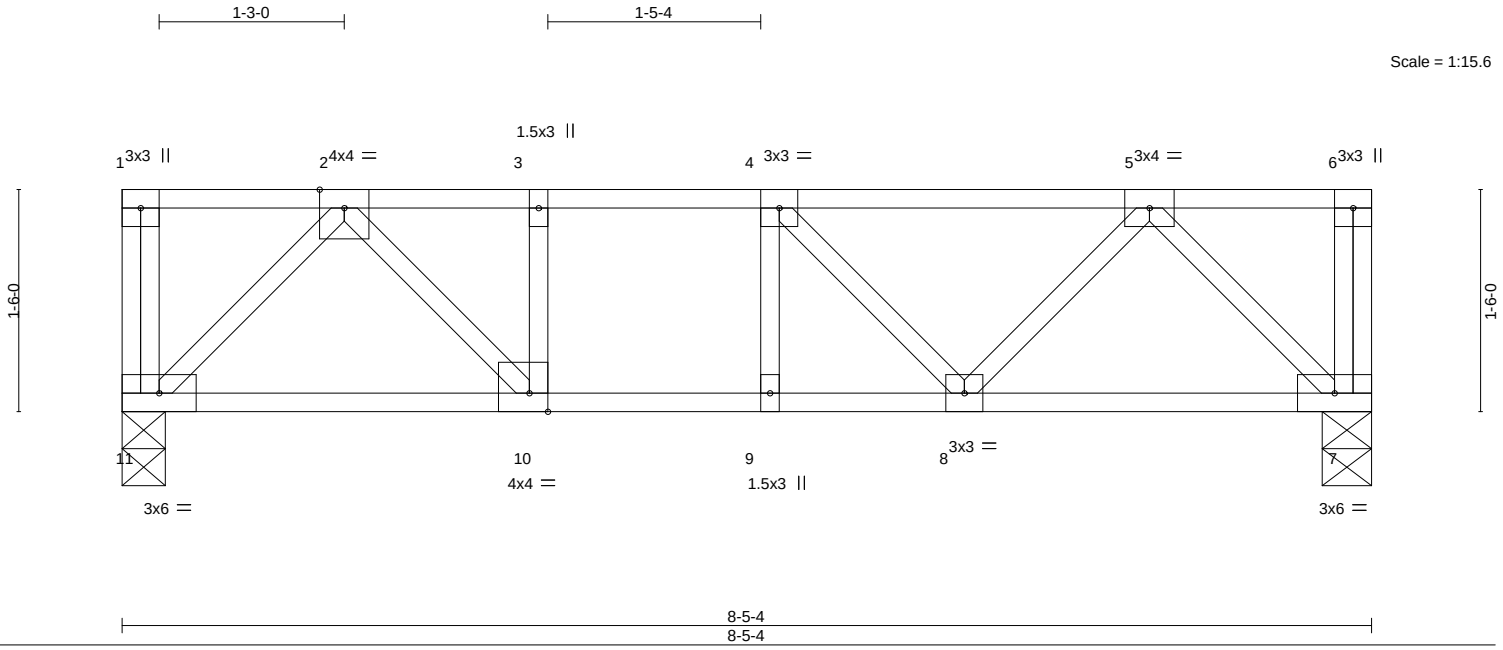

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.10	8-9	>949	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.12	8-9	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=0-4-0
Max Grav 11=1023(LC 1), 7=1023(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1474/0, 3-4=-1474/0, 4-5=-1260/0
BOT CHORD 10-11=0/890, 9-10=0/1474, 8-9=0/1474, 7-8=0/948
WEBS 5-7=-1340/0, 2-11=-1259/0, 5-8=0/464, 2-10=0/889, 4-8=-432/0, 3-10=-452/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C5	Floor	1	1	I50651297
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:43 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-1BSO1orc1F5R9MyUwVqJe?FUqz_Kff?7DmNZ83zd02w

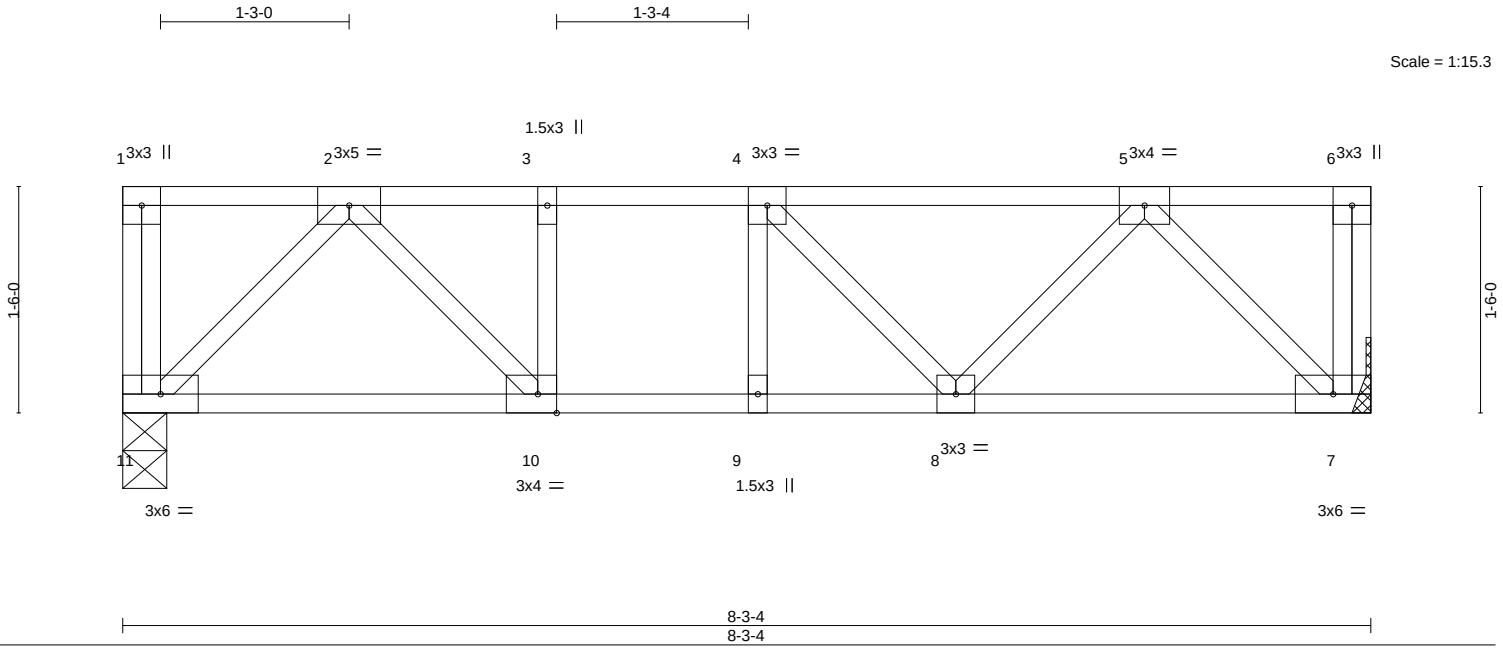

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.09	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.10	8-9	>926	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Grav 11=1003(LC 1), 7=1003(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1420/0, 3-4=-1420/0, 4-5=-1220/0
BOT CHORD 10-11=0/869, 9-10=0/1420, 8-9=0/1420, 7-8=0/926
WEBS 5-7=-1309/0, 2-11=-1230/0, 5-8=0/438, 2-10=0/838, 4-8=-403/0, 3-10=-414/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C6	Floor	2	1	I50651298
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:44 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-WO0mE8rEoYDHnWXgUDLYACnfvNLQO7dHSQ66gWzd02v

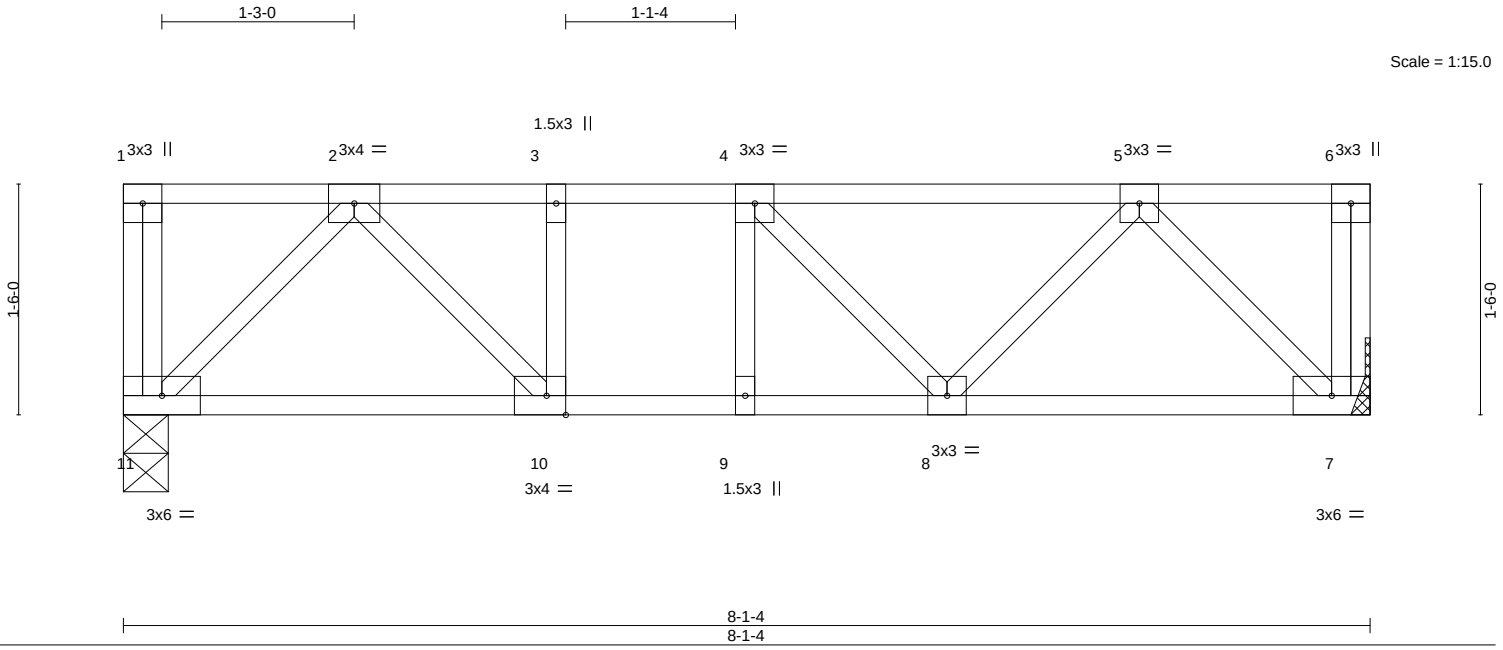

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.09	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 7=Mechanical
Max Grav 11=982(LC 1), 7=982(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1368/0, 3-4=-1368/0, 4-5=-1181/0
BOT CHORD 10-11=0/848, 9-10=0/1368, 8-9=0/1368, 7-8=0/904
WEBS 5-7=-1278/0, 2-11=-1200/0, 5-8=0/412, 2-10=0/789, 4-8=-376/0, 3-10=-377/0, 4-9=-281/40

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C7	Floor	3	1	I50651299
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:45 2022 Page 1
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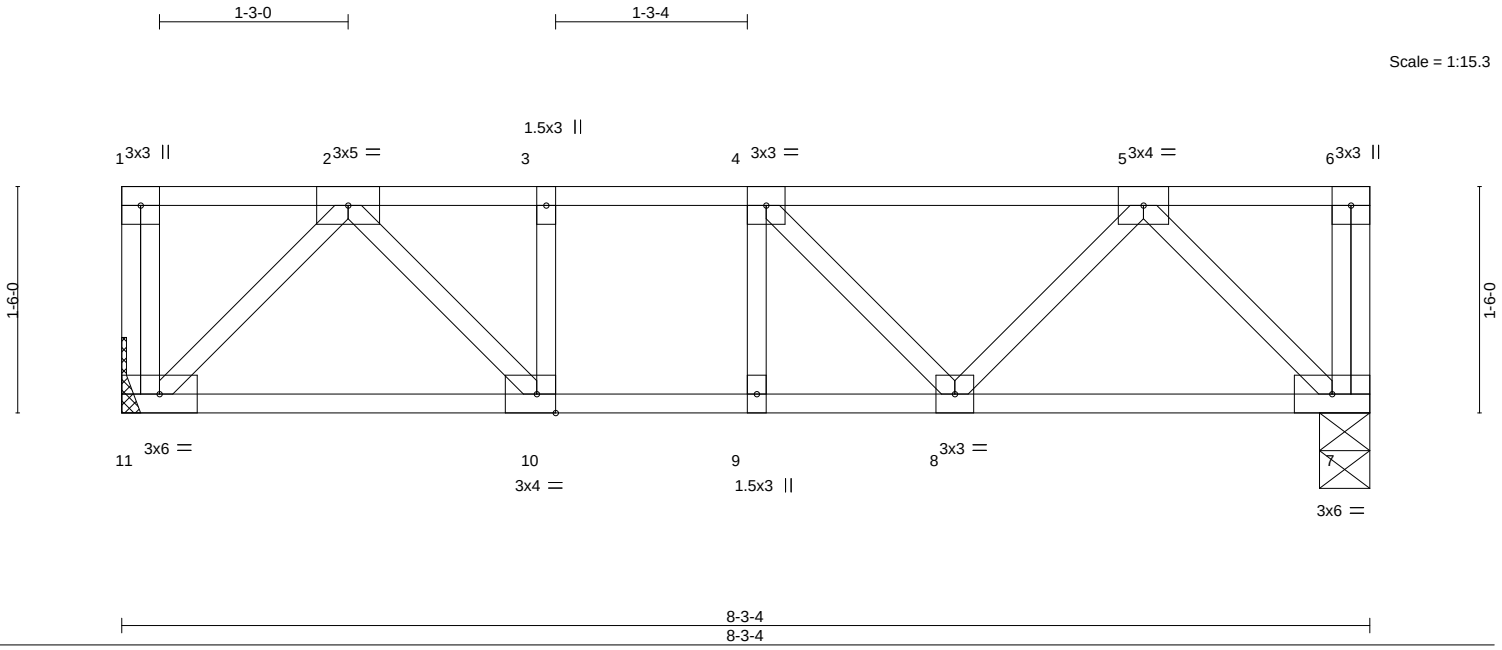

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.09	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.10	8-9	>926	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=0-4-0
Max Grav 11=1003(LC 1), 7=1003(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1420/0, 3-4=-1420/0, 4-5=-1220/0
BOT CHORD 10-11=0/869, 9-10=0/1420, 8-9=0/1420, 7-8=0/926
WEBS 5-7=-1309/0, 2-11=-1229/0, 5-8=0/438, 2-10=0/838, 4-8=-403/0, 3-10=-414/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C8	Floor	2	1	I50651300
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:45 2022 Page 1
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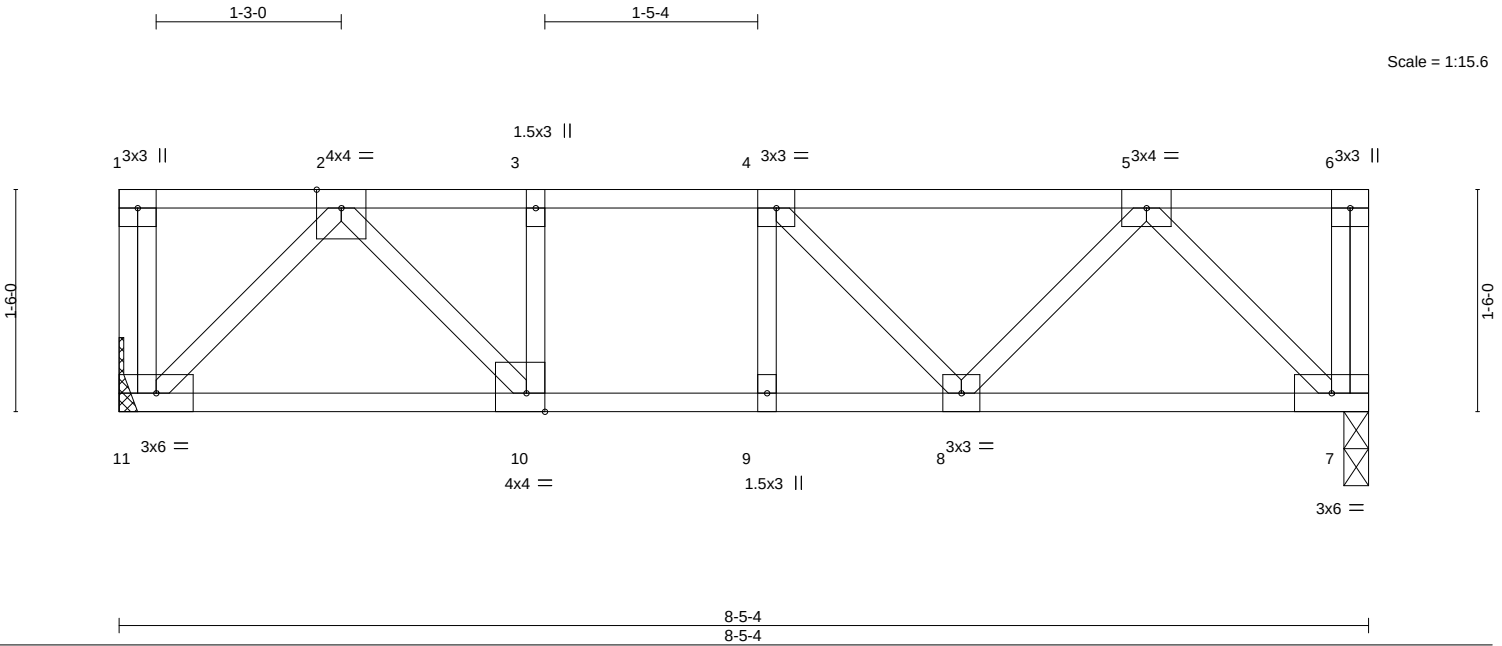

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.10	8-9	>949	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.12	8-9	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=0-2-0
Max Grav 11=1023(LC 1), 7=1023(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1474/0, 3-4=-1474/0, 4-5=-1260/0
BOT CHORD 10-11=0/890, 9-10=0/1474, 8-9=0/1474, 7-8=0/948
WEBS 5-7=-1340/0, 2-11=-1259/0, 5-8=0/464, 2-10=0/889, 4-8=-432/0, 3-10=-452/0, 4-9=-279/41

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C10	Floor	10	1	I50651301
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:28 2022 Page 1
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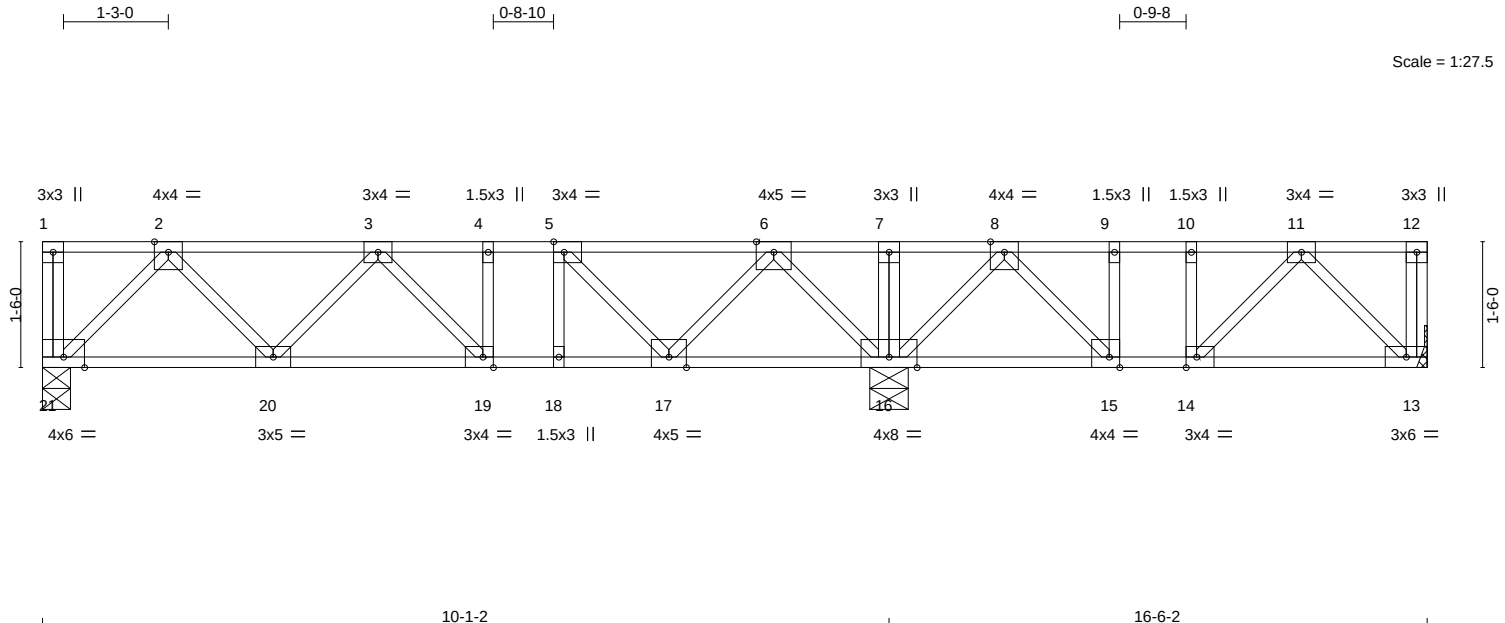

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-0, 13=Mechanical, 16=0-5-8
Max Uplift 13=-42(LC 3)
Max Grav 21=1384(LC 10), 13=864(LC 4), 16=2831(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1824/0, 3-4=-2233/0, 4-5=-2233/0, 5-6=-1436/0, 6-7=0/1208, 7-8=0/1208, 8-9=-893/272, 9-10=-893/272, 10-11=-893/272
BOT CHORD 20-21=0/1264, 19-20=0/2347, 18-19=0/2233, 17-18=0/2233, 16-17=-96/676, 15-16=-586/486, 14-15=-272/893, 13-14=-78/692
WEBS 7-16=-359/0, 2-21=-1787/0, 6-16=-2120/0, 2-20=0/833, 6-17=0/1211, 3-20=-778/0, 5-17=-1272/0, 3-19=-493/285, 5-18=-152/332, 11-13=-979/110, 8-16=-1378/0, 11-14=-281/290, 8-15=0/891, 9-15=-524/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C11A	Floor	3	1	I50651302
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:30 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-whATIMhS5FTH6MS_fG5GcFCIZjXg6hxDEFjNCKzd037

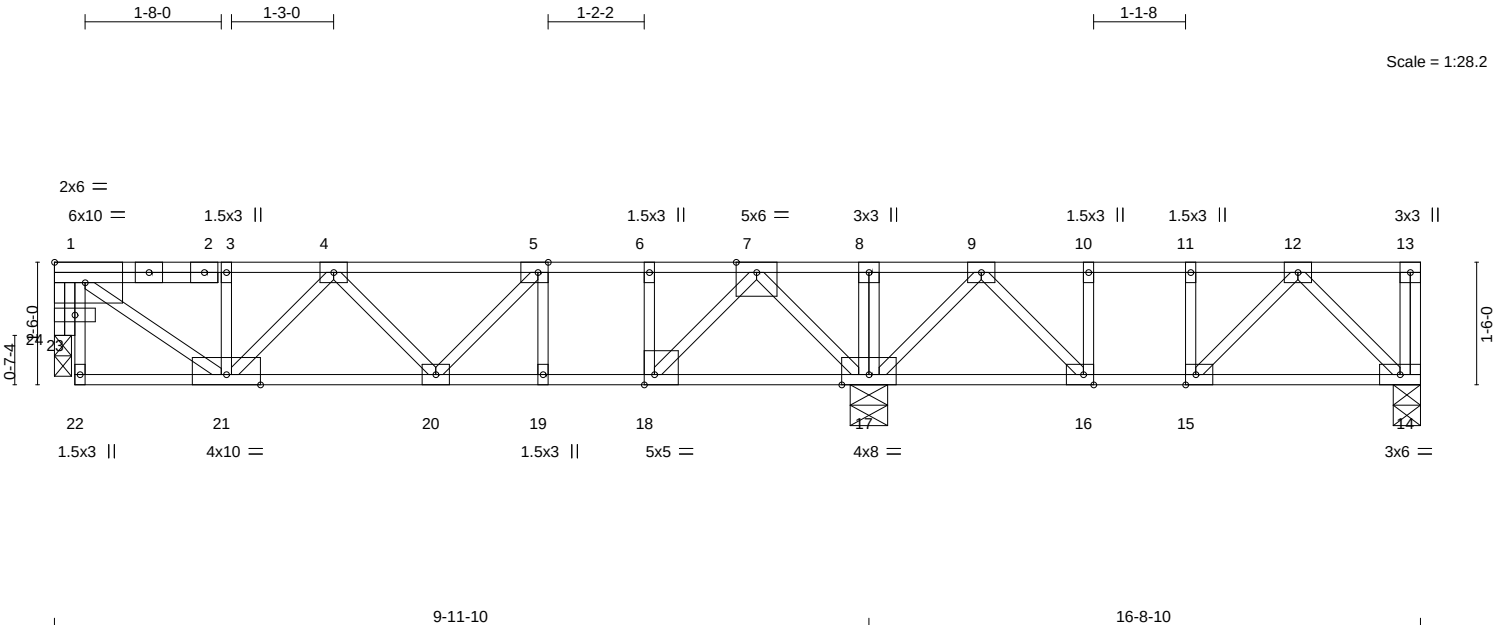

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.15	19-20	>794	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.18	19-20	>671	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 99 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* 1-2: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-22,1-21: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 17=0-5-8, 24=0-2-8
Max Grav 14=1019(LC 7), 17=2508(LC 1), 24=1452(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1718/0, 3-4=-1710/0, 4-5=-2615/0, 5-6=-2493/0, 6-7=-2493/0, 7-8=-220/420, 8-9=-220/420, 9-10=-1244/0, 10-11=-1244/0, 11-12=-1244/0
BOT CHORD	20-21=0/2535, 19-20=0/2493, 18-19=0/2493, 17-18=0/1476, 16-17=0/901, 15-16=0/1244, 14-15=0/846
WEBS	8-17=-491/0, 1-21=0/1897, 3-21=-258/0, 4-21=-1195/0, 7-17=-1854/0, 7-18=0/1625, 5-20=-145/393, 5-19=-522/0, 6-18=-792/0, 12-14=-1197/0, 9-17=-1216/0, 12-15=0/576, 9-16=0/733, 10-16=-469/0, 11-15=-390/0, 1-24=-1495/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C12	Floor	18	1	I50651303
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:31 2022 Page 1
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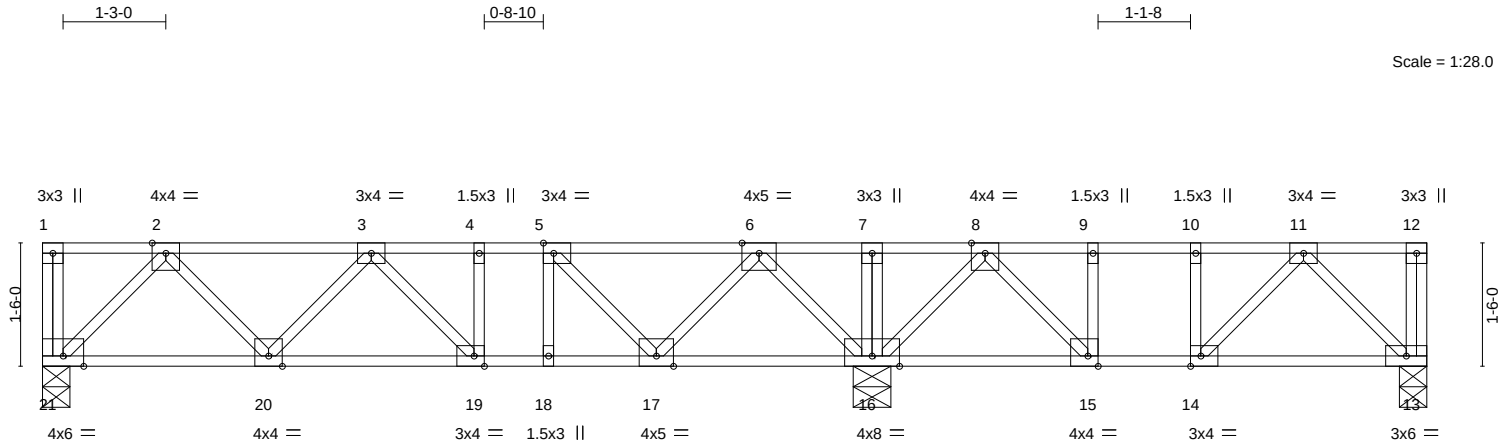

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-0, 13=0-4-0, 16=0-5-8
Max Grav 21=1419(LC 10), 13=926(LC 4), 16=2808(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1889/0, 3-4=-2374/0, 4-5=-2374/0, 5-6=-1622/0, 6-7=0/1124, 7-8=0/1124, 8-9=-1016/171, 9-10=-1016/171, 10-11=-1016/171
BOT CHORD 20-21=0/1298, 19-20=0/2445, 18-19=0/2374, 17-18=0/2374, 16-17=-62/895, 15-16=-455/561, 14-15=-171/1016, 13-14=-25/752
WEBS 7-16=-361/0, 2-21=-1836/0, 6-16=-2104/0, 2-20=0/878, 6-17=0/1195, 3-20=-828/0, 5-17=-1251/0, 3-19=-473/323, 5-18=-168/324, 11-13=-1064/36, 8-16=-1379/0, 11-14=-211/383, 8-15=0/914, 9-15=-553/0, 10-14=-287/102

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C13	Floor	4	1	I50651304
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:32 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-s4IEj1iidtj_LgcNnh8khgIajXFmaeWWhYCTGCzd035

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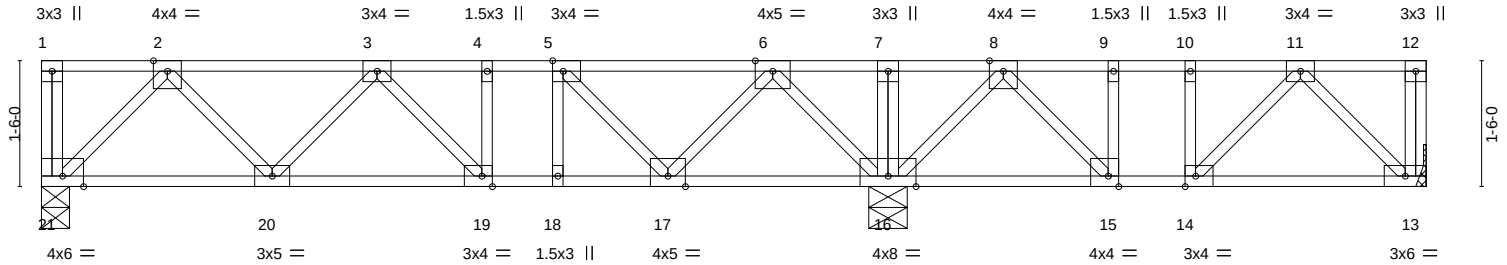

10-1-2 16-6-2
10-1-2 6-5-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 21=0-4-0, 13=Mechanical, 16=0-5-8
Max Uplift 13=-42(LC 3)
Max Grav 21=1384(LC 10), 13=864(LC 4), 16=2831(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1824/0, 3-4=-2233/0, 4-5=-2233/0, 5-6=-1436/0, 6-7=0/1208, 7-8=0/1208, 8-9=-893/272, 9-10=-893/272, 10-11=-893/272
BOT CHORD 20-21=0/1264, 19-20=0/2347, 18-19=0/2233, 17-18=0/2233, 16-17=-95/677, 15-16=-586/486, 14-15=-272/893, 13-14=-78/692
WEBS 7-16=-359/0, 2-21=-1787/0, 6-16=-2120/0, 2-20=0/833, 6-17=0/1211, 3-20=-778/0, 5-17=-1272/0, 3-19=-493/285, 5-18=-152/332, 11-13=-979/110, 8-16=-1378/0, 11-14=-281/290, 8-15=0/891, 9-15=-524/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C14A	Floor	2	1	I50651305
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:33 2022 Page 1
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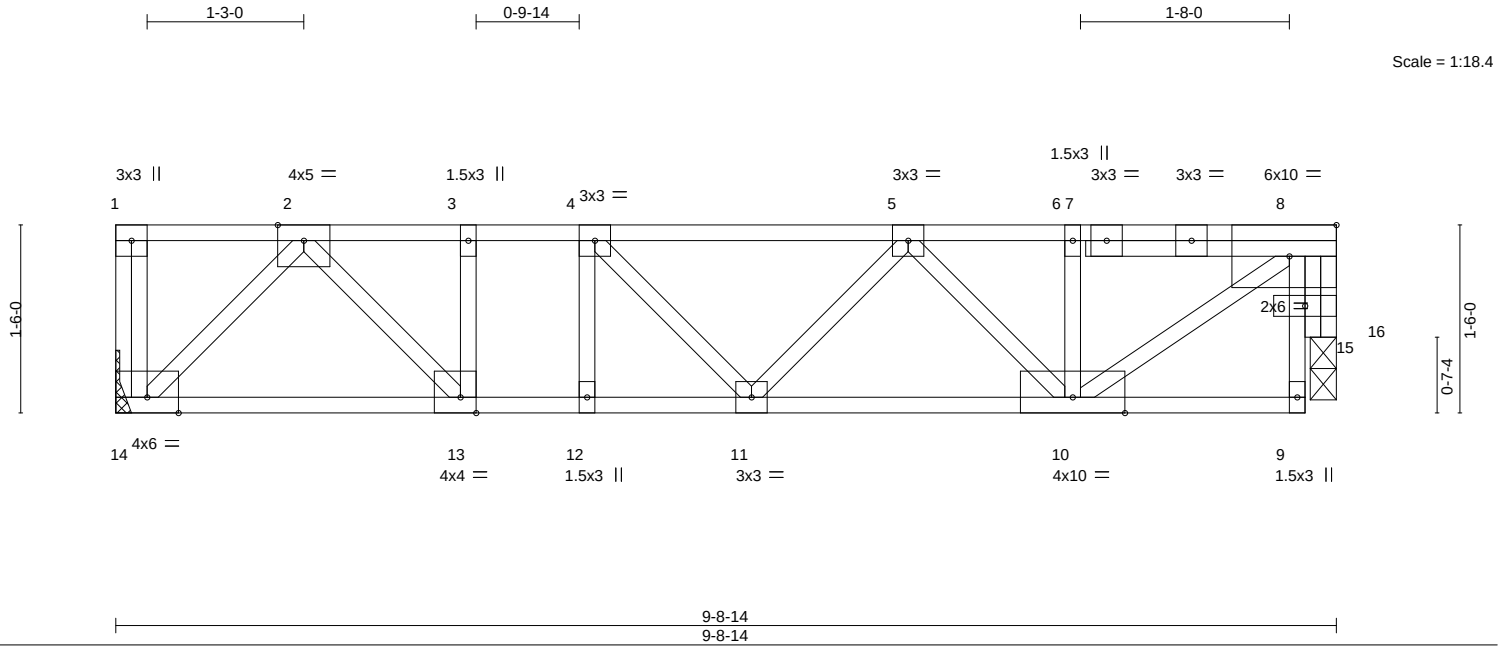

Plate Offsets (X,Y)-- [8:0-4-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.11	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.13	11-12	>853	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat) *Except* 7-8: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 16=0-2-8
Max Grav 14=1420(LC 1), 16=1371(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2183/0, 3-4=-2183/0, 4-5=-2355/0, 5-6=-1595/0, 6-8=-1604/0
BOT CHORD	13-14=0/1269, 12-13=0/2183, 11-12=0/2183, 10-11=0/2331
WEBS	8-10=0/1765, 6-10=-273/0, 5-10=-1065/0, 2-14=-1795/0, 5-11=-102/267, 2-13=0/1324, 4-11=-234/436, 3-13=-567/0, 4-12=-580/0, 8-16=-1412/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C14B	Floor	2	1	I50651306
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:33 2022 Page 1
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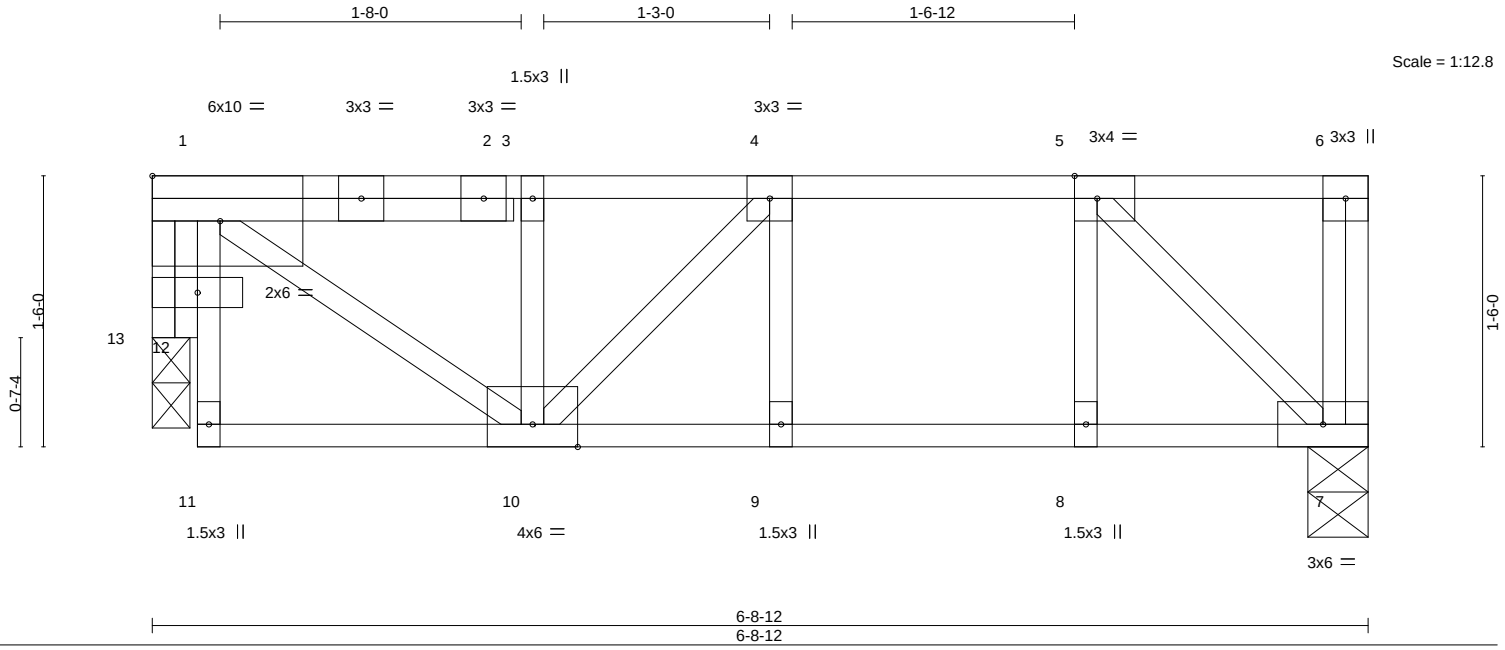

Plate Offsets (X,Y)-- [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.11	9-10	>704	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.13	9-10	>604	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-10: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 13=0-2-8
Max Grav 7=968(LC 1), 13=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1042/0, 3-4=-1036/0, 4-5=-1000/0
BOT CHORD 9-10=0/1000, 8-9=0/1000, 7-8=0/1000
WEBS 1-10=0/1139, 3-10=-590/0, 5-7=-1384/0, 4-10=-298/166, 4-9=-298/0, 5-8=0/295, 1-13=-948/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C15	Floor	2	1	I50651307
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:34 2022 Page 1
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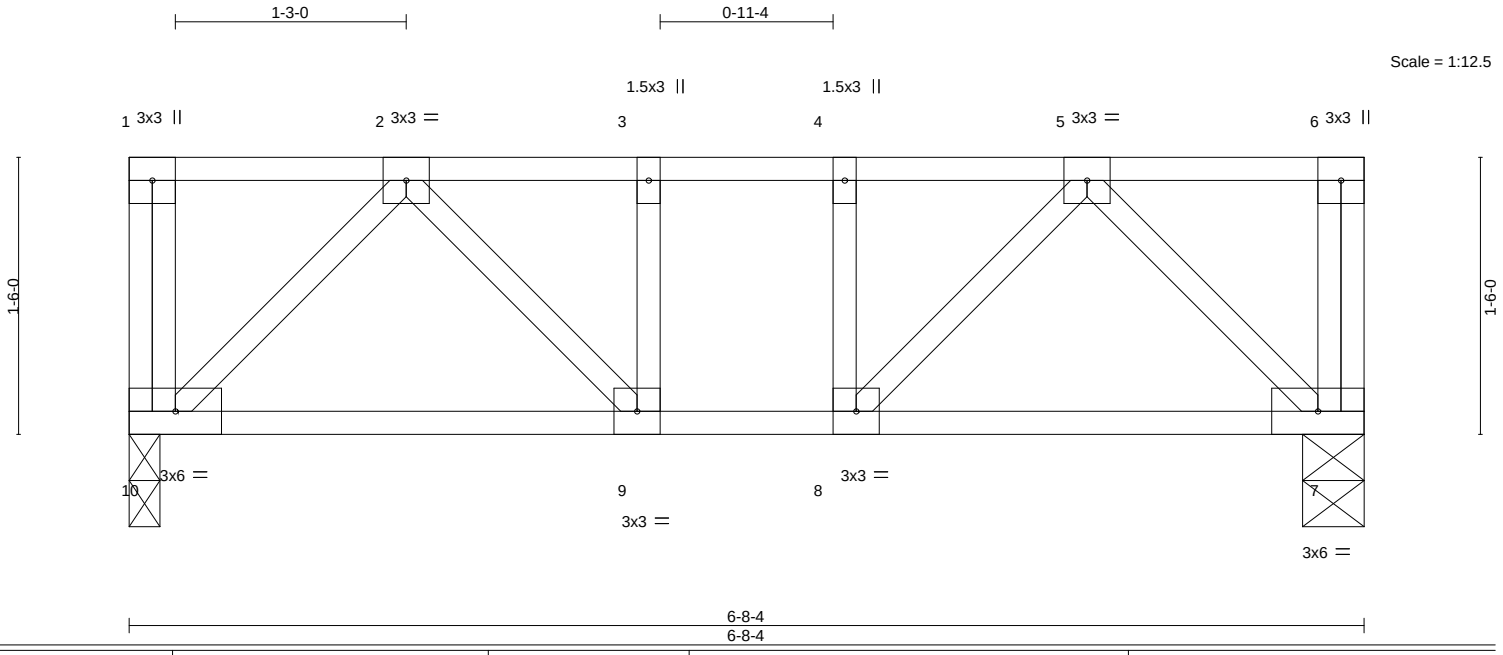


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	5-7=-934/0, 2-10=-934/0, 5-8=0/468, 2-9=0/468, 3-9=-266/0, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

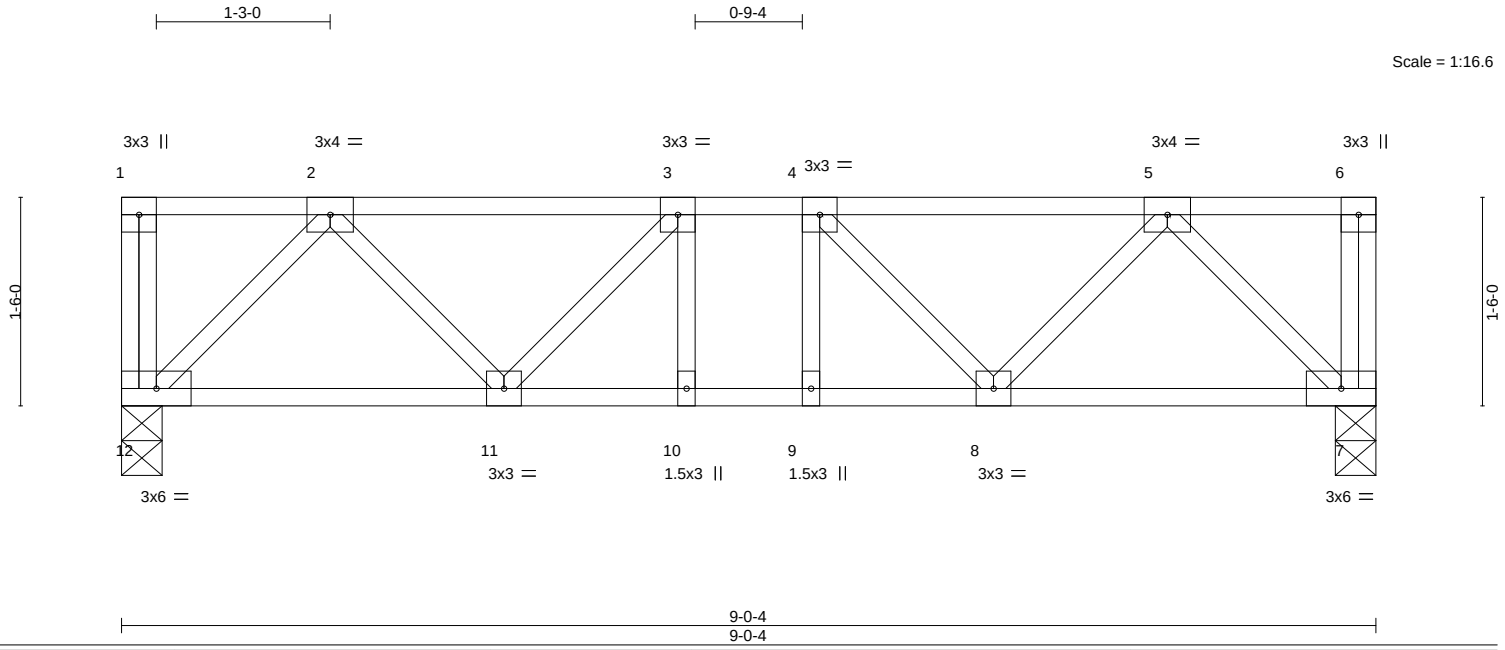
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C16	Floor	2	1	I50651308
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:35 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-GfzMM3kawo5ZC7LySqhRJJw8SkFcn3yyOWR8tXzd032



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Grav 12=1096(LC 1), 7=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1400/0, 3-4=-1793/0, 4-5=-1400/0
BOT CHORD	11-12=0/1001, 10-11=0/1793, 9-10=0/1793, 8-9=0/1793, 7-8=0/1001
WEBS	5-7=-1416/0, 2-12=-1416/0, 5-8=0/593, 2-11=0/593, 4-8=-594/0, 3-11=-594/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C17	Floor	12	1	I50651309
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:35 2022 Page 1
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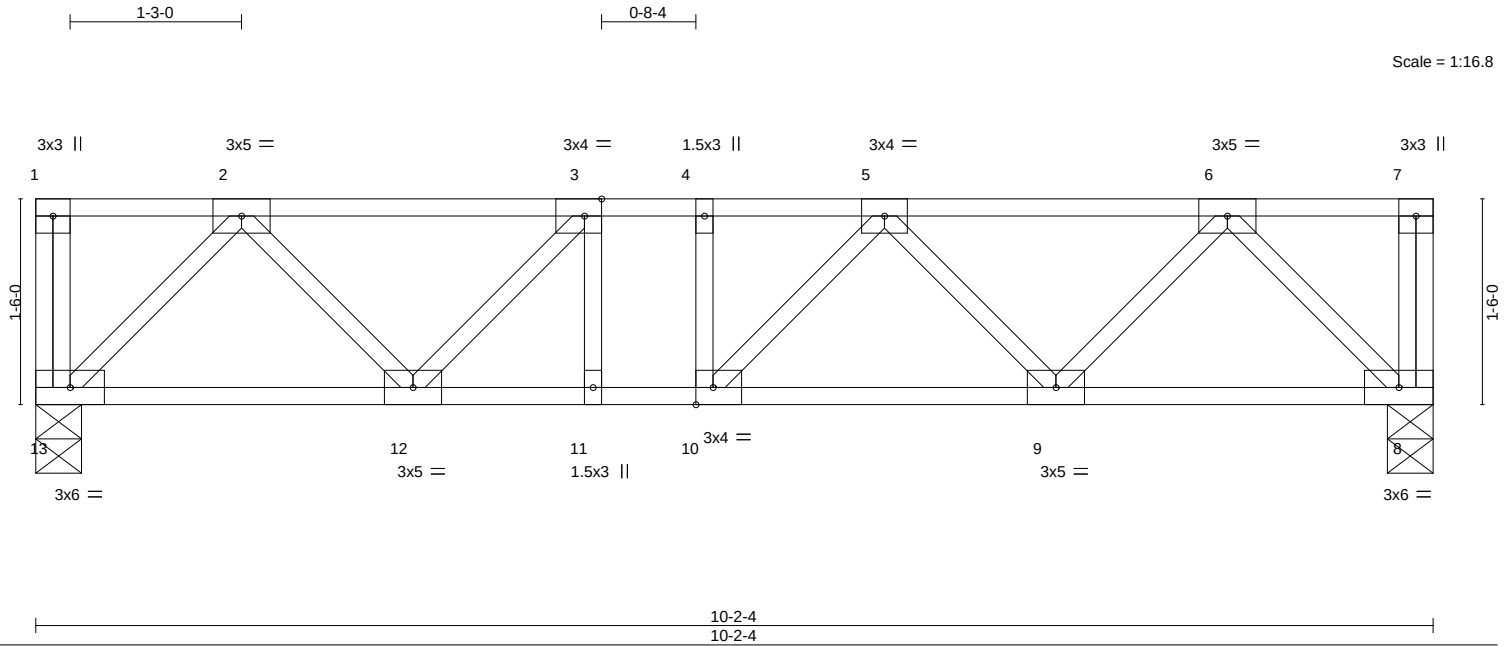

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 8=0-4-0
Max Grav 13=1242(LC 1), 8=1242(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1682/0, 3-4=-2223/0, 4-5=-2223/0, 5-6=-1686/0
BOT CHORD 12-13=0/1143, 11-12=0/2223, 10-11=0/2223, 9-10=0/2205, 8-9=0/1140
WEBS 6-8=-1612/0, 2-13=-1616/0, 6-9=0/812, 2-12=0/802, 5-9=-773/0, 3-12=-783/0, 5-10=-285/420

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C18	Floor	3	1	I50651310
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:36 2022 Page 1
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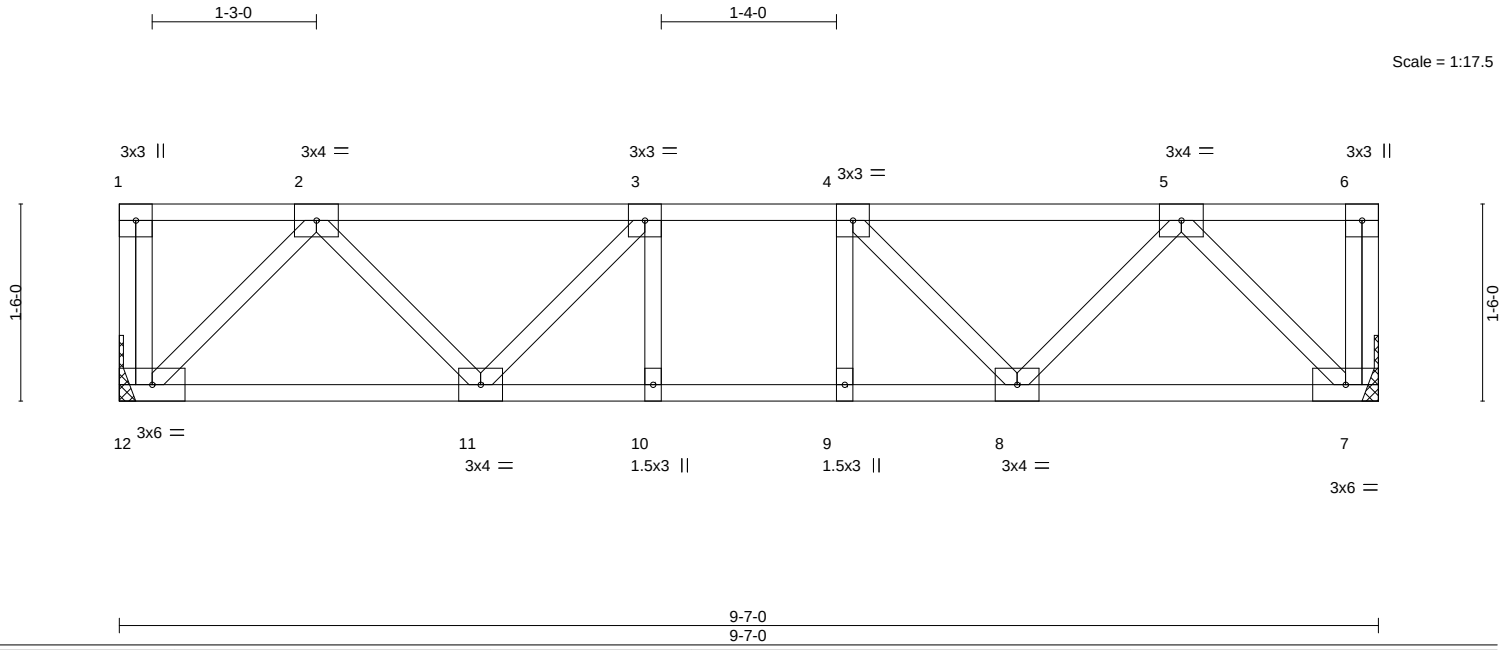

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1167(LC 1), 7=1167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1534/0, 3-4=-1993/0, 4-5=-1534/0
BOT CHORD 11-12=0/1072, 10-11=0/1993, 9-10=0/1993, 8-9=0/1993, 7-8=0/1072
WEBS 5-7=-1516/0, 2-12=-1516/0, 5-8=0/686, 2-11=0/686, 4-8=-721/0, 3-11=-721/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C19	Floor	2	1	I50651311
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:37 2022 Page 1
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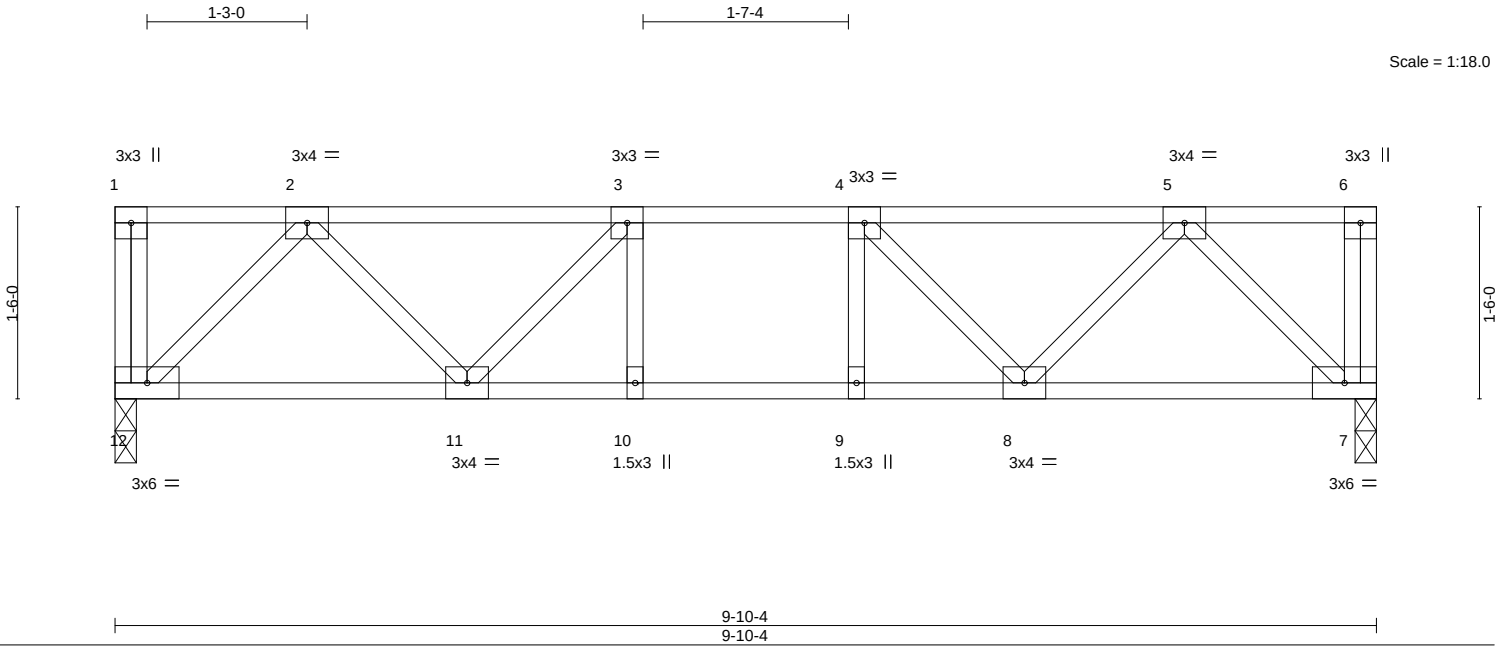

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.10	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.11	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-0
Max Grav 12=1201(LC 1), 7=1201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1599/0, 3-4=-2094/0, 4-5=-1599/0
BOT CHORD	11-12=0/1105, 10-11=0/2094, 9-10=0/2094, 8-9=0/2094, 7-8=0/1105
WEBS	5-7=-1562/0, 2-12=-1562/0, 5-8=0/735, 2-11=0/735, 4-8=-788/0, 3-11=-788/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C20	Floor	4	1	I50651312
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:38 2022 Page 1
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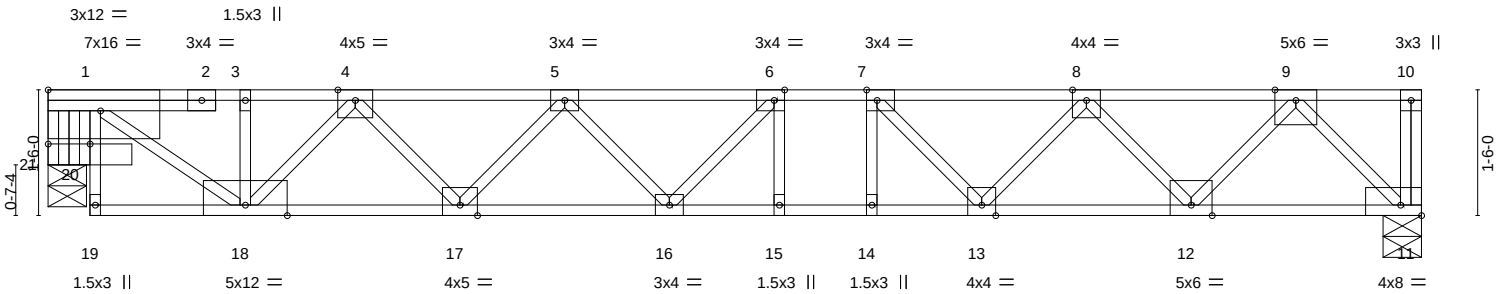

16-4-12
16-4-12

Plate Offsets (X,Y)-- [1:Edge,0-3-0], [6:0-1-8,Edge], [7:0-1-8,Edge], [11:Edge,0-1-8], [20:0-6-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.26	15-16	>743	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.32	15-16	>595	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* 1-2: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-19,1-18: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-16.

REACTIONS. (size) 11=0-5-8, 21=0-5-8
Max Grav 11=1984(LC 1), 21=1943(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-2495/0, 3-4=-2488/0, 4-5=-4604/0, 5-6=-5575/0, 6-7=-5660/0, 7-8=-4940/0, 8-9=-3106/0
BOT CHORD	17-18=0/3791, 16-17=0/5403, 15-16=0/5660, 14-15=0/5660, 13-14=0/5660, 12-13=0/4305, 11-12=0/1874
WEBS	1-18=0/2812, 3-18=-286/0, 4-18=-1887/0, 4-17=0/1210, 5-17=-1187/0, 5-16=-124/580, 6-16=-689/417, 6-15=-510/259, 9-11=-2650/0, 9-12=0/1831, 8-12=-1783/0, 8-13=0/1011, 7-13=-1266/0, 7-14=-243/527, 1-21=-1994/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C21	Floor	5	1	I50651313
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:39 2022 Page 1
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1-3-0 0-8-8

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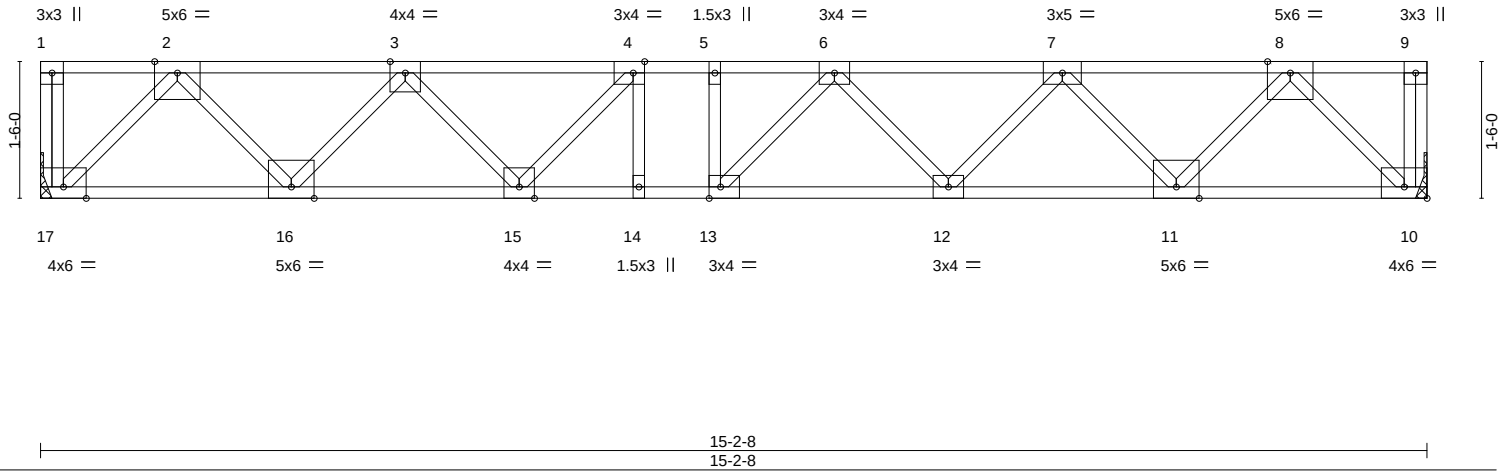

15-2-8
15-2-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:Edge,0-1-8], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.22	13	>814	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.28	12-13	>647	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=Mechanical, 10=Mechanical
Max Grav 17=1870(LC 1), 10=1870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2888/0, 3-4=-4515/0, 4-5=-5052/0, 5-6=-5052/0, 6-7=-4521/0, 7-8=-2886/0
BOT CHORD 16-17=0/1757, 15-16=0/3993, 14-15=0/5052, 13-14=0/5052, 12-13=0/5026, 11-12=0/3991, 10-11=0/1758
WEBS 8-10=-2486/0, 2-17=-2485/0, 8-11=0/1678, 2-16=0/1681, 7-11=-1643/0, 3-16=-1642/0, 7-12=0/788, 3-15=0/850, 6-12=-751/0, 4-15=-1004/0, 6-13=-476/636, 4-14=-308/355

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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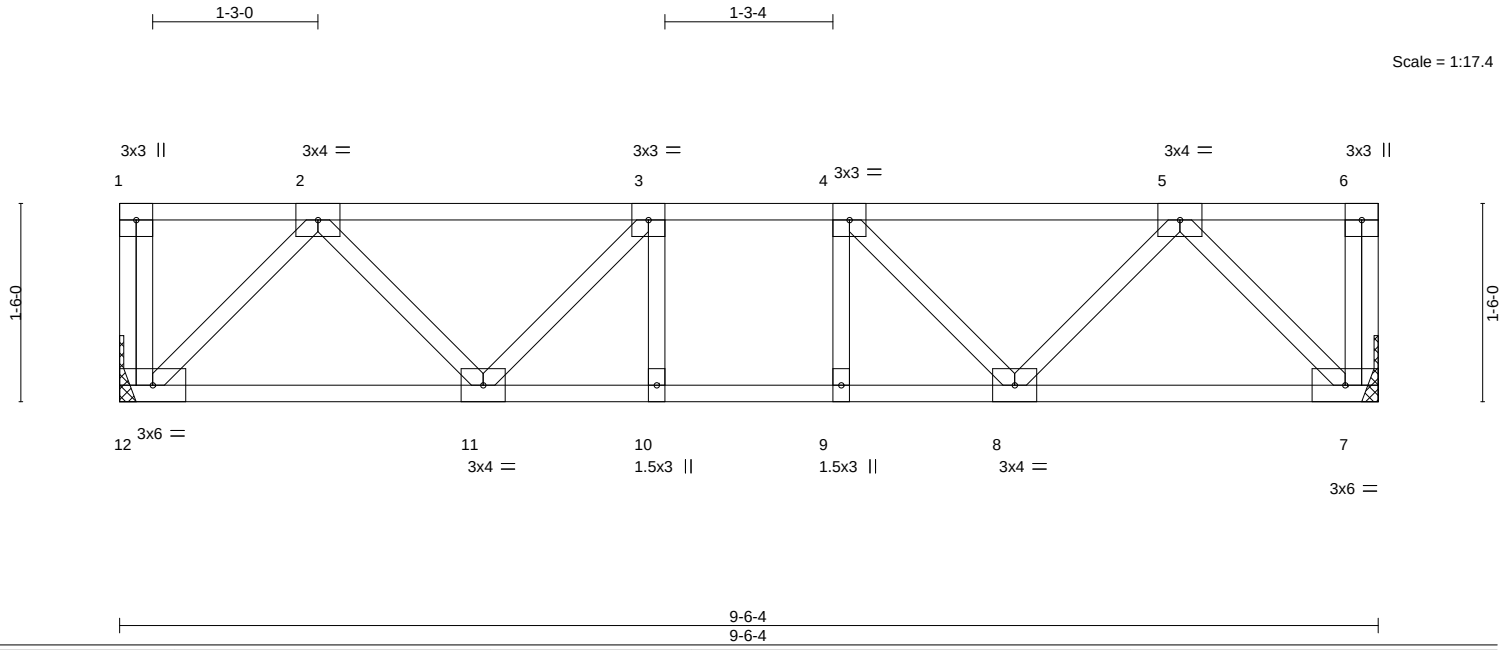
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C22	Floor	3	1	I50651314
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:40 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-ddnFPmojkKjsluDvFNHc0Md_XlvDSJshXo8uXkzd02z



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Grav 12=1159(LC 1), 7=1159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1519/0, 3-4=-1970/0, 4-5=-1519/0
BOT CHORD	11-12=0/1064, 10-11=0/1970, 9-10=0/1970, 8-9=0/1970, 7-8=0/1064
WEBS	5-7=-1505/0, 2-12=-1505/0, 5-8=0/675, 2-11=0/675, 4-8=-707/0, 3-11=-707/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C23	Floor	4	1	I50651315
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:40 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-ddnFPmojkKjsIuDvFNHc0Md?ZlxpSJKhXo8uXkzd02z

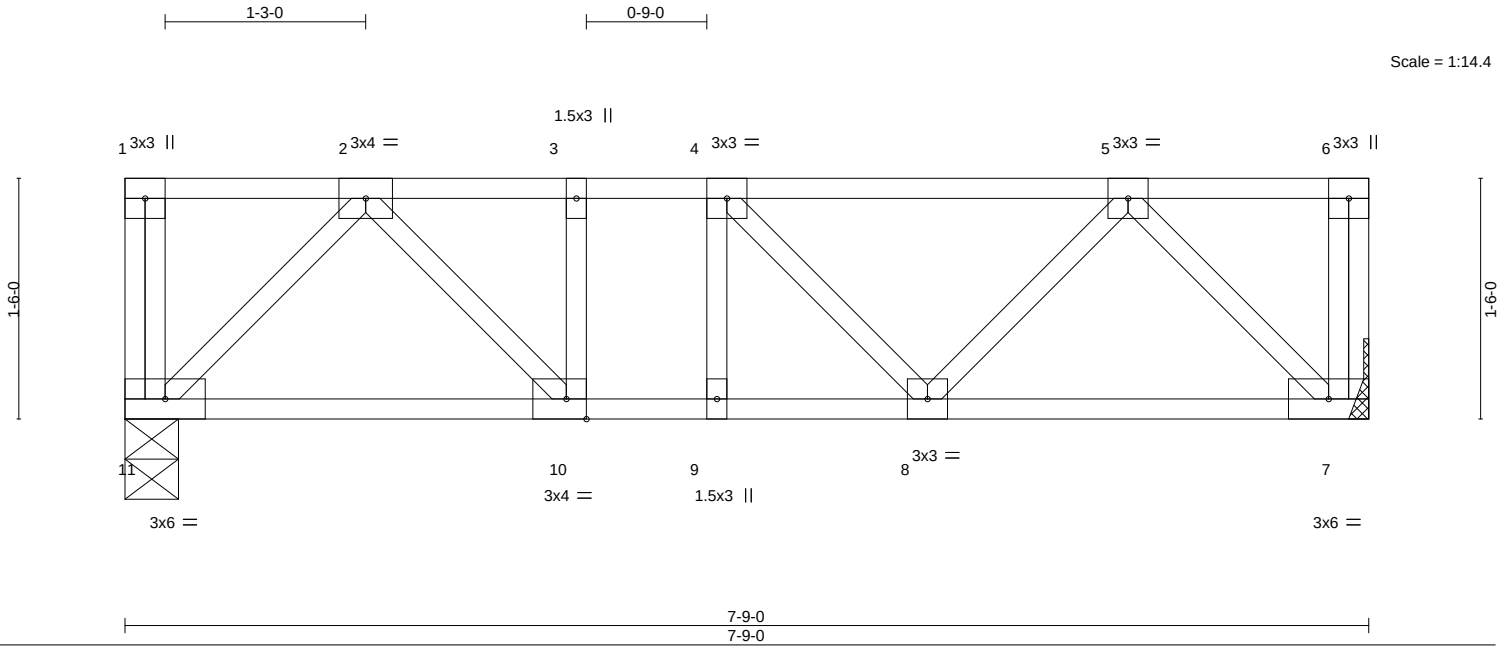

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.06	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=Mechanical
Max Grav 11=938(LC 1), 7=938(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1261/0, 3-4=-1261/0, 4-5=-1097/0
BOT CHORD 10-11=0/801, 9-10=0/1261, 8-9=0/1261, 7-8=0/856
WEBS 5-7=-1211/0, 2-11=-1133/0, 5-8=0/359, 2-10=0/696, 4-8=-318/0, 3-10=-307/0, 4-9=-276/35

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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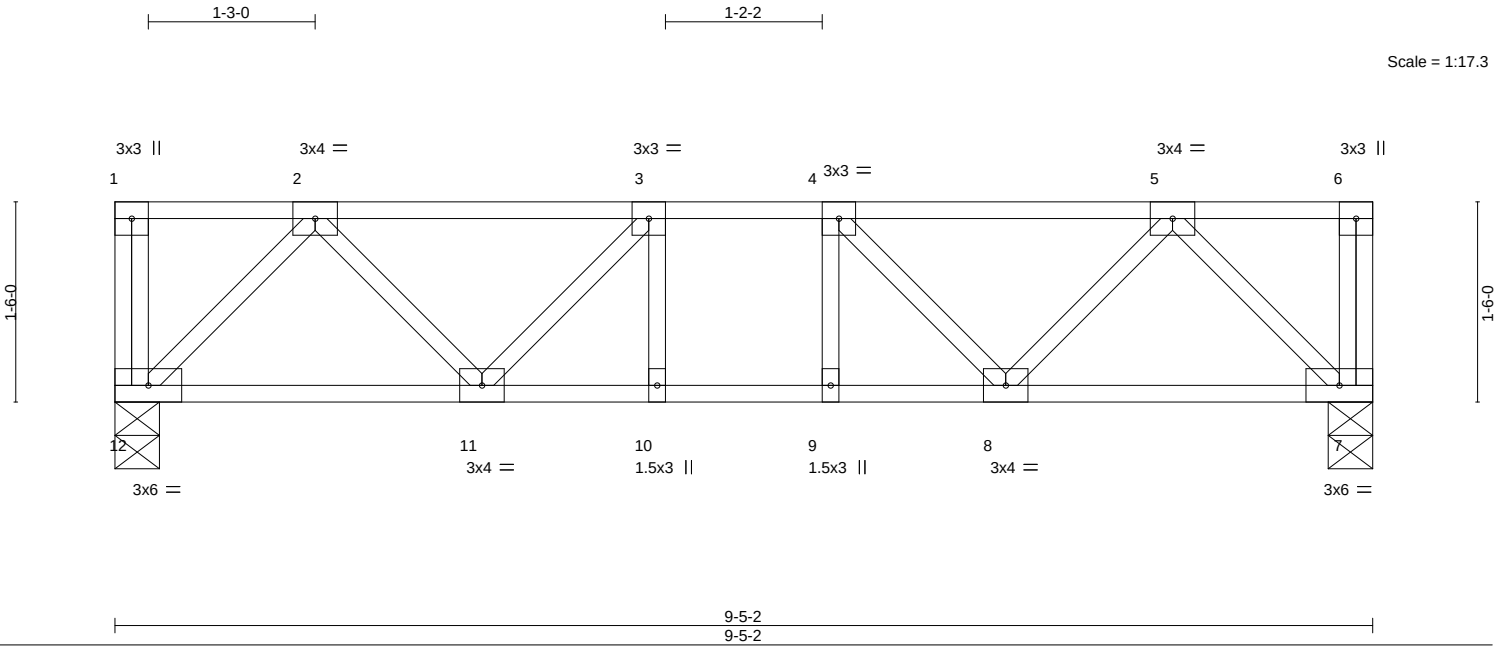
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C24	Floor	7	1	I50651316
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:41 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-5pLec6pLVerjw2o5o4orYa9AN9G0BmAqmSuS3Bzd02y



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.08	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-4-0
Max Grav 12=1147(LC 1), 7=1147(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1496/0, 3-4=-1936/0, 4-5=-1496/0
BOT CHORD	11-12=0/1053, 10-11=0/1936, 9-10=0/1936, 8-9=0/1936, 7-8=0/1053
WEBS	5-7=-1489/0, 2-12=-1489/0, 5-8=0/658, 2-11=0/658, 4-8=-685/0, 3-11=-685/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	C25	Floor	11	1	I50651317
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:42 2022 Page 1
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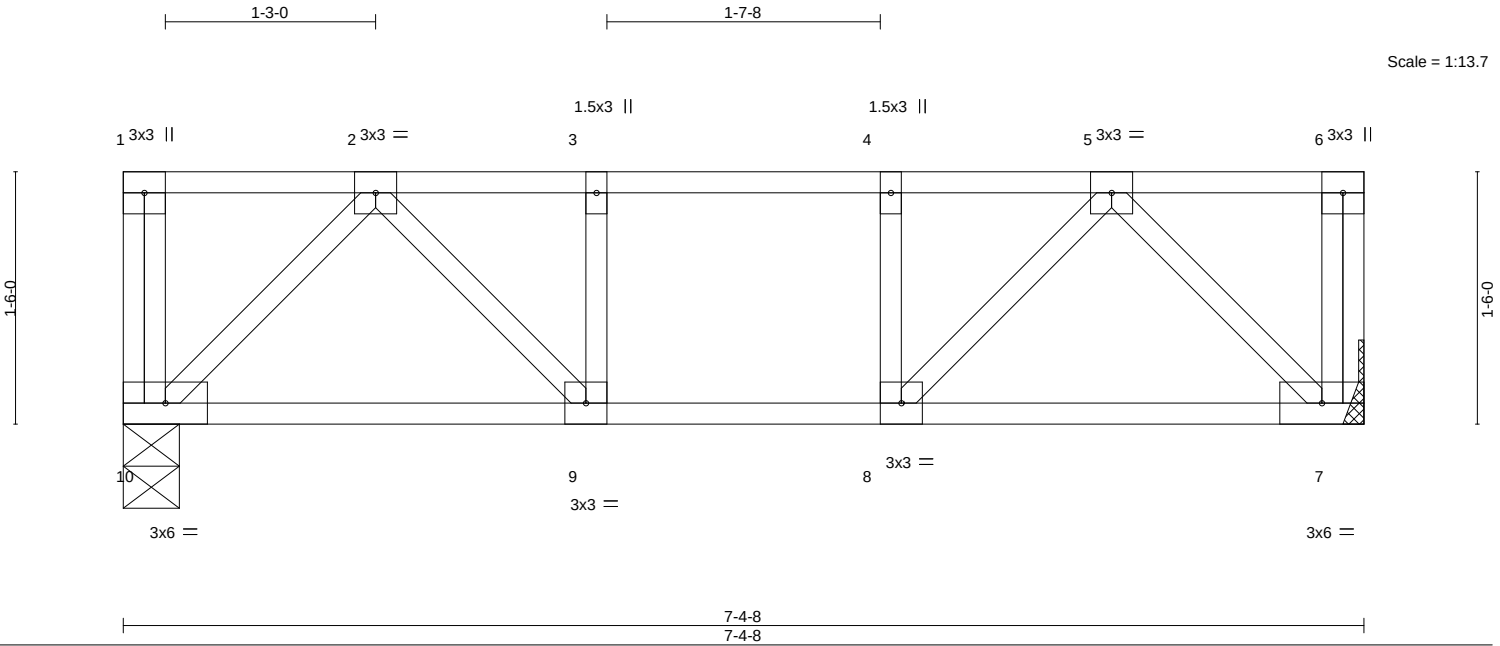

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=891(LC 1), 7=891(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1120/0, 3-4=-1120/0, 4-5=-1120/0
BOT CHORD	9-10=0/742, 8-9=0/1120, 7-8=0/742
WEBS	5-7=-1049/0, 2-10=-1049/0, 5-8=0/636, 2-9=0/636, 3-9=-384/0, 4-8=-384/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F1	Floor Girder	1	1	I50651318
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:48 2022 Page 1
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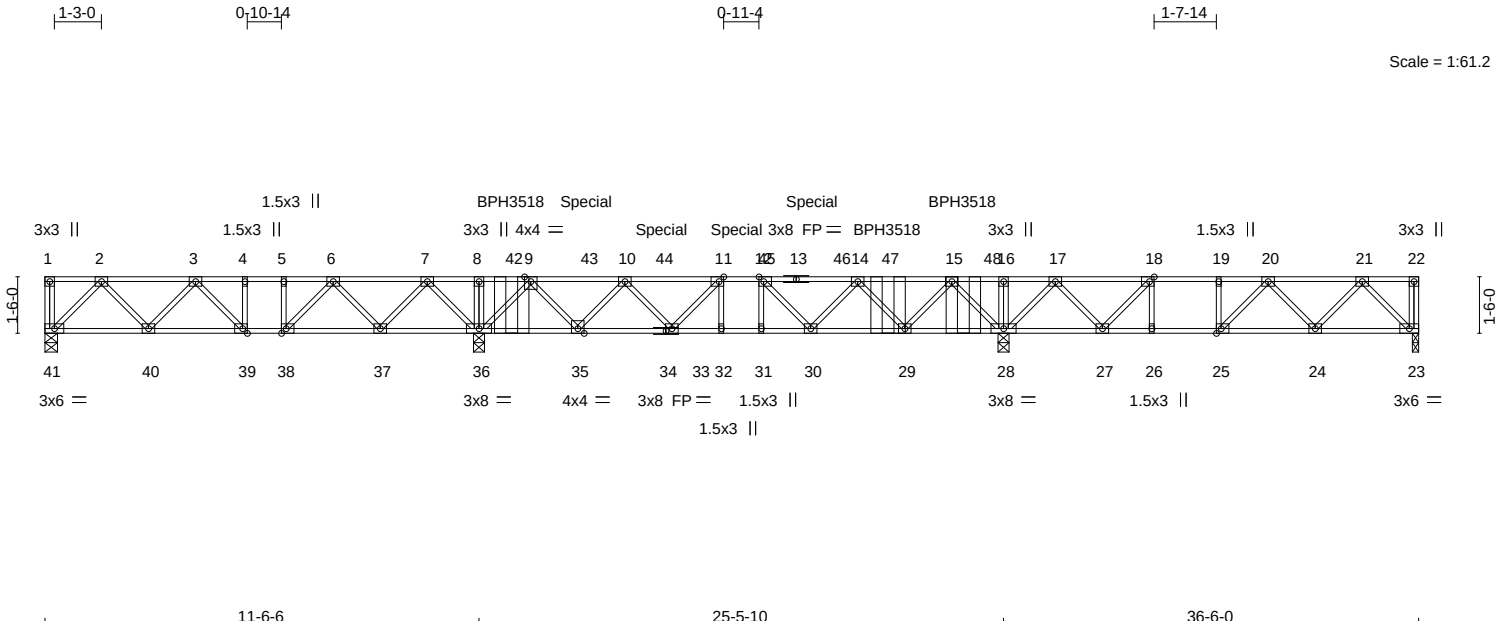

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [18:0-1-8,Edge], [25:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.08	24-25	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.12	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 13-22: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 1-41,22-23: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 23=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=767(LC 27), 23=735(LC 27), 36=1984(LC 46), 28=1856(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1108/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1222/338, 7-8=-248/1446, 8-9=-248/1446, 9-10=-277/844, 10-11=-942/1466, 11-12=-1232/1578, 12-14=-1125/1179, 14-15=-604/425, 15-16=-212/997, 16-17=-212/997, 17-18=-1155/184, 18-19=-1486/0, 19-20=-1486/0, 20-21=-1051/0

BOT CHORD 40-41=0/710, 39-40=0/1482, 38-39=0/1631, 37-38=-97/1549, 36-37=-608/867, 35-36=-494/0, 33-35=-1356/701, 32-33=-1578/1232, 31-32=-1578/1232, 30-31=-1578/1232, 29-30=-839/989, 28-29=-151/293, 27-28=-432/830, 26-27=0/1486, 25-26=0/1486, 24-25=0/1391, 23-24=0/679

WEBS 2-41=-1005/0, 7-36=-1184/0, 2-40=0/592, 7-37=0/782, 3-40=-555/0, 6-37=-778/0, 3-39=-253/298, 6-38=0/553, 5-38=-283/0, 15-28=-1308/343, 9-36=-1346/830, 15-29=-586/782, 9-35=-721/874, 14-29=-758/616, 10-35=-843/762, 14-30=-517/207, 10-33=-163/418, 12-30=-155/626, 11-33=-420/162, 21-23=-960/0, 17-28=-1028/0, 21-24=0/553, 17-27=0/731, 20-24=-506/0, 18-27=-822/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Load case(s) 45, 46 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 10-0-0 oc max. starting at 12-4-13 from the left end to 24-4-13 to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
					I50651318
PRYOR-2BC	F1	Floor Girder	1	1	Job Reference (optional)

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 15 lb down and 465 lb up at 14-4-13, 15 lb down and 465 lb up at 16-4-13, and 15 lb down and 465 lb up at 18-4-13, and 15 lb down and 465 lb up at 20-4-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 23-41=-10, 1-22=-120
   Concentrated Loads (lb)
   Vert: 42=-91(F) 43=65(F) 44=65(F) 45=65(F) 46=65(F) 47=-91(F) 48=-91(F)
45) Reversal: User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 23-41=-10(F), 1-22=-120(F)
   Concentrated Loads (lb)
   Vert: 42=-91(F) 43=345(F) 44=345(F) 45=345(F) 46=345(F) 47=-91(F) 48=-91(F)
46) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 23-41=-10(F), 1-22=-120(F)
   Concentrated Loads (lb)
   Vert: 42=-91(F) 47=-91(F) 48=-91(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F1G	Floor Girder	1	1	I50651319
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:11 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Da9zvNAARrdSWf5sZOKumuPHSFX6DK1Ff7917Rzd02U

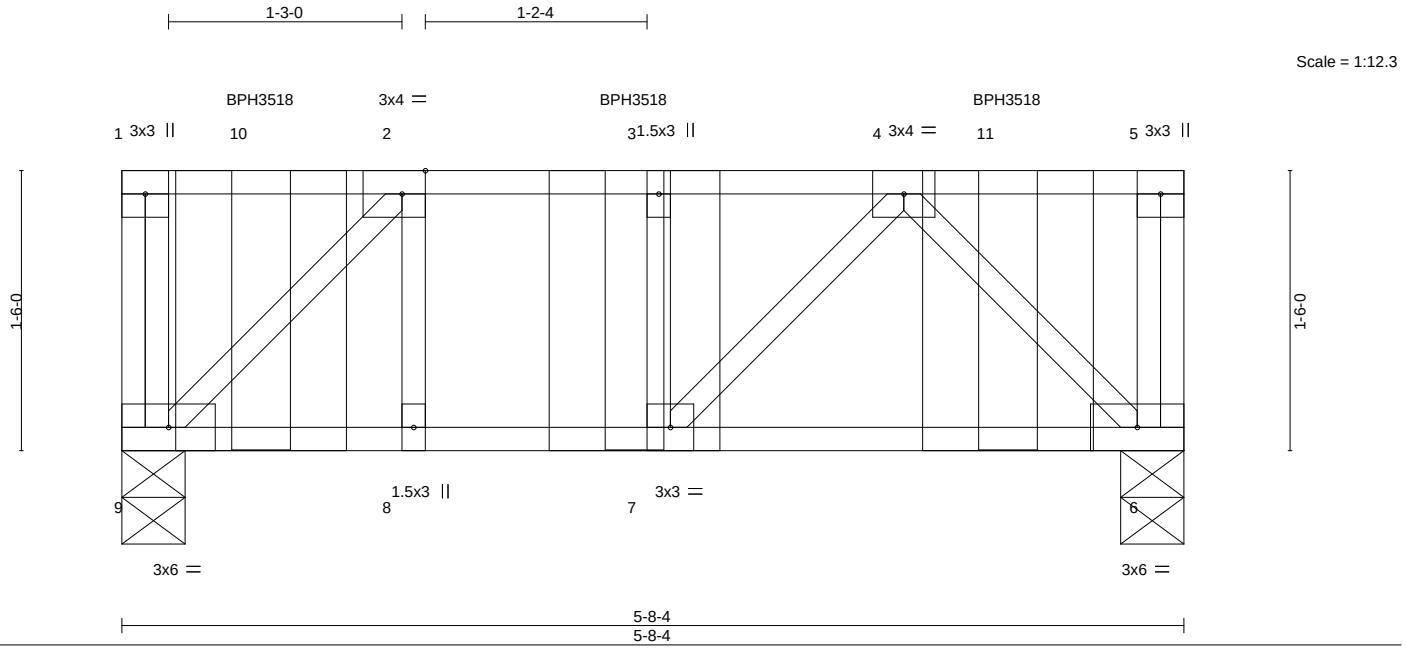

Plate Offsets (X,Y)-- [2:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.07	6-7	>993	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.09	6-7	>741	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-1, 6=0-4-1
Max Grav 9=1391(LC 1), 6=1341(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-310/0, 2-3=-1186/0, 3-4=-1186/0
BOT CHORD 8-9=0/1186, 7-8=0/1186, 6-7=0/1062
WEBS 4-6=-1501/0, 2-9=-1641/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-15 from the left end to 4-8-15 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 3=-664(F) 10=-686(F) 11=-675(F)

March 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

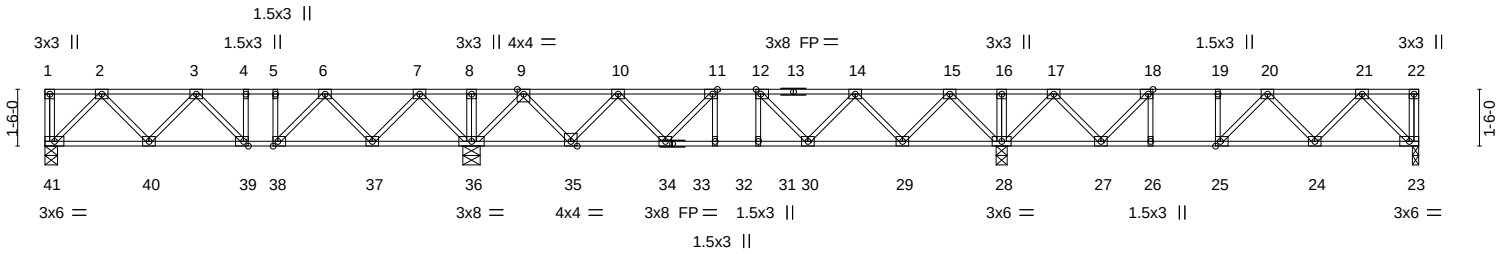
Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F2	Floor	9	1	I50651320
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:12 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-hniM7jBoC9lJ8pg375r7J6ySBfsUynfPunubguzd02T

1-3-0 0-7-14 1-0-4 1-7-14

Scale = 1:60.9



11-3-6 25-3-10 36-4-0
11-3-6 14-0-4 11-0-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [18:0-1-8,Edge], [25:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.09	24-25	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.14	24-25	>952	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 23=0-2-0, 36=0-5-8, 28=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=618(LC 5), 23=651(LC 5), 36=1906(LC 16), 28=1715(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-830/0, 3-4=-1028/12, 4-5=-1028/12, 5-6=-1028/12, 6-7=-359/488, 7-8=0/1473, 8-9=0/1473, 9-10=-307/257, 10-11=-1112/0, 11-12=-1372/0, 12-14=-1215/0, 14-15=-599/1, 15-16=0/1015, 16-17=0/1015, 17-18=-649/193, 18-19=-1116/0, 19-20=-1116/0, 20-21=-898/0
BOT CHORD 40-41=0/562, 39-40=0/1062, 38-39=-12/1028, 37-38=-229/798, 36-37=-756/0, 35-36=-575/0, 34-35=-31/856, 32-34=0/1372, 31-32=0/1372, 30-31=0/1372, 29-30=0/1045, 27-28=-437/237, 26-27=0/1116, 25-26=0/1116, 24-25=0/1151, 23-24=0/596
WEBS 2-41=-795/0, 7-36=-1182/0, 2-40=0/398, 7-37=0/771, 3-40=-345/22, 6-37=-762/0, 3-39=-303/0, 6-38=0/552, 5-38=-267/0, 15-28=-1139/0, 9-36=-1301/0, 15-29=0/769, 9-35=0/909, 14-29=-743/0, 10-35=-876/0, 14-30=0/295, 10-34=0/449, 12-30=-260/0, 11-34=-468/0, 21-23=-843/0, 17-28=-1026/0, 21-24=0/449, 17-27=0/703, 20-24=-375/0, 18-27=-808/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F2G	FLOOR GIRDER	1	1	I50651321
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:28 2022 Page 1
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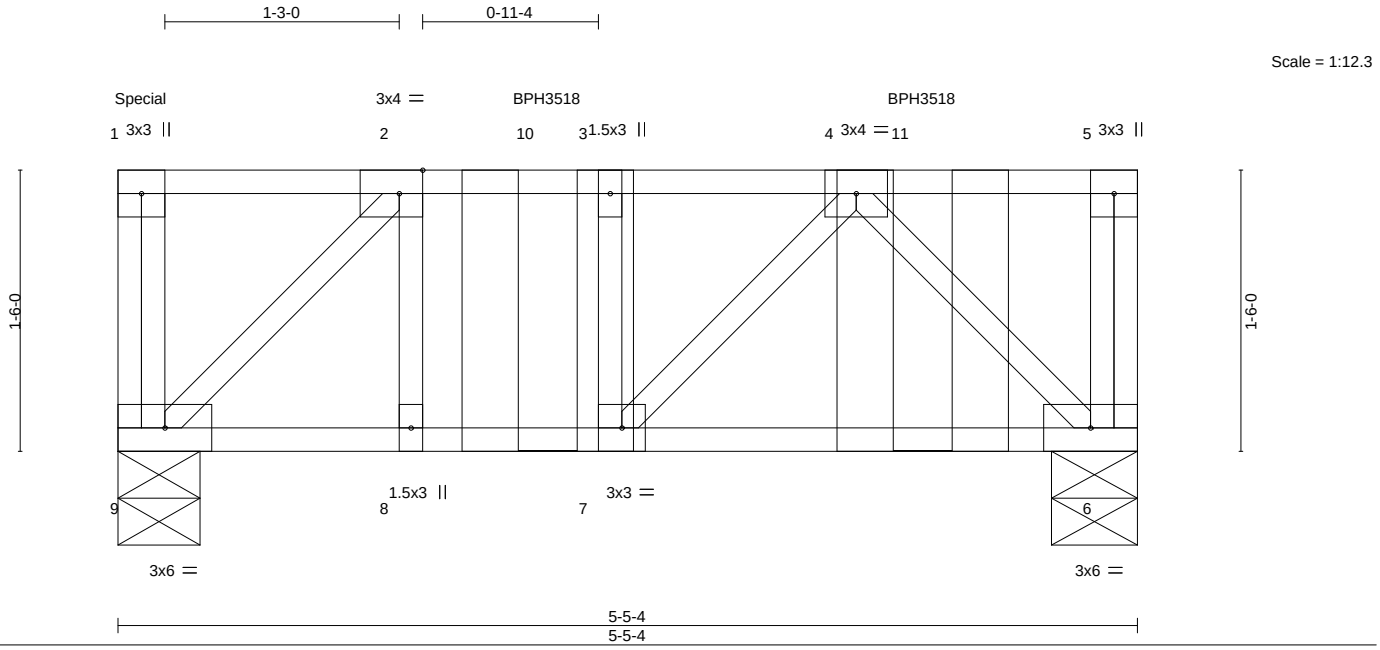

Plate Offsets (X,Y)-- [2:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.06	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.08	6-7	>792	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 35 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-5-4, 6=0-5-8
Max Grav 9=1568(LC 1), 6=1148(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-682/0, 2-3=-982/0, 3-4=-982/0
BOT CHORD 8-9=0/982, 7-8=0/982, 6-7=0/949
WEBS 4-6=-1342/0, 2-9=-1358/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-8 from the left end to 4-3-8 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 760 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-714(F) 10=-664(F) 11=-664(F)

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F3	Floor	3	1	I50651322
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:30 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-9Eo9utP4zh0mIa2WAtAL1vhV4v1X9su21aFYIrzd02B

1-3-0 0-7-14 0-2-8 1-2-10

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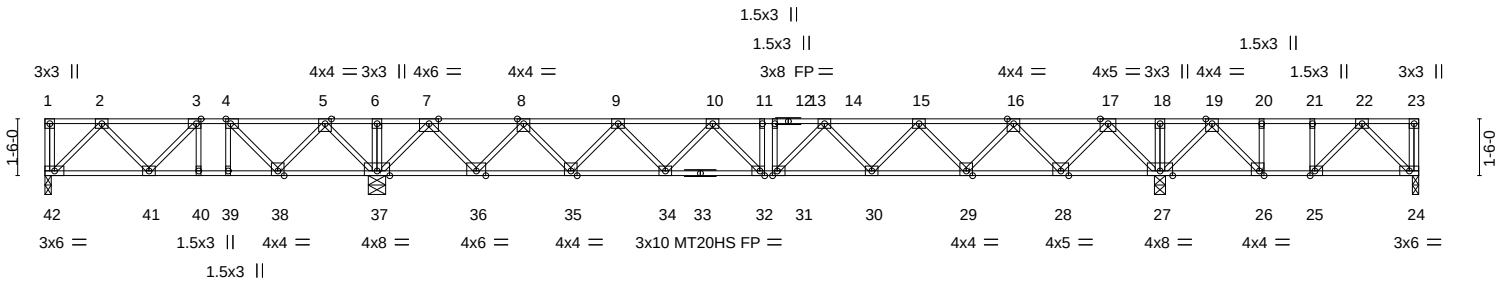

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-9-6 29-5-14 36-4-0
8-9-6 20-8-8 6-10-2

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.18	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.29	30-31	>862	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 13-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 37=0-5-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 42=-203(LC 6), 24=-191(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 42=372(LC 5), 24=293(LC 5), 37=2429(LC 16), 27=2098(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-353/521, 3-4=-313/966, 4-5=0/1553, 5-6=0/2768, 6-7=0/2768, 7-8=0/515, 8-9=-1336/0, 9-10=-2372/0, 10-11=-2866/0, 11-12=-2866/0, 12-14=-2866/0, 14-15=-2606/0, 15-16=-1805/0, 16-17=-413/0, 17-18=0/1827, 18-19=0/1827, 19-20=-177/670, 20-21=-177/670, 21-22=-177/670
BOT CHORD 41-42=-205/329, 40-41=-966/313, 39-40=-966/313, 38-39=-966/313, 37-38=-2041/0, 36-37=-1433/0, 35-36=0/656, 34-35=0/1993, 32-34=0/2730, 31-32=0/2866, 30-31=0/2855, 29-30=0/2343, 28-29=0/1250, 27-28=-625/0, 26-27=-1264/0, 25-26=-670/177
WEBS 2-42=-465/290, 2-41=-469/36, 3-41=0/645, 3-40=-433/0, 5-37=-1280/0, 5-38=0/939, 4-38=-1079/0, 4-39=0/448, 17-27=-1711/0, 17-28=0/1323, 16-28=-1274/0, 16-29=0/855, 15-29=-827/0, 15-30=0/416, 14-30=-376/0, 14-31=-252/270, 7-37=-1888/0, 7-36=0/1476, 8-36=-1453/0, 8-35=0/1036, 9-35=-1000/0, 9-34=0/586, 10-34=-556/0, 10-32=-97/424, 19-27=-996/0, 19-26=0/1026, 22-24=-304/320, 22-25=-642/0, 21-25=0/338, 20-26=-562/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 42 and 191 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F3G	Floor Girder	1	1	I50651323
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:38 2022 Page 1
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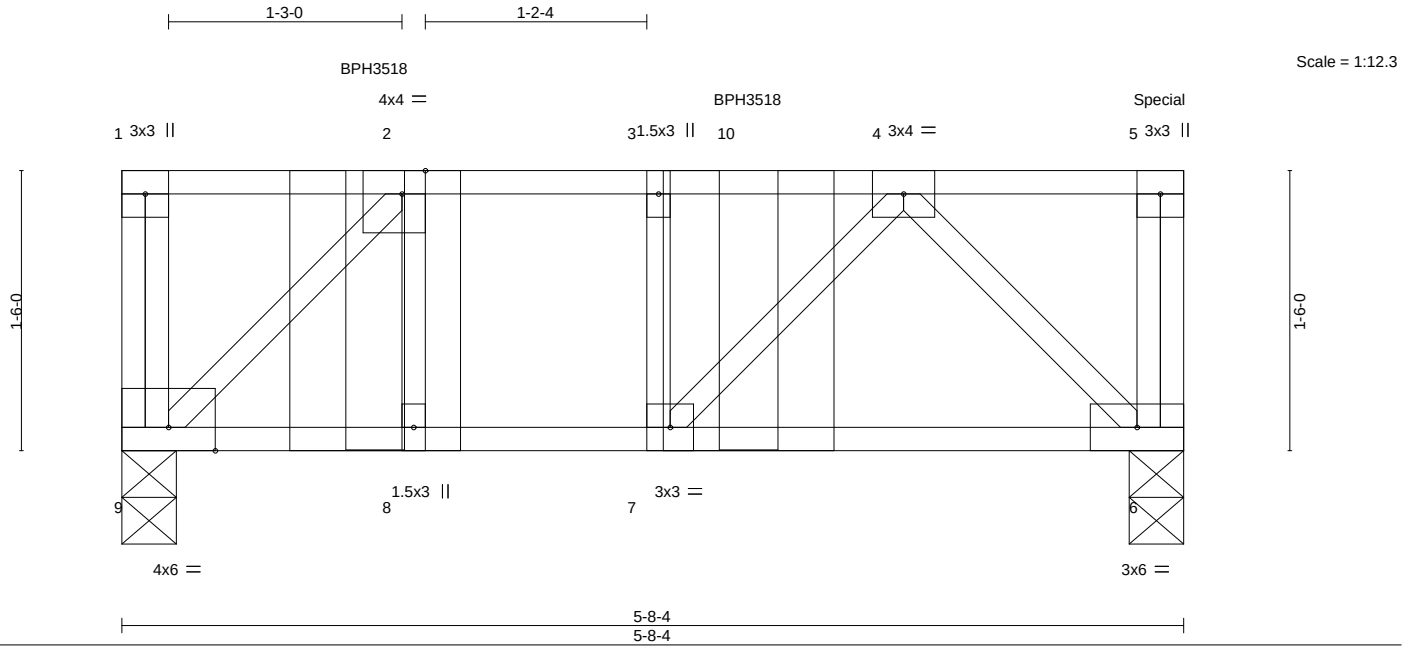

Plate Offsets (X,Y)-- [2:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.06	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.08	6-7	>834	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1203(LC 1), 6=1784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-802/43, 2-3=-1282/0, 3-4=-1282/0
BOT CHORD 8-9=0/1282, 7-8=0/1282, 6-7=0/954
WEBS 4-6=-1350/0, 2-9=-1774/0, 4-7=-24/527, 3-7=-451/23

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-4 from the left end to 3-4-4 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 840 lb down and 114 lb up at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 5=-792(F) 2=-744(F) 10=-744(F)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F4	Floor	1	1	I50651324
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:40 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-t9Px?HXMcmHLV6pRmzMhR06FhxQcVQyWK8g4fGzd021

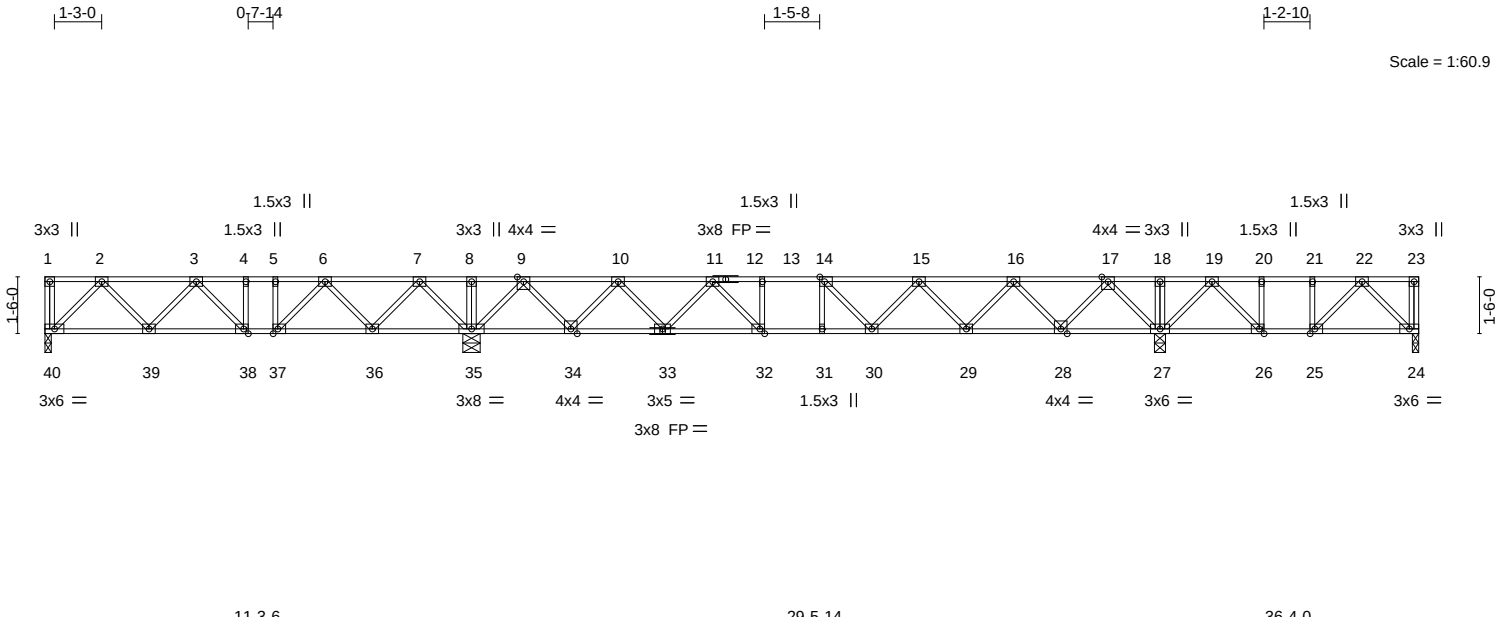

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.12	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.19	30-31	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	27	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 35=0-5-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 40=472(LC 5), 24=256(LC 5), 35=1780(LC 16), 27=1517(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-624/13, 3-4=-736/273, 4-5=-736/273, 5-6=-736/273, 6-7=-154/796, 7-8=0/1667, 8-9=0/1667, 10-11=-1138/0, 11-13=-1799/0, 13-14=-1799/0, 14-15=-1749/0, 15-16=-1288/0, 16-17=-367/0, 17-18=0/1197, 18-19=0/1197, 19-20=-194/405, 20-21=-194/405, 21-22=-194/405
BOT CHORD 39-40=0/428, 38-39=-87/789, 37-38=-273/736, 36-37=-527/526, 35-36=-1067/0, 34-35=-738/0, 33-34=0/748, 32-33=0/1531, 31-32=0/1799, 30-31=0/1799, 29-30=0/1642, 28-29=0/928, 27-28=-349/0, 26-27=-800/0, 25-26=-405/194
WEBS 2-40=-605/0, 7-35=-1028/0, 2-39=-56/291, 7-36=0/695, 6-36=-696/0, 3-38=-358/0, 6-37=0/557, 5-37=-267/0, 17-27=-1222/0, 9-35=-1313/0, 17-28=0/910, 9-34=0/995, 16-28=-871/0, 10-34=-963/0, 16-29=0/546, 10-33=0/608, 15-29=-530/0, 11-33=-618/0, 11-32=0/539, 22-24=-272/183, 19-27=-726/0, 22-25=-399/3, 19-26=0/703, 20-26=-379/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 24.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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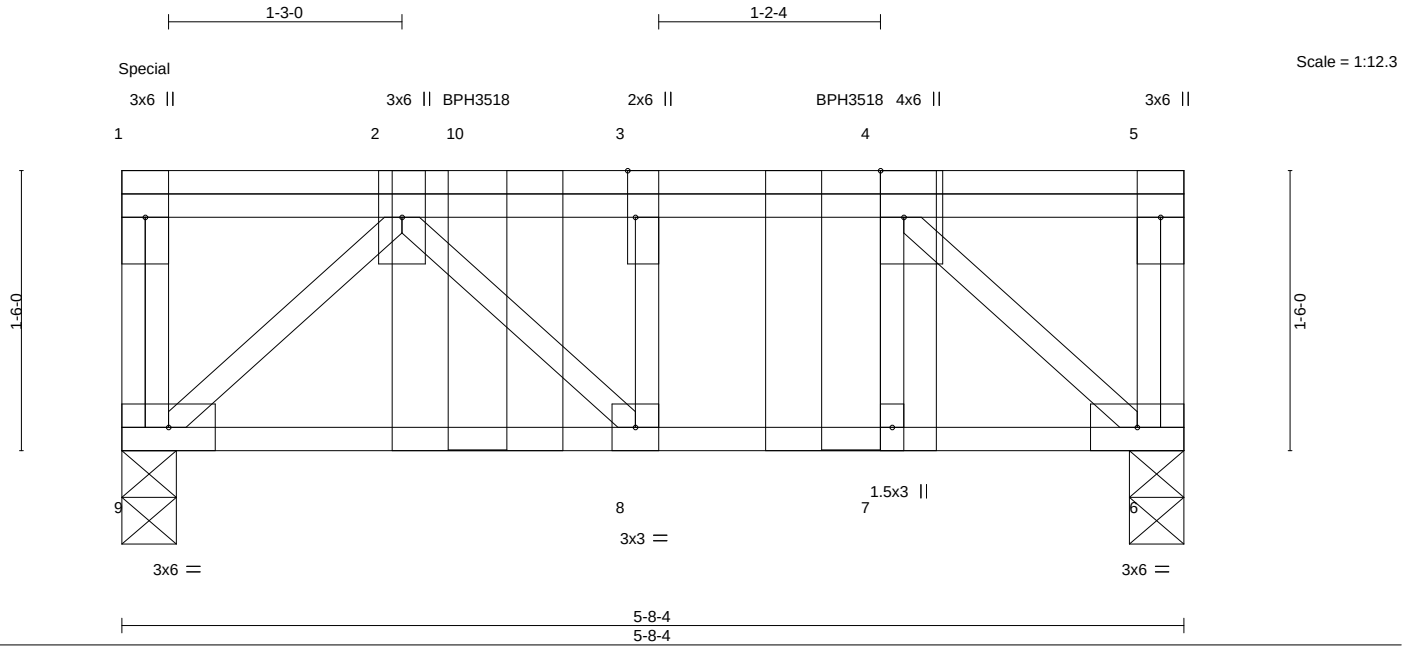
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F4G	FLOOR GIRDER	1	1	I50651325
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:58 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-LdUlmRlfNIYnftBuplgvApsPRCfdjadATx11HDzd01l



Scale = 1:12.3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.03	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.04	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1868(LC 1), 6=1144(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-830/31, 2-3=-1228/0, 3-4=-1228/0
BOT CHORD 8-9=0/1069, 7-8=0/1228, 6-7=0/1228
WEBS 2-9=-1478/0, 2-8=0/254, 4-6=-1662/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-14 from the left end to 3-10-14 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 849 lb down and 89 lb up at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 4=-744(F) 1=-817(F) 10=-744(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F5	Floor	1	1	I50651326
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:59 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-pp27_nmH8bgeH1m5NTB8j0Odsb1aS4kJibnapfzd01k

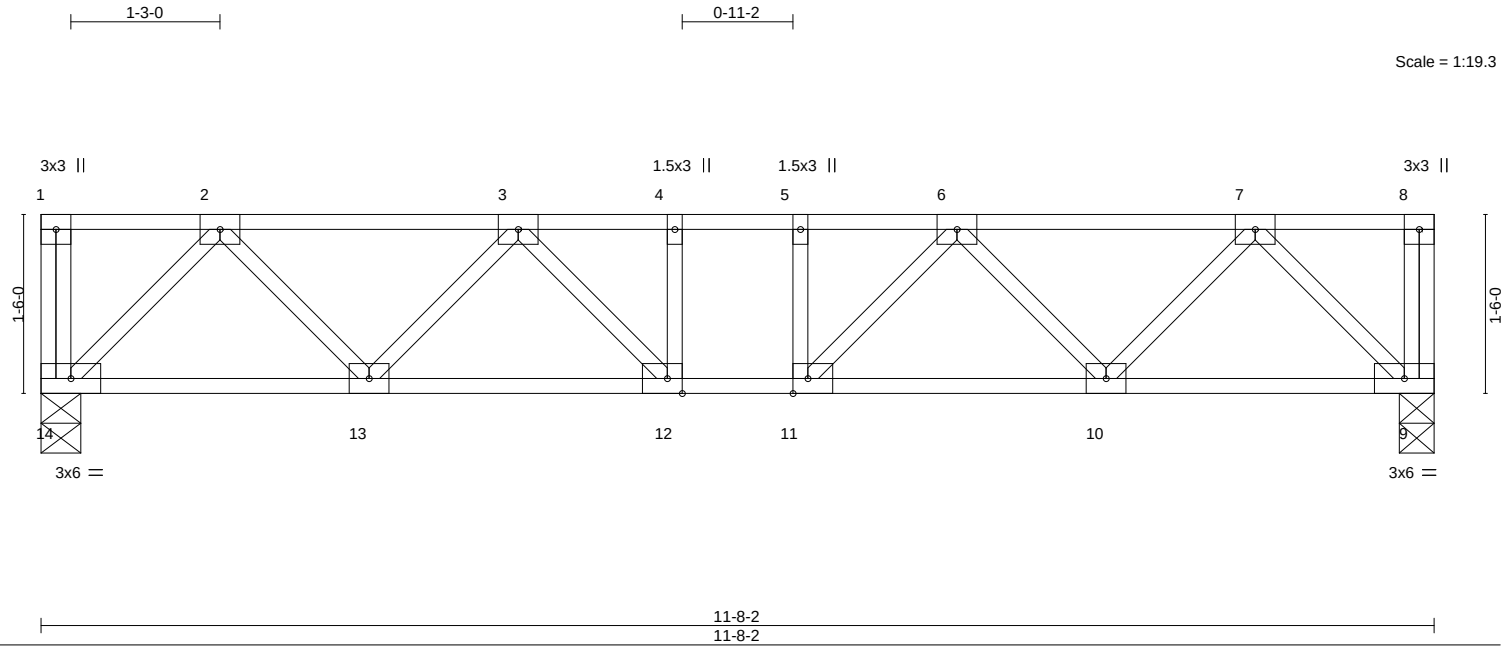

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-3-8
Max Grav 14=594(LC 1), 9=594(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-851/0, 3-4=-1225/0, 4-5=-1225/0, 5-6=-1225/0, 6-7=-851/0
BOT CHORD 13-14=0/549, 12-13=0/1131, 11-12=0/1225, 10-11=0/1131, 9-10=0/549
WEBS 7-9=-776/0, 2-14=-776/0, 7-10=0/449, 2-13=0/449, 6-10=-417/0, 3-13=-417/0, 6-11=-8/252, 3-12=-8/252

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F5G	Floor Girder	1	1	I50651327
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:09 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Wkfv4CtYngxEUaX0yZNU77pA8dNYoamn?8C694zd01a

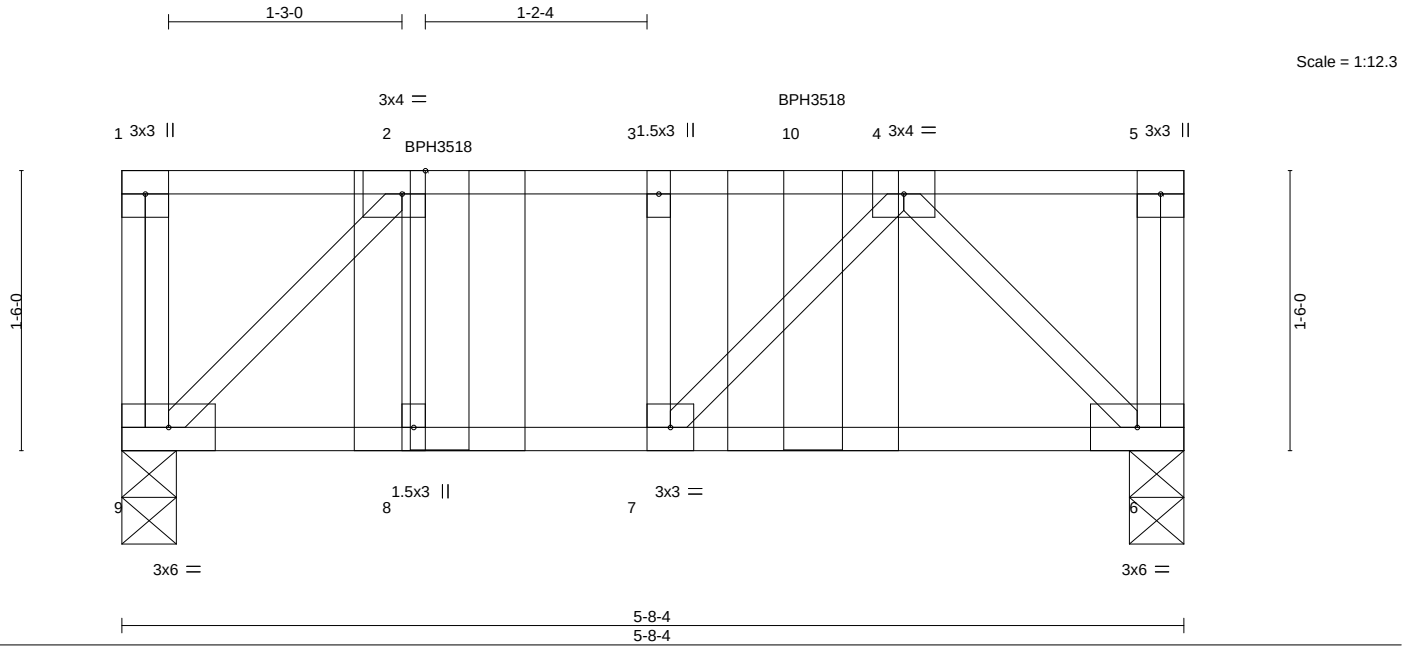

Plate Offsets (X,Y)-- [2:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.05	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.07	6-7	>969	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9,5-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1069(LC 1), 6=966(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1111/0
BOT CHORD 8-9=0/1111, 7-8=0/1111, 6-7=0/931
WEBS 4-6=-1317/0, 2-9=-1538/0, 4-7=0/293, 3-7=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-7 from the left end to 3-8-7 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-664(F) 10=-664(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F6	Floor	1	1	I50651328
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:10 2022 Page 1
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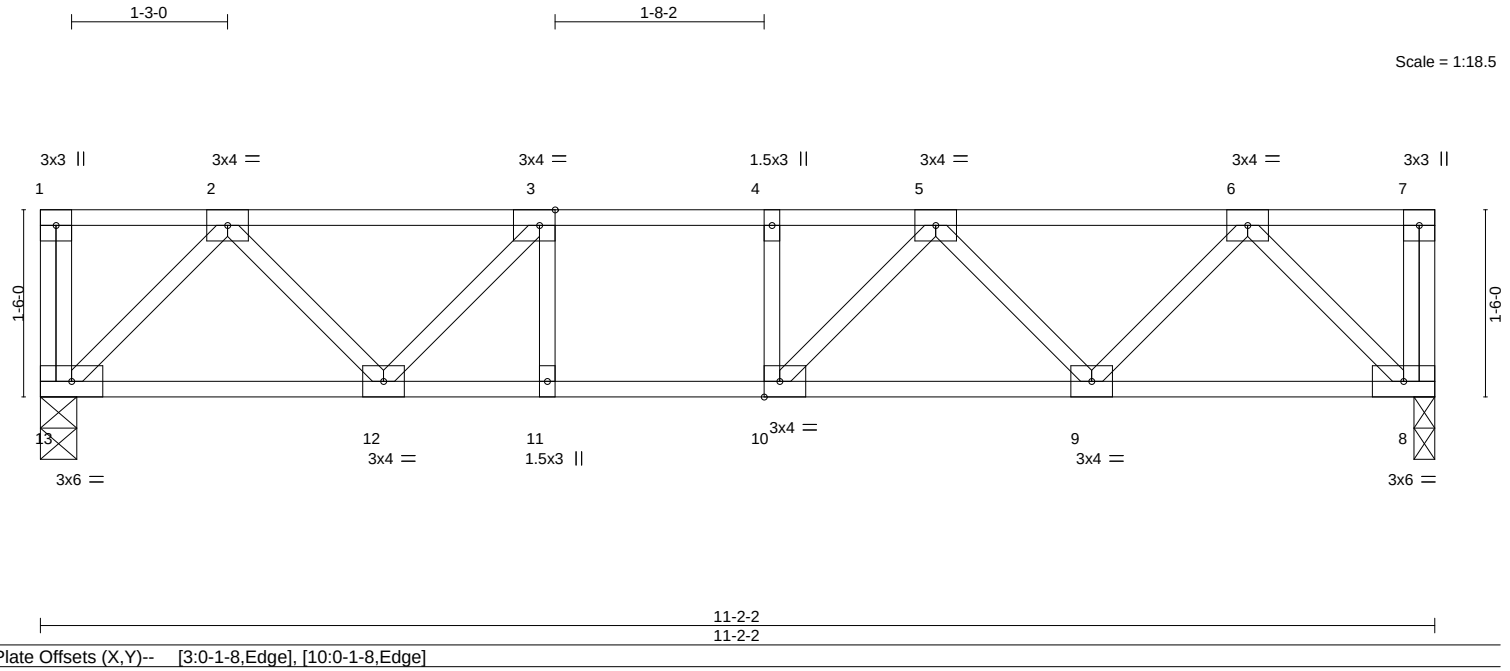

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-8, 8=0-2-0
Max Grav 13=568(LC 1), 8=568(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-802/0, 3-4=-1101/0, 4-5=-1101/0, 5-6=-805/0
BOT CHORD 12-13=0/517, 11-12=0/1101, 10-11=0/1101, 9-10=0/1056, 8-9=0/524
WEBS 6-8=-741/0, 2-13=-732/0, 6-9=0/418, 2-12=0/423, 5-9=-373/0, 3-12=-442/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F6G	FLOOR GIRDER	1	1	I50651329
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:20 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-isp3Oz0SB2KgIGs76N433Sm743ABtX4PXMMB2xzd01P

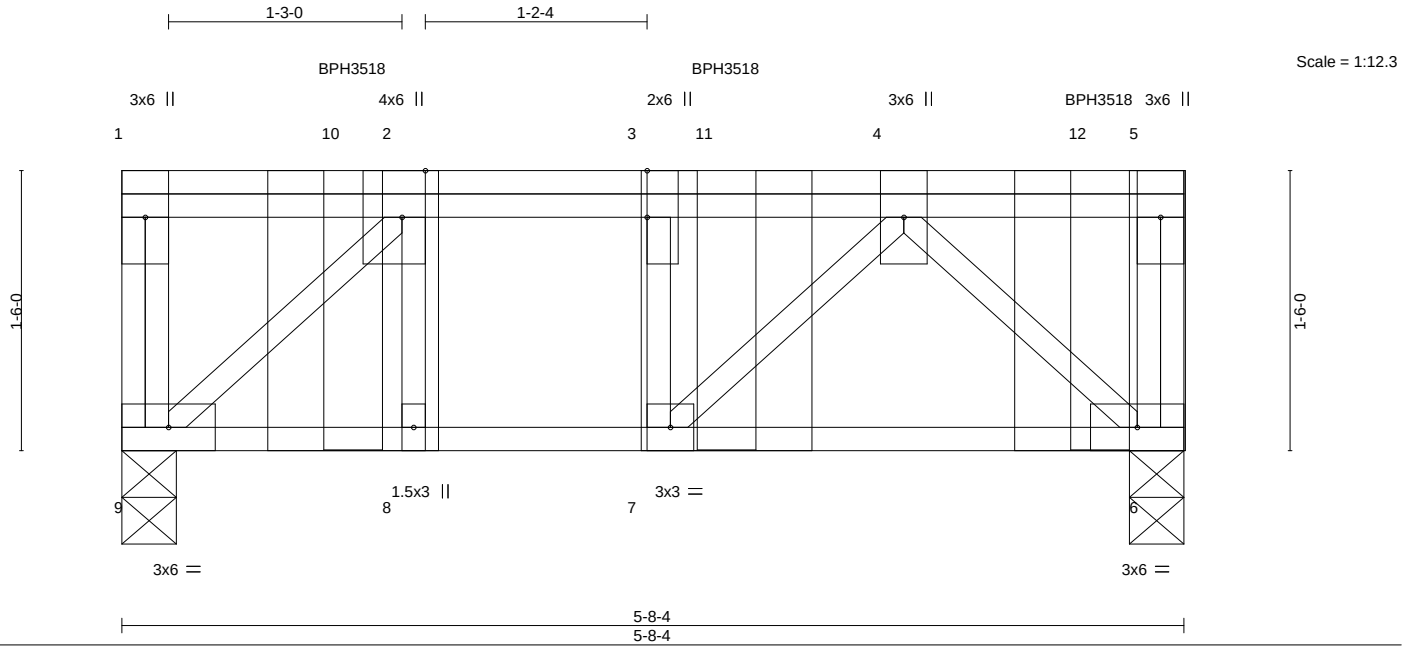

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1207(LC 1), 6=1531(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-522/0, 2-3=-1226/0, 3-4=-1226/0
BOT CHORD 8-9=0/1226, 7-8=0/1226, 6-7=0/1037
WEBS 4-6=-1434/0, 2-9=-1660/0, 4-7=0/315

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-14 from the left end to 5-2-14 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 10=-664(B) 11=-664(B) 12=-704(B)

March 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F7	Floor	13	1	I50651330
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:21 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-A2NRbJ14yMSXwQRJf4bIcfIJlTQFc_GYm06lbOzd01O

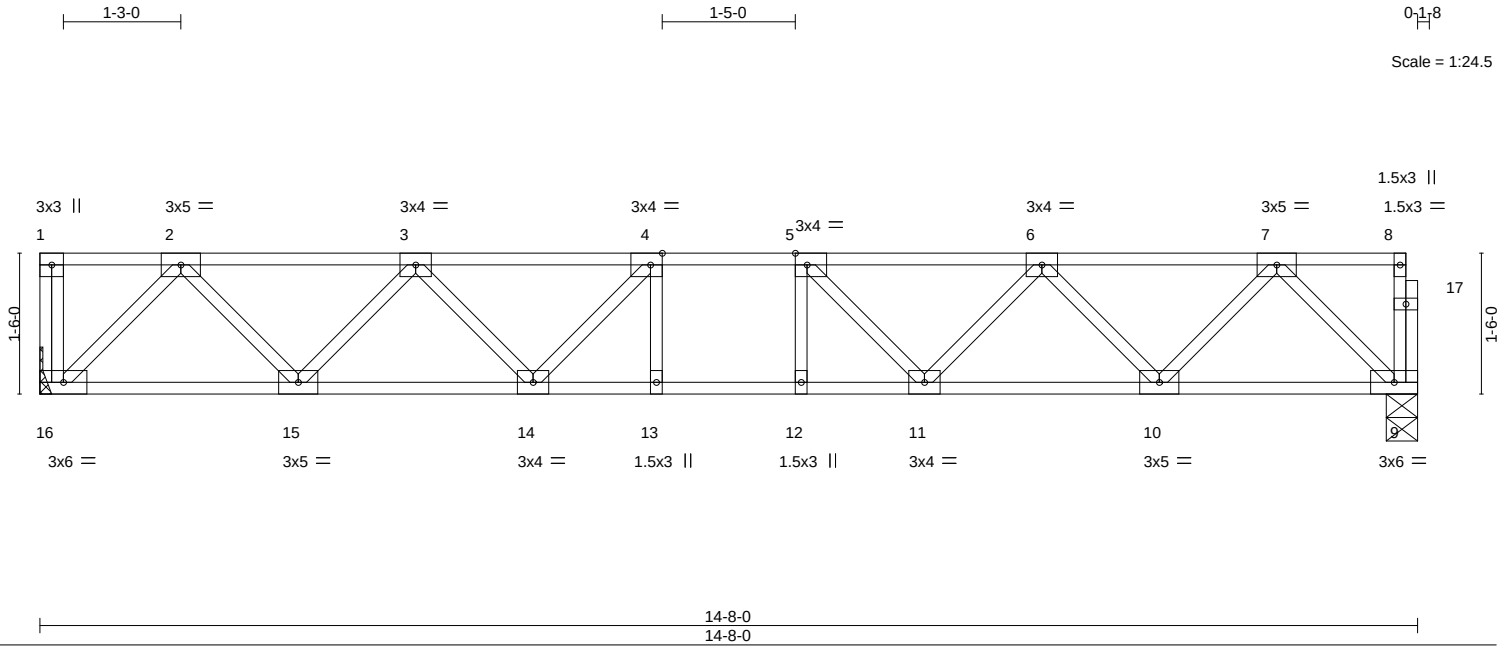

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-4-0
Max Grav 16=937(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1439/0, 3-4=-2218/0, 4-5=-2453/0, 5-6=-2218/0, 6-7=-1439/0
BOT CHORD 15-16=0/875, 14-15=0/1977, 13-14=0/2453, 12-13=0/2453, 11-12=0/2453, 10-11=0/1977, 9-10=0/874
WEBS 7-9=-1234/0, 2-16=-1238/0, 7-10=0/839, 2-15=0/838, 6-10=-800/0, 3-15=-799/0, 6-11=0/408, 3-14=0/408, 5-11=-476/0, 4-14=-476/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F7G	FLOOR GIRDER	1	1	I50651331
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:26 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-W0BKf04Dnu4p0BKHSeATJj07wUAhHCCIvIpVGbzd01J

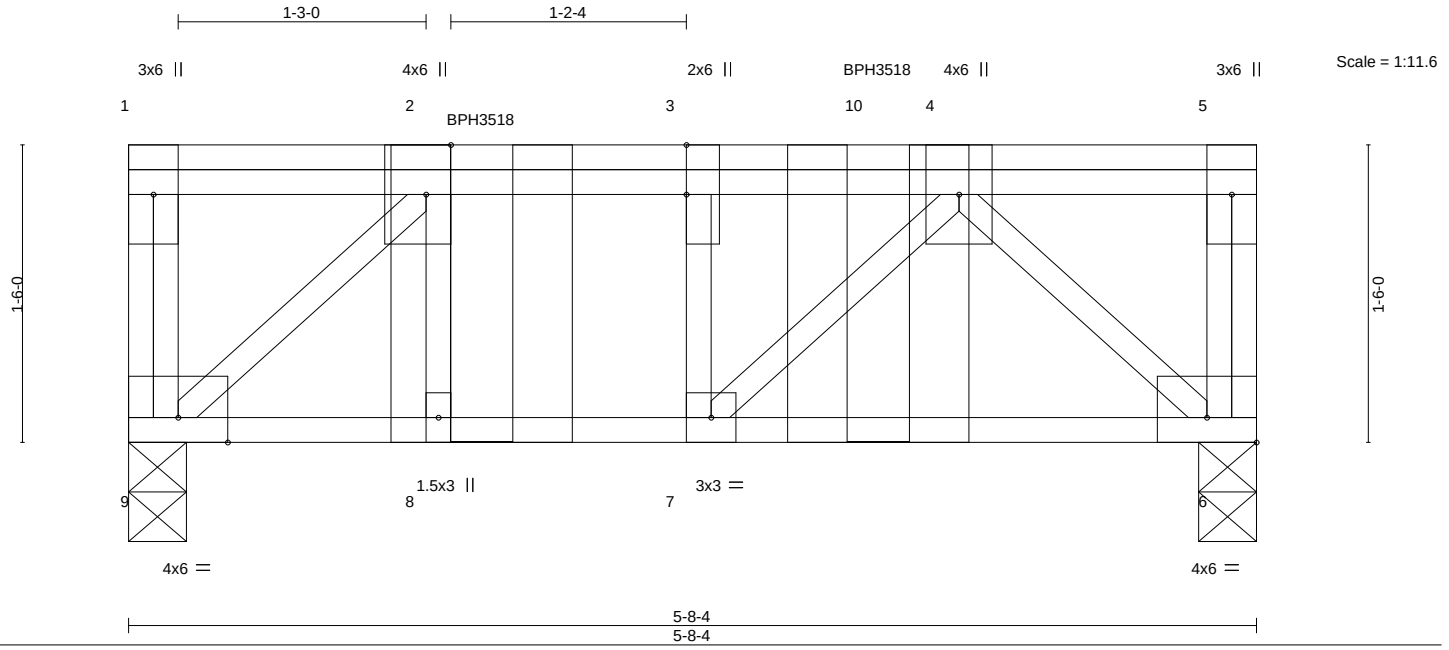

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [6:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.05	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1736(LC 1), 6=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1894/0, 3-4=-1894/0
BOT CHORD 8-9=0/1894, 7-8=0/1894, 6-7=0/1647
WEBS 4-6=-2277/0, 2-9=-2565/0, 4-7=0/380, 3-7=-281/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-6 from the left end to 3-9-6 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-1300(B) 10=-1300(B)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F8	Floor	5	1	I50651332
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:27 2022 Page 1
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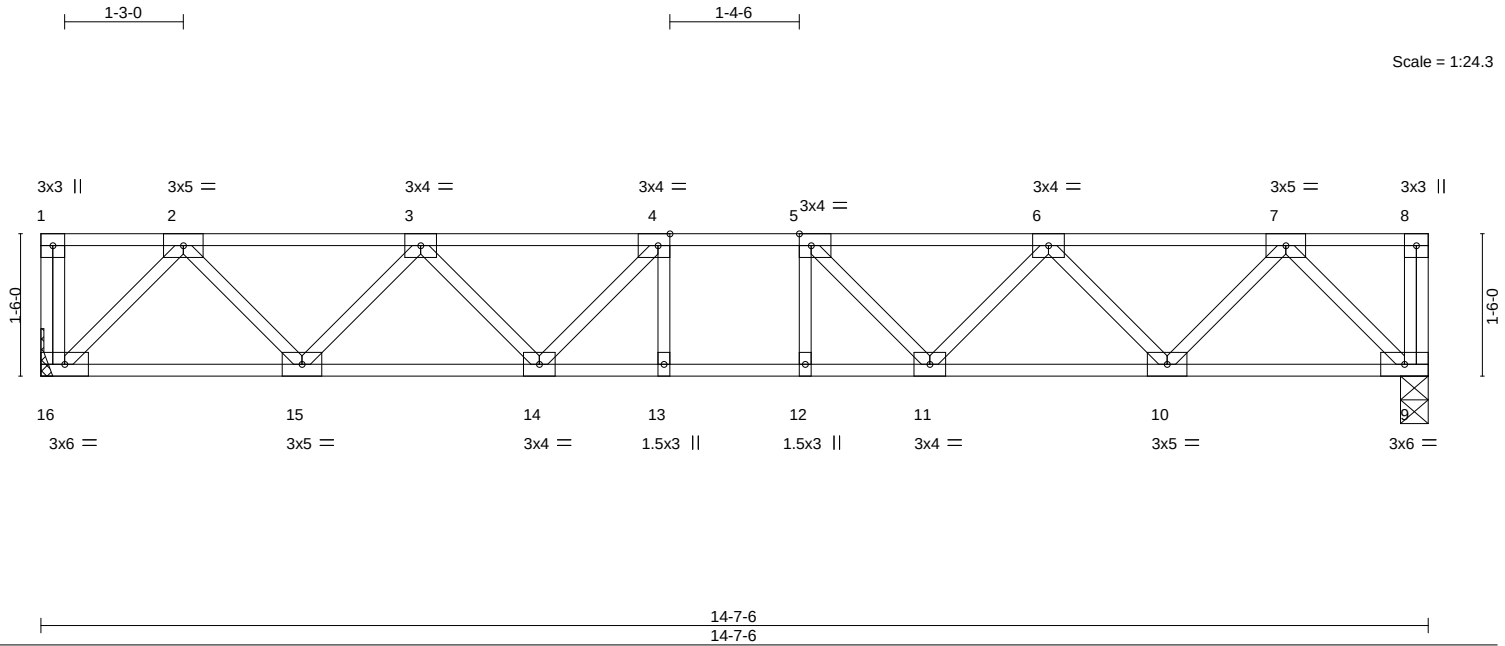

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=934(LC 1), 9=934(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1433/0, 3-4=-2205/0, 4-5=-2437/0, 5-6=-2205/0, 6-7=-1433/0
BOT CHORD 15-16=0/872, 14-15=0/1967, 13-14=0/2437, 12-13=0/2437, 11-12=0/2437, 10-11=0/1967, 9-10=0/872
WEBS 7-9=-1233/0, 2-16=-1233/0, 7-10=0/834, 2-15=0/834, 6-10=-795/0, 3-15=-795/0, 6-11=0/403, 3-14=0/403, 5-11=-469/0, 4-14=-469/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F8G	FLOOR GIRDER	1	1	I50651333
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:27 2022 Page 1
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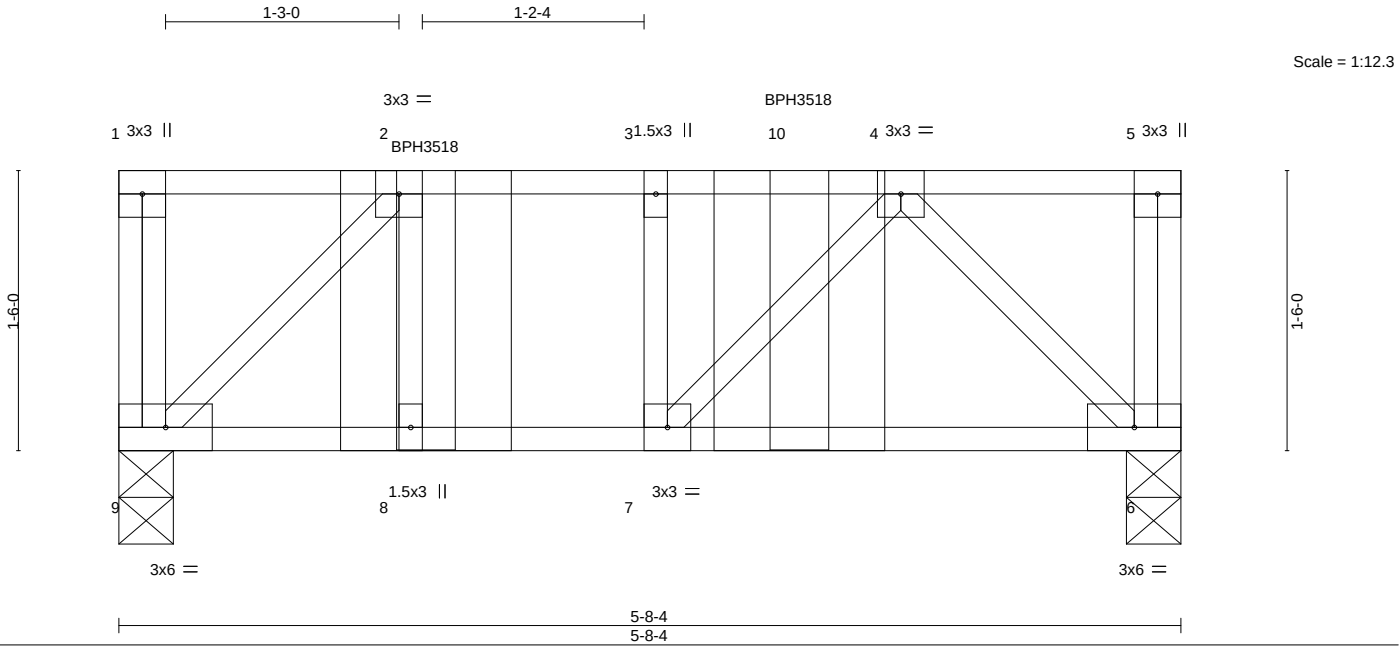

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=883(LC 1), 6=797(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-912/0, 3-4=-912/0
BOT CHORD	8-9=0/912, 7-8=0/912, 6-7=0/750
WEBS	4-6=-1060/0, 2-9=-1262/0, 4-7=0/270

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-12 from the left end to 3-7-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 6-9=-10, 1-5=-120
   Concentrated Loads (lb)
   Vert: 2=-487(B) 10=-487(B)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F9	Floor	9	1	I50651334
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:28 2022 Page 1
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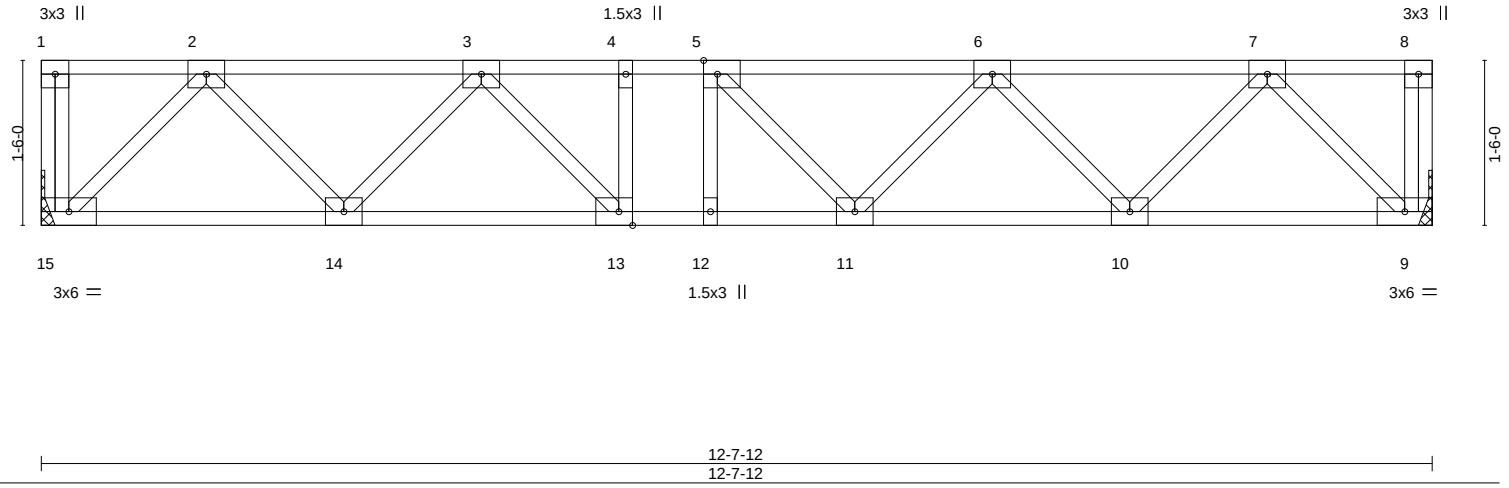

12-7-12
12-7-12

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.06	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 72 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=Mechanical
Max Grav 15=806(LC 1), 9=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1179/0, 3-4=-1802/0, 4-5=-1802/0, 5-6=-1730/0, 6-7=-1189/0
BOT CHORD 14-15=0/748, 13-14=0/1595, 12-13=0/1802, 11-12=0/1802, 10-11=0/1612, 9-10=0/743
WEBS 7-9=-1050/0, 2-15=-1058/0, 7-10=0/664, 2-14=0/640, 6-10=-630/0, 3-14=-619/0, 3-13=0/418

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F9G	FLOOR GIRDER	2	1	I50651335
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:29 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-xbsTH2753pSOte2s7mkAwLeeRhBHUadkbF2Atwzd01G

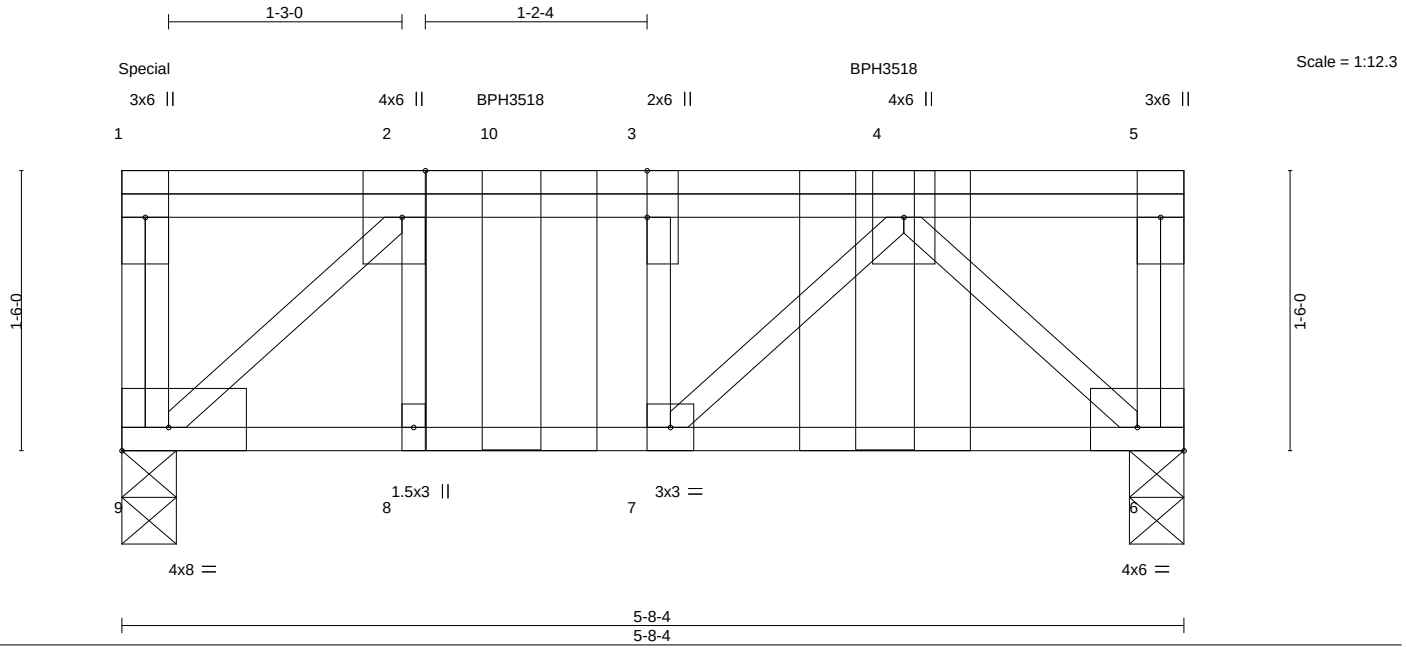

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [6:Edge,0-1-8], [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.06	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=2381(LC 1), 6=1504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-985/0, 2-3=-1560/0, 3-4=-1560/0
BOT CHORD 8-9=0/1560, 7-8=0/1560, 6-7=0/1473
WEBS 4-6=-2036/0, 2-9=-2112/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-1 from the left end to 4-1-1 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1140 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-1101(F) 4=-1039(F) 10=-1039(F)

March 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

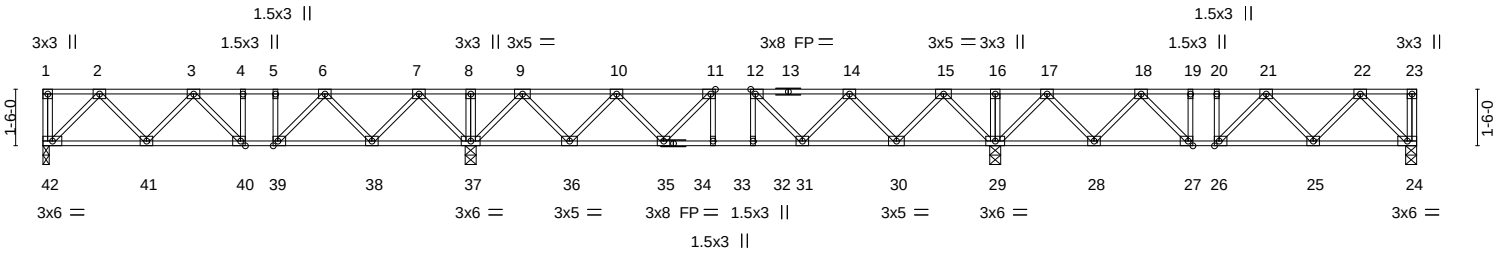
Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F10	Floor	12	1	I50651336
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:51 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-okxQjXxd8i6I7aZ0OBzByhavpBp5XHyJ30J_Qczd02o

1-3-0 0-8-14 0-11-4 0-6-14

Scale = 1:61.2



11-4-6 25-3-10 36-6-0
11-4-6 13-11-4 11-2-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=617(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/0, 3-4=-1073/0, 4-5=-1073/0, 5-6=-1073/0, 6-7=-404/434, 7-8=0/1402, 8-9=0/1402, 9-10=-287/290, 10-11=-1007/12, 11-12=-1207/0, 12-14=-1000/12, 14-15=-269/291, 15-16=0/1426, 16-17=0/1426, 17-18=-385/459, 18-19=-1030/0, 19-20=-1030/0, 20-21=-1030/0, 21-22=-828/0
BOT CHORD 41-42=0/574, 40-41=0/1096, 39-40=0/1073, 38-39=-182/842, 37-38=-696/0, 36-37=-548/0, 35-36=-101/796, 33-35=0/1207, 32-33=0/1207, 31-32=0/1207, 30-31=-102/783, 29-30=-564/0, 28-29=-723/0, 27-28=-207/815, 26-27=-0/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-812/0, 7-37=-1175/0, 2-41=0/415, 7-38=0/764, 3-41=-361/7, 6-38=-756/0, 3-40=-281/0, 6-39=0/547, 5-39=-267/0, 15-29=-1228/0, 9-37=-1221/0, 15-30=0/843, 9-36=0/836, 14-30=-812/0, 10-36=-805/0, 14-31=0/375, 10-35=0/368, 12-31=-370/0, 11-35=-361/0, 22-24=-794/0, 17-29=-1168/0, 22-25=0/397, 17-28=0/759, 21-25=-346/19, 18-28=-747/0, 21-26=-292/0, 18-27=0/524, 19-27=-252/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F10G	FLOOR GIRDER	1	1	I50651337
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:53 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-l73A7DytgJM0MujPVc0f16fEf?Ru?9UcWKo5VUzd02m

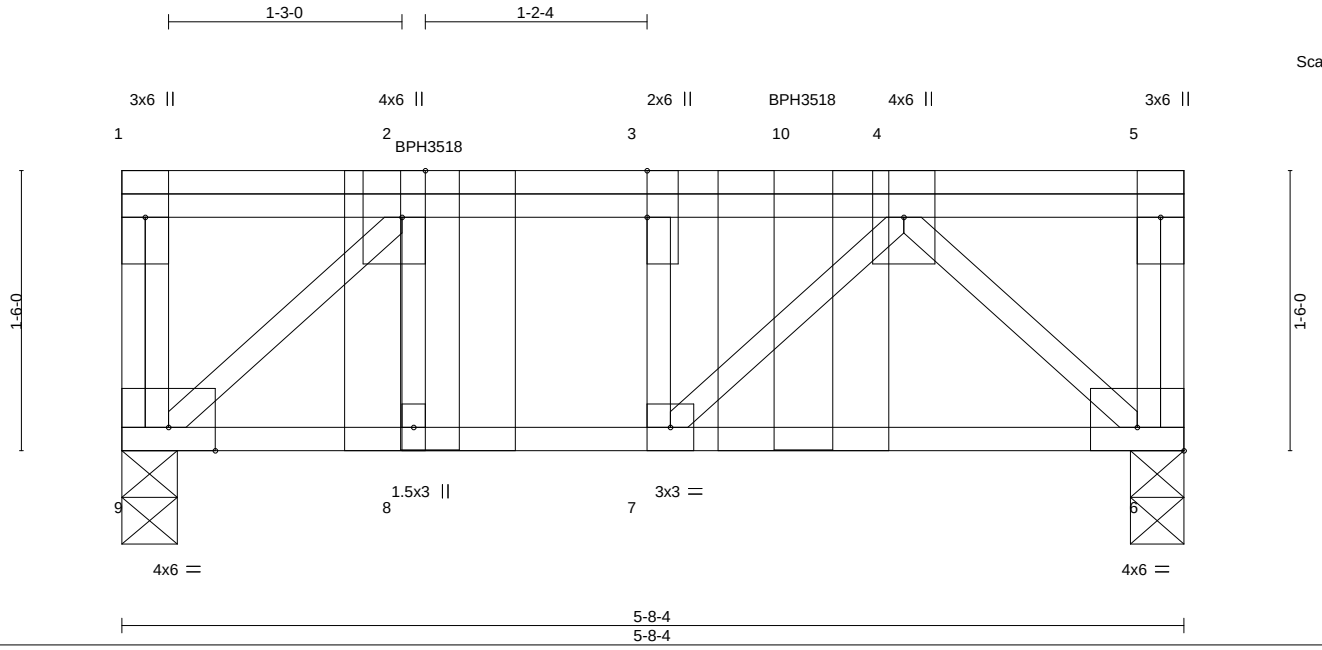

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [6:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.05	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-9, 6=0-3-7
Max Grav 9=1492(LC 1), 6=1309(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1635/0, 3-4=-1635/0
BOT CHORD 8-9=0/1635, 7-8=0/1635, 6-7=0/1364
WEBS 4-6=-1886/0, 2-9=-2214/0, 4-7=0/421, 3-7=-311/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-13 from the left end to 3-7-13 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 2=-1047(F) 10=-1047(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

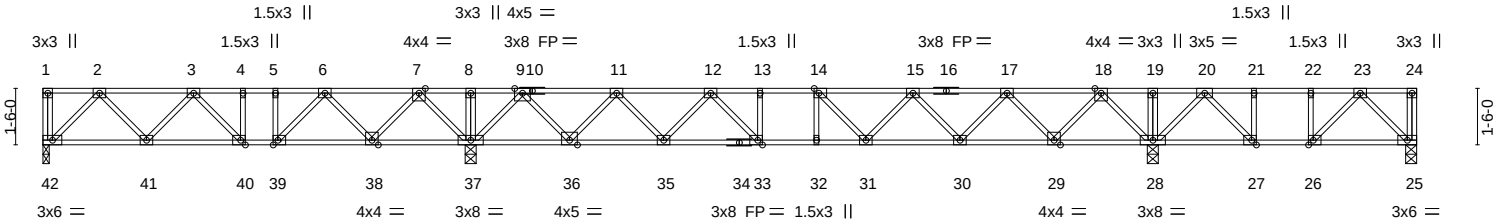
Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F11	Floor	2	1	I50651338
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:56 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-9ilJmF?mzEkaDMR_BkZNfkHibCQ9CV82DH0l5pzd02j

1-3-0 0-8-14 1-4-8 1-4-10

Scale = 1:61.2



11-4-6 29-5-14 36-6-0
11-4-6 18-1-8 7-0-2

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	31-32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	31-32	>950	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
25-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 25
Max Grav All reactions 250 lb or less at joint(s) except 42=597(LC 5), 25=346(LC 5), 37=2234(LC 16), 28=1856(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-792/2, 3-4=-940/320, 4-5=-940/320, 5-6=-940/320, 6-7=-199/974, 7-8=0/2069, 8-9=0/2069, 9-11=-186/271, 11-12=-1466/0, 12-13=-2299/0, 13-14=-2299/0, 14-15=-2256/0, 15-17=-1703/0, 17-18=-588/0, 18-19=0/1361, 19-20=0/1361, 20-21=-296/424, 21-22=-296/424, 22-23=-296/424
BOT CHORD 41-42=0/542, 40-41=-89/1004, 39-40=-320/940, 38-39=-640/668, 37-38=-1310/0, 36-37=-901/0, 35-36=0/974, 33-35=0/1961, 32-33=0/2299, 31-32=0/2299, 30-31=0/2133, 29-30=0/1274, 28-29=-314/0, 27-28=-882/0, 26-27=-424/296, 25-26=-125/264
WEBS 2-42=-766/0, 7-37=-1287/0, 2-41=-60/372, 7-38=0/869, 3-41=-315/129, 6-38=-874/0, 3-40=-442/0, 6-39=0/708, 5-39=-342/0, 18-28=-1509/0, 9-37=-1651/0, 18-29=0/1119, 9-36=0/1252, 17-29=-1069/0, 11-36=-1212/0, 17-30=0/663, 11-35=0/769, 15-30=-643/0, 12-35=-783/0, 12-33=0/679, 13-33=-290/0, 23-25=-374/177, 20-28=-877/0, 23-26=-433/46, 20-27=0/840, 21-27=-446/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F11G	FLOOR GIRDER	1	1	I50651339
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:26:58 2022 Page 1
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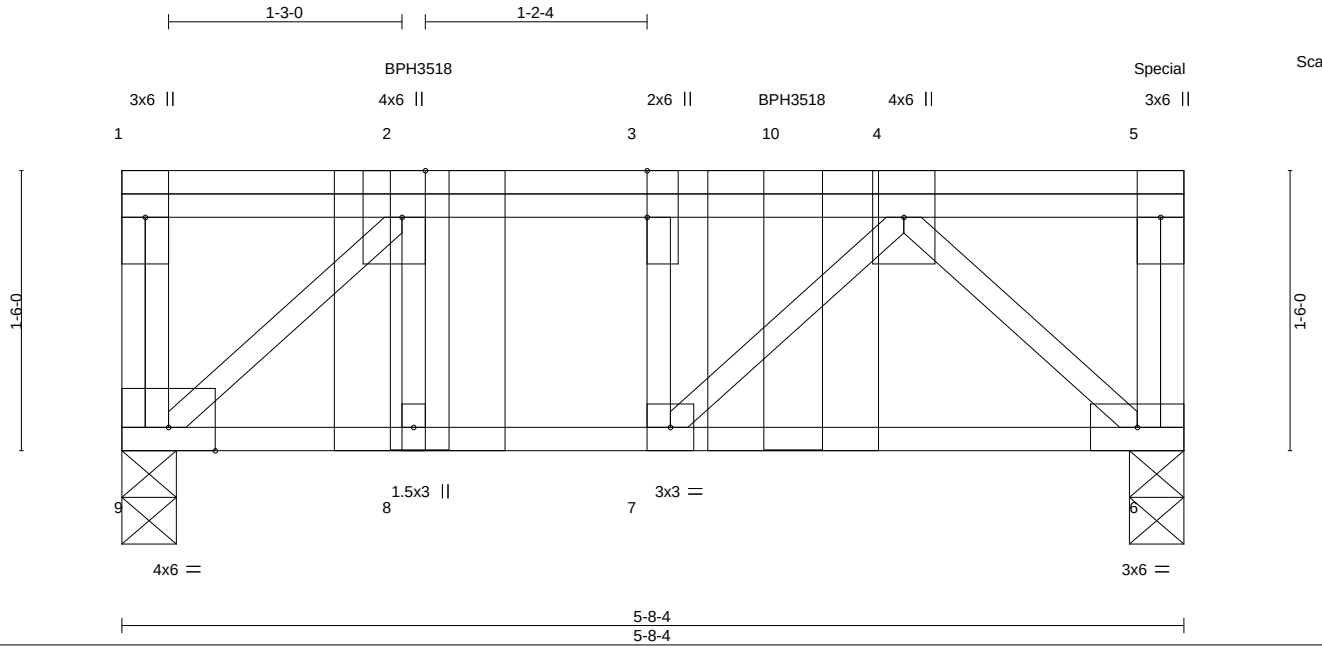

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=1322(LC 1), 6=2094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-939/0, 2-3=-1447/0, 3-4=-1447/0
BOT CHORD 8-9=0/1447, 7-8=0/1447, 6-7=0/1190
WEBS 4-6=-1645/0, 2-9=-1959/0, 4-7=0/404, 3-7=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent at 1-7-2 from the left end to connect truss(es) to front face of top chord.
6) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 3-7-2 from the left end to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 983 lb down at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 5=-944(F) 2=-883(F) 10=-883(F)

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

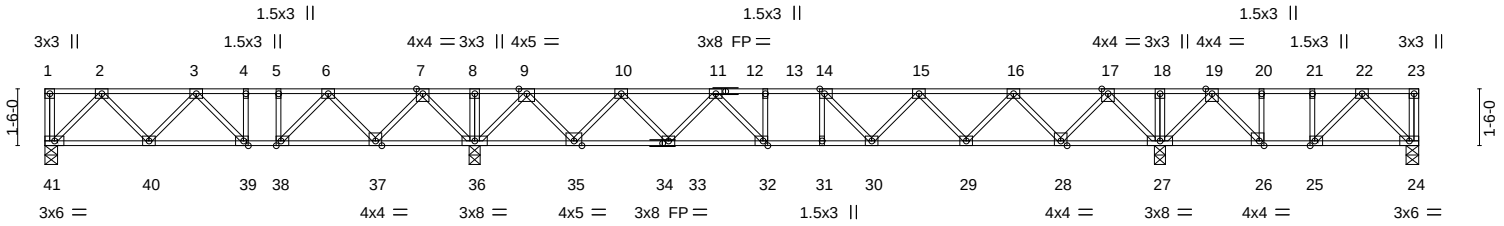
Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F12	Floor	8	1	I50651340
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:00 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-2T_pbc2G1TE0izlIQaeJqaSNqpnW8IGd8v_yEazd02f

1-3-0 0-8-14 1-4-8 1-2-10

Scale = 1:60.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-4-6 29-5-14 36-4-0
11-4-6 18-1-8 6-10-2

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.22	30-31	>989	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 36=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-117(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=598(LC 5), 24=324(LC 5), 36=2219(LC 16), 27=1886(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-794/0, 3-4=-944/305, 4-5=-944/305, 5-6=-944/305, 6-7=-206/951, 7-8=0/2040, 8-9=0/2040, 9-10=-195/269, 10-11=-1456/0, 11-13=-2263/0, 13-14=-2263/0, 14-15=-2203/0, 15-16=-1630/0, 16-17=-488/0, 17-18=0/1460, 18-19=0/1460, 19-20=-252/489, 20-21=-252/489, 21-22=-252/489
BOT CHORD 40-41=0/543, 39-40=-79/1007, 38-39=-305/944, 37-38=-620/674, 36-37=-1284/0, 35-36=-883/0, 33-35=0/973, 32-33=0/1941, 31-32=0/2263, 30-31=0/2263, 29-30=0/2069, 28-29=0/1185, 27-28=-404/0, 26-27=-971/0, 25-26=-489/252
WEBS 2-41=-768/0, 7-36=-1283/0, 2-40=-55/374, 7-37=0/865, 3-40=-316/124, 6-37=-869/0, 3-39=-435/0, 6-38=0/701, 5-38=-339/0, 17-27=-1524/0, 9-36=-1635/0, 17-28=0/1134, 9-35=0/1236, 16-28=-1085/0, 10-35=-1197/0, 16-29=0/677, 10-33=0/755, 15-29=-657/0, 11-33=-767/0, 15-30=0/253, 11-32=0/659, 13-32=-280/0, 22-24=-344/223, 19-27=-904/0, 22-25=-480/13, 19-26=0/860, 20-26=-452/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F12G	FLOOR GIRDER	1	1	I50651341
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:01 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-WfYBpy3uonNtK7KxzH9YMn_cmDAttounMZkWn1zd02e

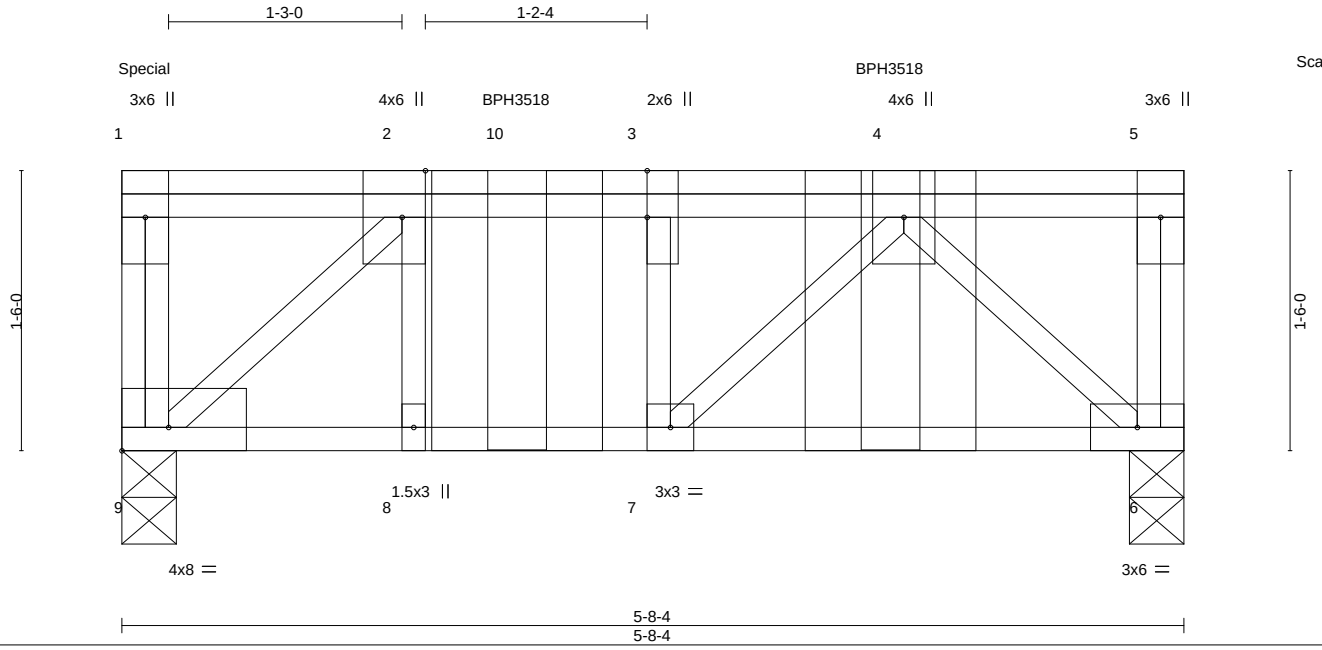

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,0-0-0], [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.04	6-7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.05	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 6=0-3-8
Max Grav 9=2060(LC 1), 6=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-850/0, 2-3=-1355/0, 3-4=-1355/0
BOT CHORD 8-9=0/1355, 7-8=0/1355, 6-7=0/1277
WEBS 4-6=-1765/0, 2-9=-1834/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-6 from the left end to 4-1-6 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 983 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-943(B) 4=-862(B) 10=-862(B)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F13	Floor	8	1	I50651342
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:04 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-wEEKR_5n4ilSBa3WfPiF_Qc1RR9h45VD2XyANLzd02b

1-3-0 0-6-14 0-3-8 1-2-10

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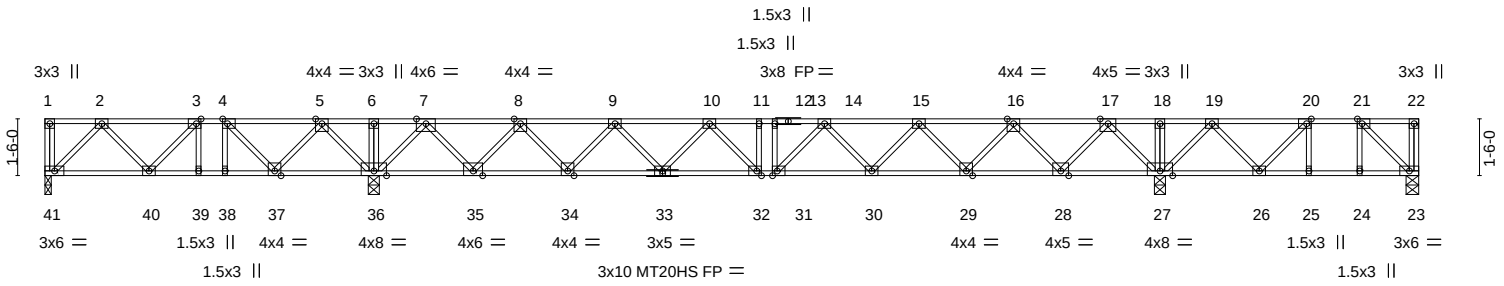

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

	8-8-6	29-5-14	36-4-0
	8-8-6	20-9-8	6-10-2

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.19	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.29	30-31	>860	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-0, 23=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-219(LC 6), 23=-219(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 23 except 41=375(LC 5), 36=2431(LC 3), 27=2200(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/552, 3-4=-331/1005, 4-5=0/1595, 5-6=0/2816, 6-7=0/2816, 7-8=0/521, 8-9=-1272/0, 9-10=-2309/0, 10-11=-2805/0, 11-12=-2805/0, 12-14=-2805/0, 14-15=-2527/0, 15-16=-1681/0, 16-17=-242/285, 17-18=0/2136, 18-19=0/2136, 19-20=0/959, 20-21=-132/418
BOT CHORD 40-41=-224/330, 39-40=-1005/331, 38-39=-1005/331, 37-38=-1005/331, 36-37=-2093/0, 35-36=-1485/0, 34-35=0/603, 33-34=0/1929, 32-33=0/2668, 31-32=0/2805, 30-31=0/2786, 29-30=0/2243, 28-29=0/1097, 27-28=-909/0, 26-27=-1384/0, 25-26=-418/132, 24-25=-418/132, 23-24=-418/132
WEBS 2-41=-467/317, 2-40=-488/44, 3-40=0/655, 3-39=-432/0, 5-36=-1292/0, 5-37=0/946, 4-37=-1074/0, 4-38=0/446, 7-36=-1882/0, 7-35=0/1470, 8-35=-1446/0, 8-34=0/1030, 9-34=-994/0, 9-33=0/579, 10-33=-550/0, 10-32=-133/398, 17-27=-1747/0, 17-28=0/1342, 16-28=-1316/0, 16-29=0/900, 15-29=-865/0, 15-30=0/453, 14-30=-417/0, 14-31=-210/320, 19-27=-1100/0, 19-26=0/771, 20-26=-895/0, 20-25=0/290, 21-23=-182/579

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 41 and 219 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F14	Posi Strut Floor Girder	1	1	I50651343
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:05 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-OQnifJ6Pr?tJokdjC7DUXd9ICqYZpd9NHBijwozd02a

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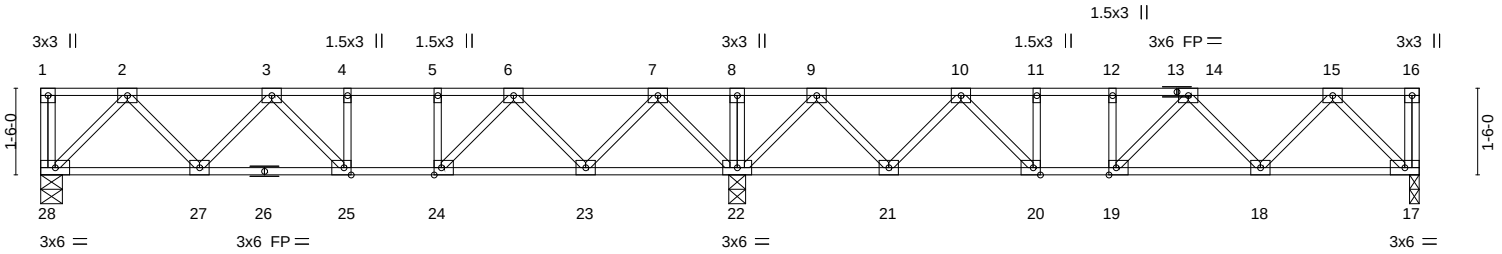

12-0-12 23-10-8
12-0-12 11-9-12

Plate Offsets (X,Y)-- [19:0-1-8,Edge], [20:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.06	25-27	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.10	25-27	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 132 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-28,16-17: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22.

REACTIONS. (size) 28=0-4-8, 17=0-2-0, 22=0-3-8
Max Grav 28=693(LC 3), 17=677(LC 4), 22=1774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-975/0, 3-4=-1305/0, 4-5=-1305/0, 5-6=-1305/0, 6-7=-558/115, 7-8=0/1050, 8-9=0/1050, 9-10=-547/138, 10-11=-1250/0, 11-12=-1250/0, 12-14=-1250/0, 14-15=-945/0
BOT CHORD 27-28=0/638, 25-27=0/1272, 24-25=0/1305, 23-24=0/1023, 22-23=-343/87, 21-22=-365/90, 20-21=0/996, 19-20=0/1250, 18-19=0/1229, 17-18=0/622
WEBS 2-28=-902/0, 2-27=0/501, 3-27=-441/0, 7-22=-1164/0, 7-23=0/745, 6-23=-744/0, 6-24=0/569, 5-24=-296/0, 9-22=-1152/0, 9-21=0/735, 10-21=-731/0, 10-20=0/538, 11-20=-275/0, 15-17=-880/0, 15-18=0/479, 14-18=-423/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

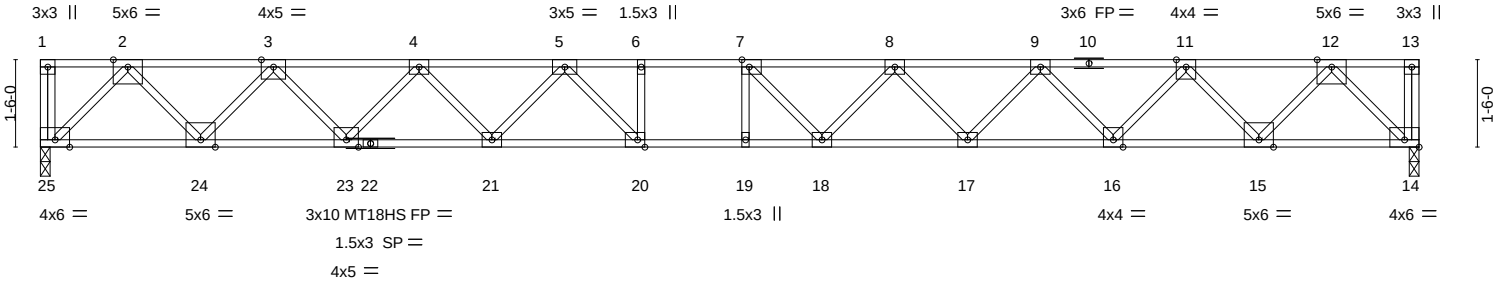
Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F15	Floor	2	1	I50651344
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:06 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-sdL4sf61cJ?AQuCvmqlj3riSQEotYztWWrRHSEzd02Z

1-3-0 1-8-0

Scale = 1:39.6



23-8-0
23-8-0

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [14:Edge,0-1-8], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.44	19	>645	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.71	18-19	>398	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 25=0-2-0, 14=0-2-0
Max Grav 25=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2549/0, 3-4=-4404/0, 4-5=-5642/0, 5-6=-6432/0, 6-7=-6432/0, 7-8=-6316/0, 8-9=-5660/0, 9-11=-4400/0, 11-12=-2550/0
BOT CHORD 24-25=0/1460, 23-24=0/3614, 21-23=0/5165, 20-21=0/6119, 19-20=0/6432, 18-19=0/6432, 17-18=0/6140, 16-17=0/5161, 15-16=0/3616, 14-15=0/1460
WEBS 12-14=-2064/0, 2-25=-2065/0, 12-15=0/1621, 2-24=0/1620, 11-15=-1584/0, 3-24=-1583/0, 11-16=0/1165, 3-23=0/1173, 9-16=-1132/0, 4-23=-1132/0, 9-17=0/741, 4-21=0/708, 8-17=-713/0, 5-21=-713/0, 8-18=-13/485, 5-20=-60/816, 7-18=-561/234, 6-20=-372/0, 7-19=-255/142

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F16	Floor	10	1	I50651345
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:07 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-KpvT3?7fNd7122n5KYGyc2Edfe8EHQAflVBq_gzd02Y

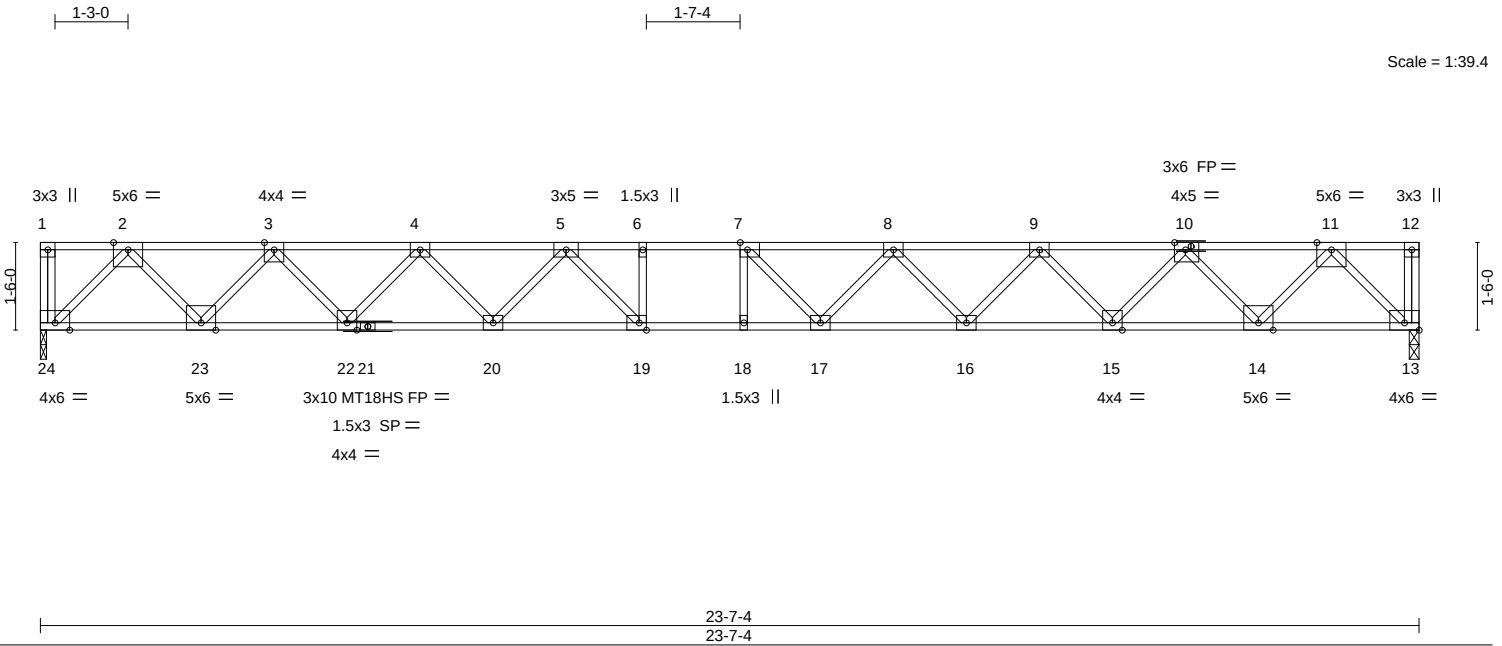

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.43	18	>659	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.69	17-18	>406	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=0-1-8, 13=0-2-0
Max Grav 24=1518(LC 1), 13=1518(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2542/0, 3-4=-4388/0, 4-5=-5620/0, 5-6=-6399/0, 6-7=-6399/0, 7-8=-6286/0, 8-9=-5636/0, 9-10=-4385/0, 10-11=-2542/0
BOT CHORD 23-24=0/1456, 22-23=0/3603, 20-22=0/5147, 19-20=0/6093, 18-19=0/6399, 17-18=0/6399, 16-17=0/6114, 15-16=0/5141, 14-15=0/3605, 13-14=0/1455
WEBS 11-13=-2058/0, 2-24=-2059/0, 11-14=0/1616, 2-23=0/1614, 10-14=-1580/0, 3-23=-1578/0, 10-15=0/1159, 3-22=0/1168, 9-15=-1124/0, 4-22=-1127/0, 9-16=0/736, 4-20=0/703, 8-16=-710/0, 5-20=-706/0, 8-17=-18/478, 5-19=-65/802, 7-17=-551/234, 6-19=-363/0, 7-18=-254/139

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24, 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F17	Floor	3	1	I50651346
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:08 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-p?TrHL8H8wFufCMHuFnB8Gnui2bb0?4pz9wNX7zd02X

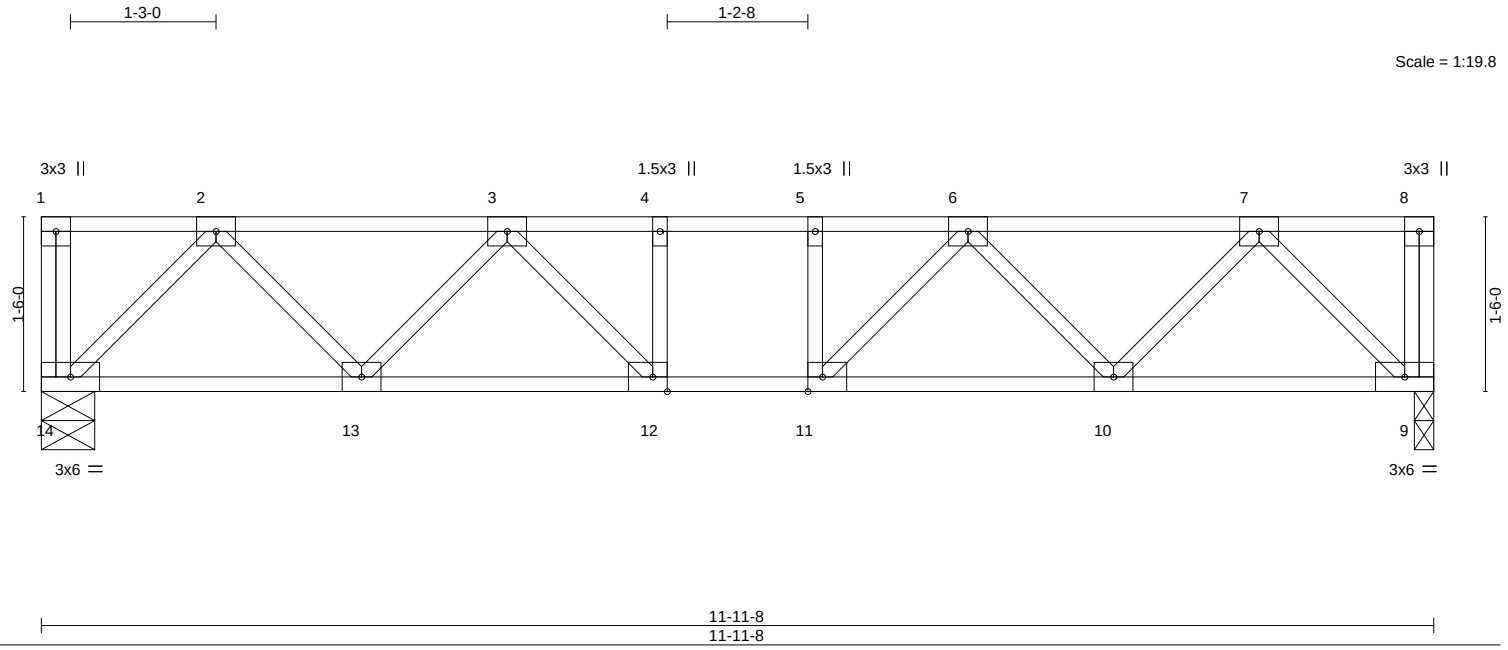

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 9=0-2-0
Max Grav 14=761(LC 1), 9=761(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/0, 3-4=-1604/0, 4-5=-1604/0, 5-6=-1604/0, 6-7=-1099/0
BOT CHORD 13-14=0/705, 12-13=0/1465, 11-12=0/1604, 10-11=0/1465, 9-10=0/705
WEBS 7-9=-997/0, 2-14=-997/0, 7-10=0/585, 2-13=0/585, 6-10=-545/0, 3-13=-545/0, 6-11=0/354, 3-12=0/354

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F18	Floor	24	1	I50651347
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:09 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-HC1DUh9vvENkHMxURzIQhTKzBSqmlKgyCpgx3Zzd02W

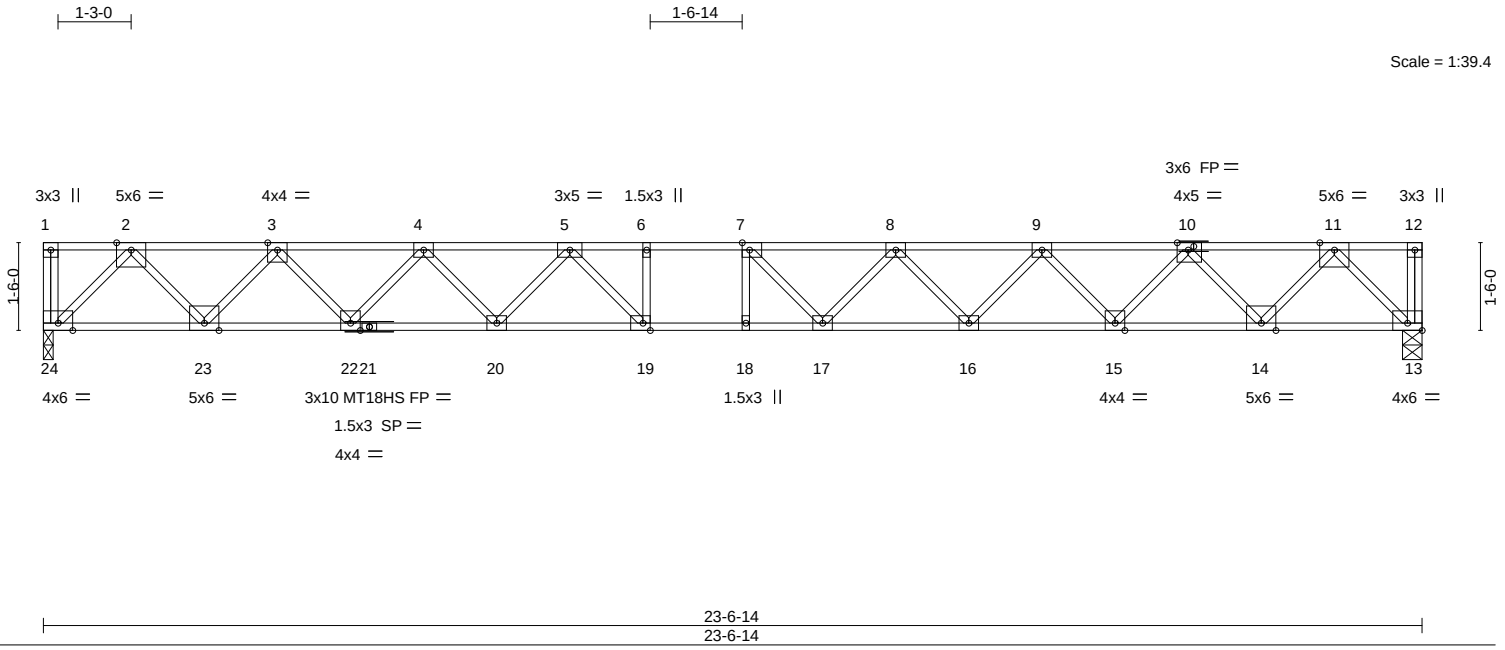

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.42	18	>662	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.69	17-18	>408	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=0-2-0, 13=0-4-0
Max Grav 24=1516(LC 1), 13=1516(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2538/0, 3-4=-4381/0, 4-5=-5609/0, 5-6=-6382/0, 6-7=-6382/0, 7-8=-6271/0, 8-9=-5625/0, 9-10=-4377/0, 10-11=-2538/0
BOT CHORD 23-24=0/1454, 22-23=0/3597, 20-22=0/5137, 19-20=0/6079, 18-19=0/6382, 17-18=0/6382, 16-17=0/6101, 15-16=0/5131, 14-15=0/3600, 13-14=0/1453
WEBS 11-13=-2055/0, 2-24=-2056/0, 11-14=0/1613, 2-23=0/1611, 10-14=-1577/0, 3-23=-1575/0, 10-15=0/1156, 3-22=0/1165, 9-15=-1121/0, 4-22=-1124/0, 9-16=0/734, 4-20=0/701, 8-16=-707/0, 5-20=-703/0, 8-17=-21/475, 5-19=-67/795, 7-17=-546/234, 6-19=-358/0, 7-18=-253/138

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F19	Floor	12	1	I50651348
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:10 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-lObbi1AYgYVbvVWg?gpfEhsEBrHEUvc6RTPUb?zd02V

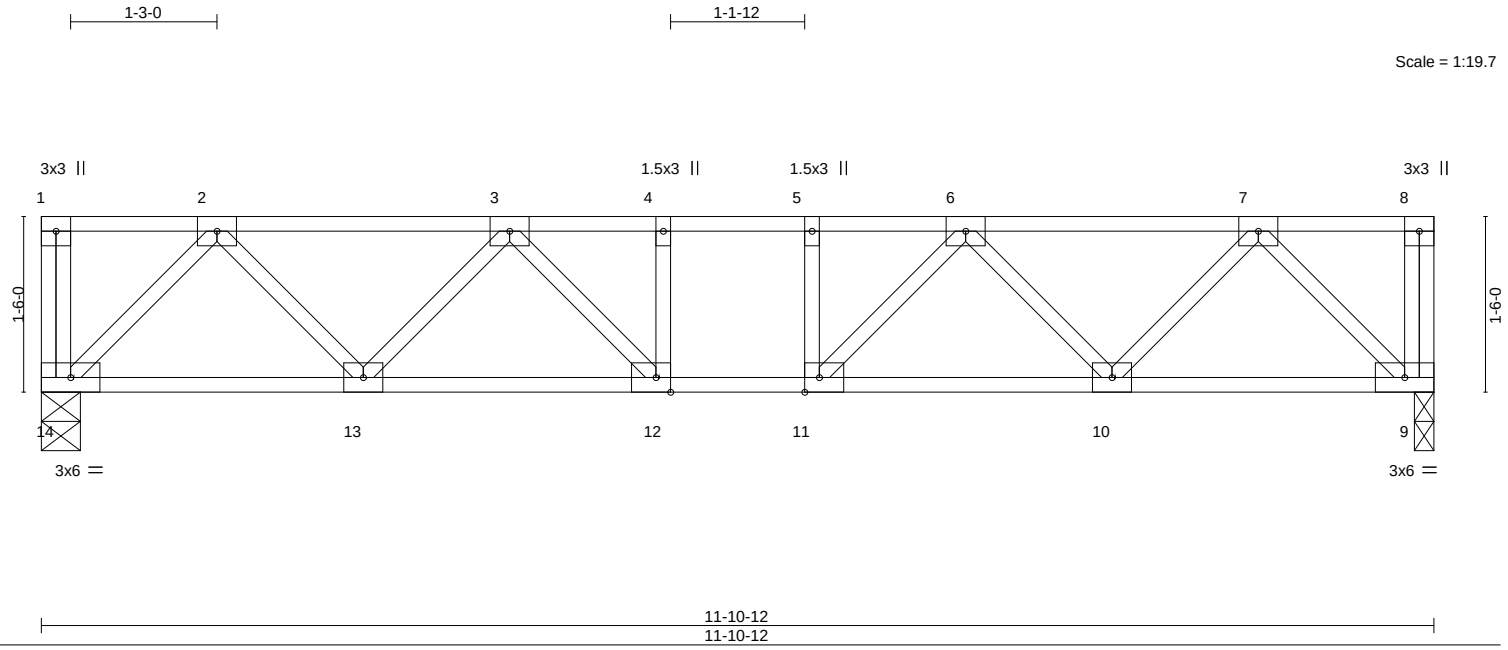

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 7-9=-991/0, 2-14=-991/0, 7-10=0/580, 2-13=0/580, 6-10=-540/0, 3-13=-540/0, 6-11=0/345, 3-12=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F20	Floor	12	1	I50651349
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:13 2022 Page 1
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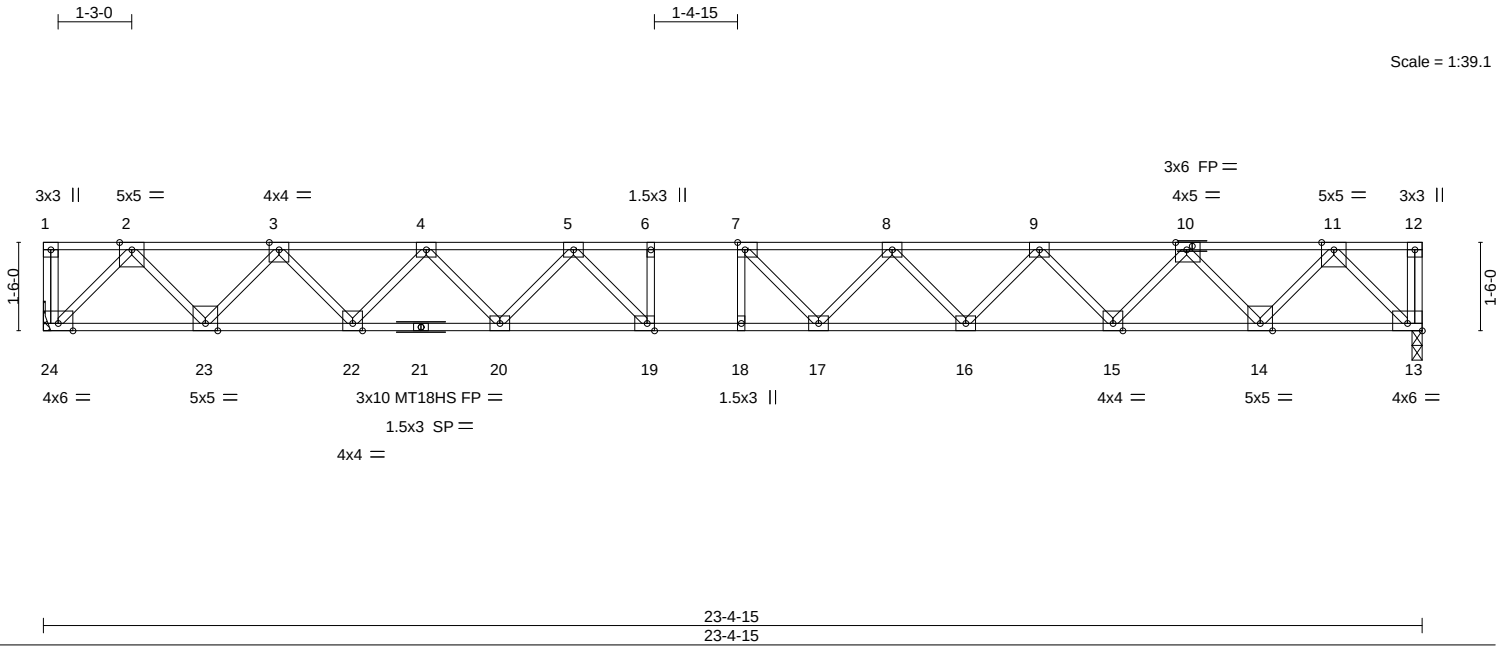

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.41	17-18	>676	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.67	17-18	>417	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=Mechanical, 13=0-2-1
Max Grav 24=1505(LC 1), 13=1505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2518/0, 3-4=-4342/0, 4-5=-5551/0, 5-6=-6298/0, 6-7=-6298/0, 7-8=-6194/0, 8-9=-5567/0, 9-10=-4338/0, 10-11=-2518/0
BOT CHORD	23-24=0/1443, 22-23=0/3568, 20-22=0/5088, 19-20=0/6012, 18-19=0/6298, 17-18=0/6298, 16-17=0/6033, 15-16=0/5083, 14-15=0/3570, 13-14=0/1443
WEBS	11-13=-2040/0, 2-24=-2041/0, 11-14=0/1599, 2-23=0/1597, 10-14=-1563/0, 3-23=-1561/0, 10-15=0/1142, 3-22=0/1150, 9-15=-1107/0, 4-22=-1110/0, 9-16=0/719, 4-20=0/688, 8-16=-693/0, 5-20=-686/0, 8-17=-33/458, 5-19=-78/758, 7-17=-521/234, 6-19=-334/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F21	Floor	12	1	I50651350
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:14 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-d9q6XOD2km?1N7qREWubOX1rBTXPPc1hM5Nikmzd02R

1-3-0 1-4-14

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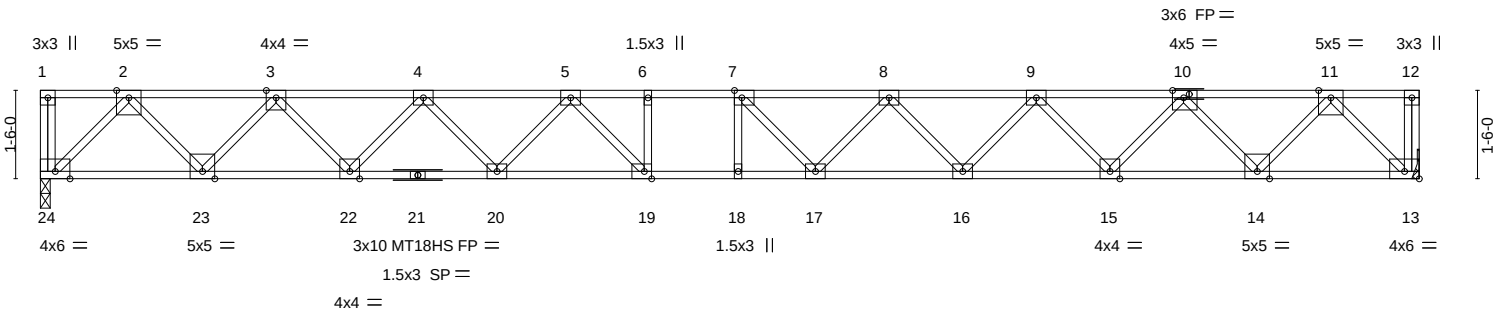

23-4-14
23-4-14

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [10:0-2-4,Edge], [13:Edge,0-1-8], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.41	17-18	>676	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.67	17-18	>417	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-22.

REACTIONS. (size) 24=0-2-0, 13=Mechanical
Max Grav 24=1505(LC 1), 13=1505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2517/0, 3-4=-4341/0, 4-5=-5549/0, 5-6=-6295/0, 6-7=-6295/0, 7-8=-6191/0, 8-9=-5565/0, 9-10=-4337/0, 10-11=-2518/0
BOT CHORD 23-24=0/1443, 22-23=0/3567, 20-22=0/5087, 19-20=0/6010, 18-19=0/6295, 17-18=0/6295, 16-17=0/6031, 15-16=0/5081, 14-15=0/3569, 13-14=0/1442
WEBS 11-13=-2040/0, 2-24=-2041/0, 11-14=0/1599, 2-23=0/1597, 10-14=-1563/0, 3-23=-1561/0, 10-15=0/1142, 3-22=0/1150, 9-15=-1107/0, 4-22=-1109/0, 9-16=0/719, 4-20=0/688, 8-16=-692/0, 5-20=-686/0, 8-17=-33/458, 5-19=-79/757, 7-17=-520/234, 6-19=-333/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F22	Floor	5	1	I50651351
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:16 2022 Page 1
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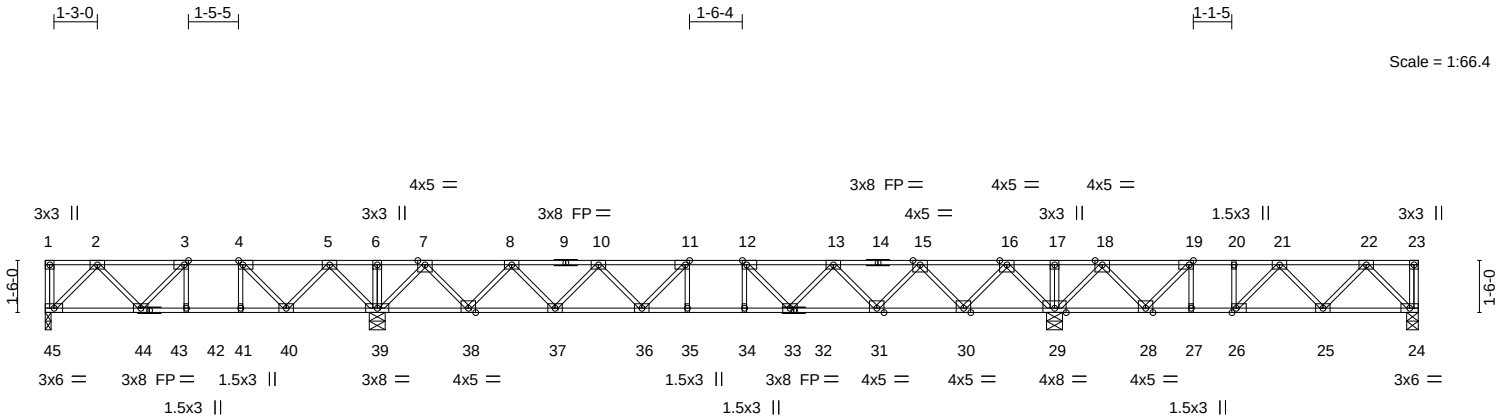

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.16	35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.25	35	>938	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 215 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 14-23: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 45=0-2-0, 24=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 45, 24
Max Grav All reactions 250 lb or less at joint(s) except 45=494(LC 5), 24=539(LC 5), 39=2141(LC 3), 29=2290(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-584/167, 3-4=-647/456, 4-5=-221/926, 5-6=0/1932, 6-7=0/1932, 7-8=-362/49, 8-10=-1678/0, 10-11=-2389/0, 11-12=-2595/0, 12-13=-2313/0, 13-15=-1482/0, 16-17=0/2236, 17-18=0/2236, 18-19=-176/1180, 19-20=-681/681, 20-21=-681/681, 21-22=-686/144

BOT CHORD 44-45=-14/454, 42-44=-456/647, 41-42=-456/647, 40-41=-456/647, 39-40=-1286/0, 38-39=-765/0, 37-38=0/1158, 36-37=0/2175, 35-36=0/2595, 34-35=0/2595, 33-34=0/2595, 31-33=0/2037, 30-31=0/901, 29-30=-1018/0, 28-29=-1588/0, 27-28=-681/681, 26-27=-681/681, 25-26=-313/840, 24-25=-40/484

WEBS 2-45=-641/20, 5-39=-1101/0, 5-40=0/783, 3-44=-91/419, 4-40=-949/0, 3-42=-314/0, 4-41=0/339, 16-29=-1733/0, 7-39=-1654/0, 16-30=0/1333, 7-38=0/1252, 15-30=-1310/0, 8-38=-1228/0, 15-31=0/892, 8-37=0/815, 13-31=-852/0, 10-37=-780/0, 13-33=0/459, 10-36=0/394, 12-33=-549/0, 11-36=-453/0, 22-24=-684/56, 18-29=-1218/0, 22-25=-155/301, 18-28=0/919, 21-25=-229/251, 19-28=-1064/0, 21-26=-639/0, 19-27=0/310

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 45.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 45, 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F23	Floor	2	1	I50651352
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:19 2022 Page 1
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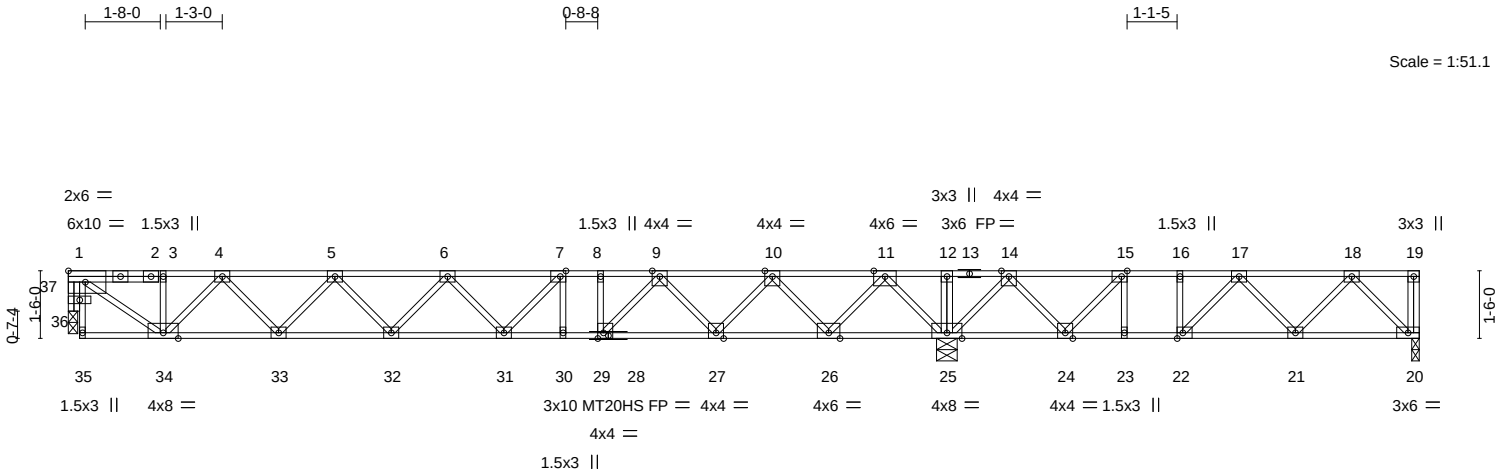

19-6-0 | 29-11-13
19-6-0 | 10-5-13

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [15:0-1-8,Edge], [22:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.20	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.32	30-31	>727	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03	25	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 13-19: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 20-28: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-34: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 25=0-5-8, 37=0-2-8
Max Uplift 20=-39(LC 3)
Max Grav 20=524(LC 4), 25=2428(LC 1), 37=1077(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1390/0, 3-4=-1387/0, 4-5=-2612/0, 5-6=-3251/0, 6-7=-3283/0, 7-8=-2995/0, 8-9=-2995/0, 9-10=-1750/0, 10-11=-112/261, 11-12=0/2432, 12-14=0/2432, 14-15=-95/1307, 15-16=-620/777, 16-17=-620/777, 17-18=-659/186
BOT CHORD	33-34=0/2133, 32-33=0/3065, 31-32=0/3426, 30-31=0/2995, 29-30=0/2995, 27-29=0/2436, 26-27=0/1081, 25-26=-1086/0, 24-25=-1738/0, 23-24=-777/620, 22-23=-777/620, 21-22=-377/799, 20-21=-62/469
WEBS	1-34=0/1568, 4-34=-1081/0, 11-25=-1904/0, 4-33=0/713, 11-26=0/1503, 5-33=-674/0, 10-26=-1461/0, 5-32=0/275, 10-27=0/1014, 6-32=-261/0, 9-27=-1042/0, 6-31=-345/46, 9-29=0/934, 7-31=0/591, 7-30=-428/0, 8-29=-317/0, 18-20=-664/88, 14-25=-1246/0, 18-21=-183/283, 14-24=0/953, 17-21=-207/284, 15-24=-1108/0, 17-22=-690/0, 15-23=0/329, 16-22=0/272, 1-37=-1104/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20, 37.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F24	Floor	1	1	I50651353
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:20 2022 Page 1
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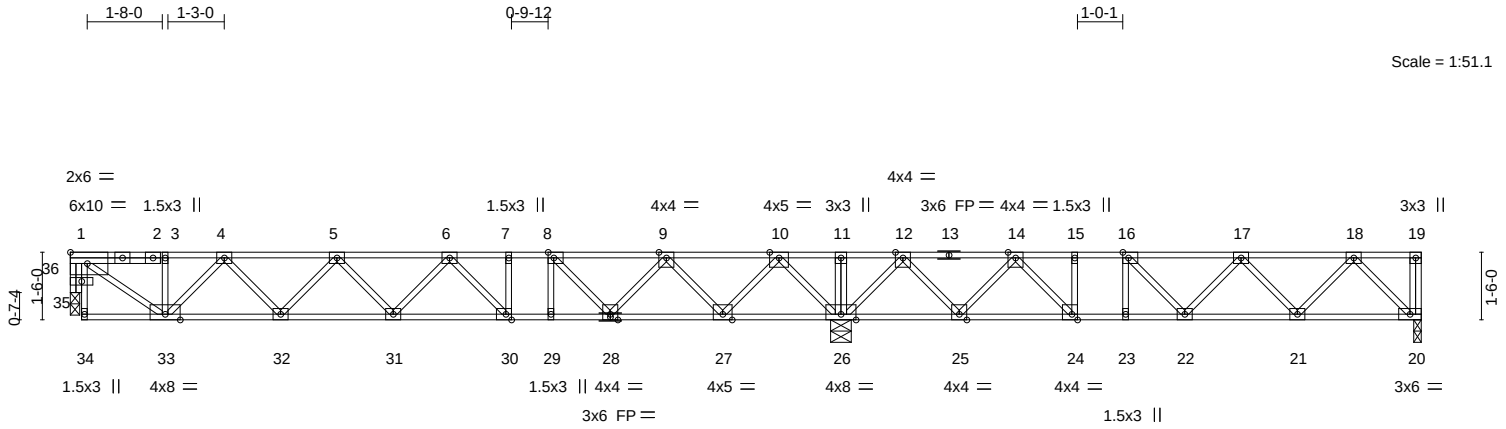

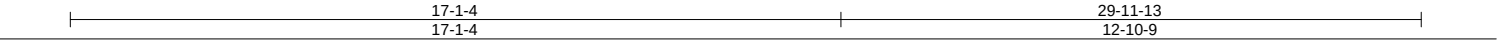

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [16:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.14	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.23	30-31	>877	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	20	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 20-28: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-33: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 26=0-5-8, 36=0-2-8
Max Grav 20=702(LC 4), 26=2330(LC 1), 36=939(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1196/0, 3-4=-1193/0, 4-5=-2157/0, 5-6=-2559/0, 6-7=-2244/0, 7-8=-2244/0, 8-9=-1619/0, 9-10=-272/316, 10-11=0/2087, 11-12=0/2087, 12-14=-280/926, 14-15=-1257/228, 15-16=-1257/228, 16-17=-1342/4, 17-18=-993/0
BOT CHORD	32-33=0/1803, 31-32=0/2499, 30-31=0/2561, 29-30=0/2244, 28-29=0/2244, 27-28=0/1077, 26-27=-889/0, 25-26=-1266/0, 24-25=-577/846, 23-24=-228/1257, 22-23=-228/1257, 21-22=0/1331, 20-21=0/636
WEBS	1-33=0/1345, 4-33=-883/0, 10-26=-1694/0, 4-32=0/527, 10-27=0/1272, 5-32=-508/0, 9-27=-1235/0, 9-28=0/849, 8-28=-964/0, 6-30=-638/0, 8-29=0/337, 18-20=-900/0, 12-26=-1383/0, 18-21=0/530, 12-25=0/951, 17-21=-503/0, 14-25=-991/0, 14-24=0/868, 16-22=0/430, 15-24=-354/0, 16-23=-318/0, 1-36=-963/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 36 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20, 36.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F25	Floor	3	1	I50651354
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:21 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-wVll?oIR4wu1jCsn8UWEA?p4aH?5YtYjzgaZUszd02K

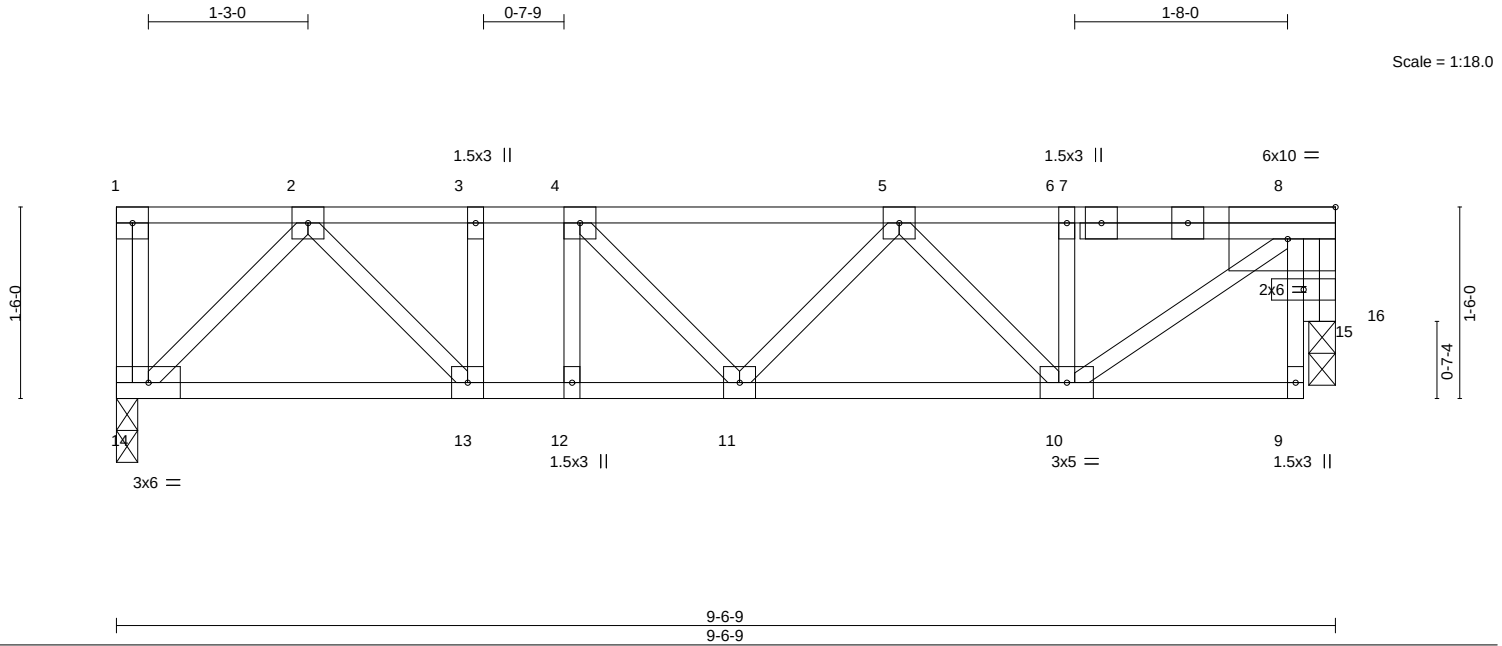

Plate Offsets (X,Y)-- [8:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.05	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 16=0-2-8
Max Grav 14=603(LC 1), 16=581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-911/0, 3-4=-911/0, 4-5=-982/0, 5-6=-677/0, 6-8=-680/0
BOT CHORD	13-14=0/530, 12-13=0/911, 11-12=0/911, 10-11=0/975
WEBS	8-10=0/748, 5-10=-432/0, 2-14=-750/0, 2-13=0/551, 8-16=-599/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F26	Floor	2	1	I50651355
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:23 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-sutWQTKhcX8lzV0AGvYiFQvLf5cP0k40Q_3gYlzd02I

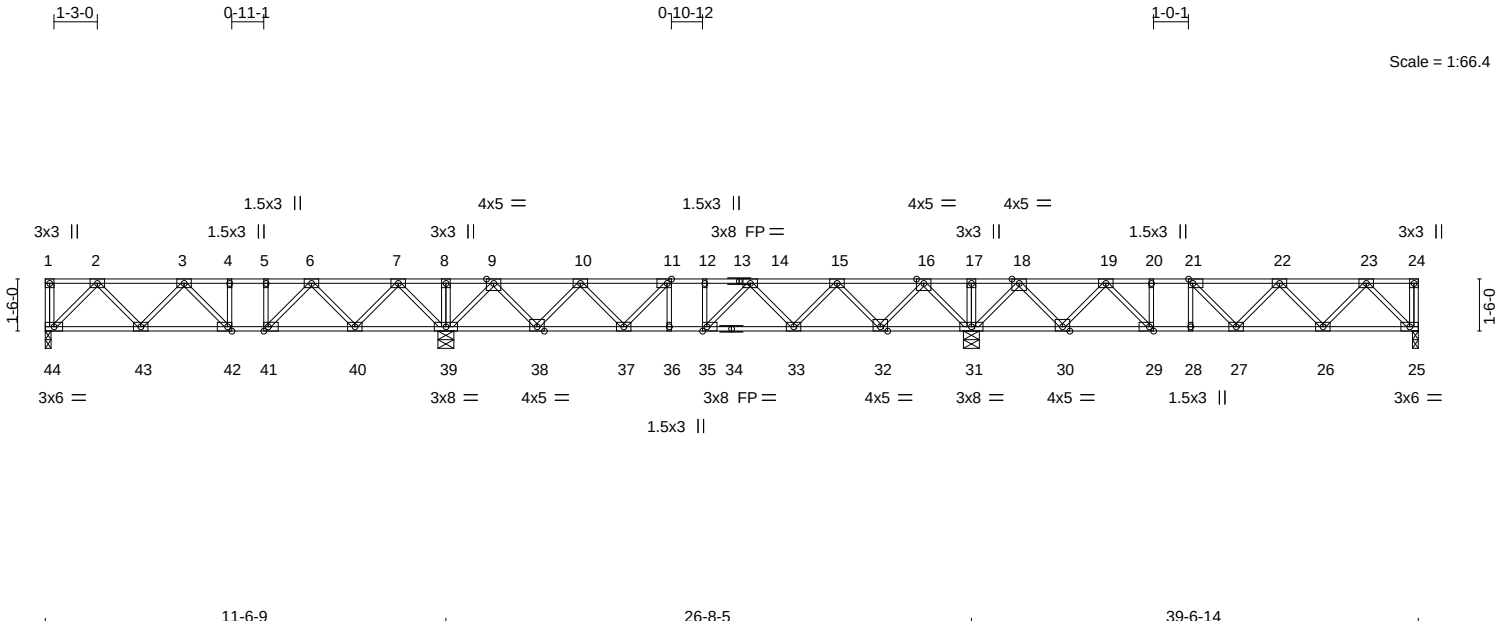

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [21:0-1-8,Edge], [29:0-1-8,Edge], [35:0-1-8,Edge], [41:0-1-8,Edge], [42:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.11	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	25	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 217 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 39=0-5-8, 31=0-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 44=640(LC 5), 25=726(LC 5), 39=1945(LC 3), 31=2036(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-874/0, 3-4=-1107/20, 4-5=-1107/20, 5-6=-1107/20, 6-7=-404/536, 7-8=0/1536, 8-9=0/1536, 9-10=-297/274, 10-11=-1161/0, 11-12=-1448/0, 12-14=-1448/0, 14-15=-1149/0, 15-16=-264/342, 16-17=0/1626, 17-18=0/1626, 18-19=-459/544, 19-20=-1380/0, 20-21=-1380/0, 21-22=-1433/0, 22-23=-1039/0
BOT CHORD 43-44=0/585, 42-43=0/1125, 41-42=-20/1107, 40-41=-264/855, 39-40=-813/0, 38-39=-598/0, 37-38=-66/874, 36-37=0/1448, 35-36=0/1448, 33-35=0/1419, 32-33=-116/850, 31-32=-677/0, 30-31=-839/0, 29-30=-246/1001, 28-29=0/1380, 27-28=0/1380, 26-27=0/1398, 25-26=0/661
WEBS 2-44=-827/0, 7-39=-1210/0, 2-43=0/430, 7-40=0/794, 3-43=-373/24, 6-40=-794/0, 3-42=-299/0, 6-41=0/604, 5-41=-299/0, 16-31=-1342/0, 9-39=-1326/0, 16-32=0/950, 9-38=0/933, 15-32=-925/0, 10-38=-902/0, 15-33=0/494, 10-37=0/477, 14-33=-459/0, 11-37=-481/0, 14-35=-112/251, 23-25=-935/0, 18-31=-1314/0, 23-26=0/562, 18-30=0/888, 22-26=-534/0, 19-30=-918/0, 19-29=0/758, 21-27=0/320, 20-29=-309/0, 21-28=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 44, 25.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F27	Floor	3	1	I50651356
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:25 2022 Page 1
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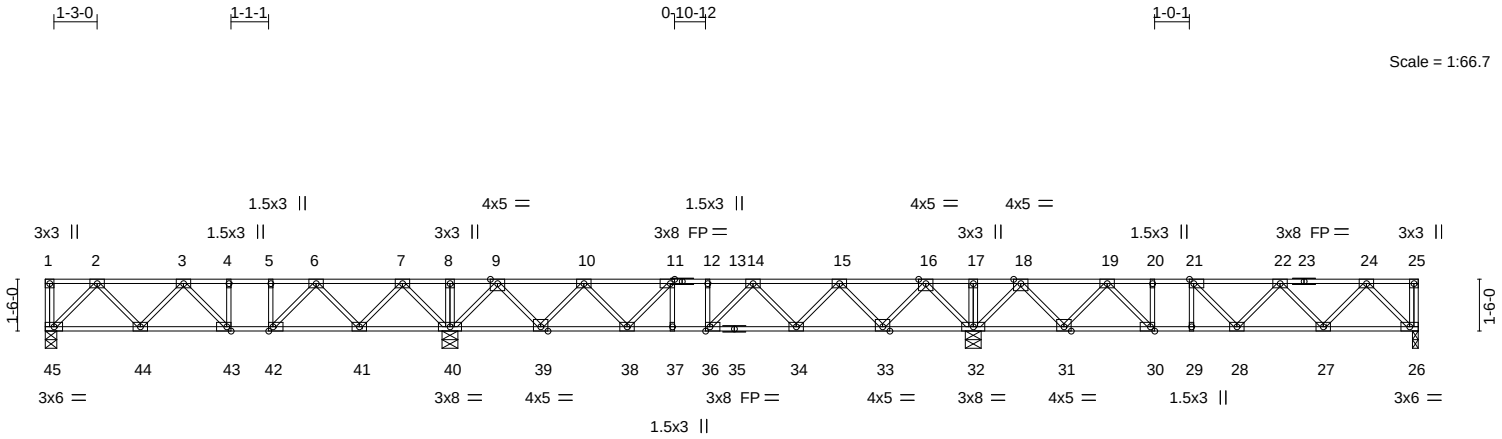

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [21:0-1-8,Edge], [30:0-1-8,Edge], [36:0-1-8,Edge], [42:0-1-8,Edge], [43:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.07	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.11	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 218 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 45=0-4-0, 26=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 45=654(LC 5), 26=726(LC 5), 40=1944(LC 3), 32=2040(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-900/0, 3-4=-1155/0, 4-5=-1155/0, 5-6=-1155/0, 6-7=-429/502, 7-8=0/1497, 8-9=0/1497, 9-10=-329/266, 10-11=-1185/0, 11-13=-1466/0, 13-14=-1466/0, 14-15=-1158/0, 15-16=-266/342, 16-17=0/1632, 17-18=0/1632, 18-19=-458/548, 19-20=-1380/0, 20-21=-1380/0, 21-22=-1432/0, 22-24=-1039/0
BOT CHORD 44-45=0/599, 43-44=0/1163, 42-43=0/1155, 41-42=-233/888, 40-41=-776/0, 39-40=-564/0, 38-39=-59/902, 37-38=0/1466, 36-37=0/1466, 34-36=0/1432, 33-34=-115/856, 32-33=-679/0, 31-32=-844/0, 30-31=-250/1000, 29-30=0/1380, 28-29=0/1380, 27-28=0/1398, 26-27=0/661
WEBS 2-45=-846/0, 7-40=-1215/0, 2-44=0/449, 7-41=0/797, 3-44=-390/11, 6-41=-801/0, 3-43=-281/0, 6-42=0/622, 5-42=-312/0, 16-32=-1348/0, 9-40=-1321/0, 16-33=0/956, 9-39=0/927, 15-33=-930/0, 10-39=-897/0, 15-34=0/499, 10-38=0/472, 14-34=-465/0, 11-38=-474/0, 14-36=-108/257, 24-26=-934/0, 18-32=-1315/0, 24-27=0/562, 18-31=0/889, 22-27=-533/0, 19-31=-919/0, 19-30=0/759, 21-28=0/322, 20-30=-309/0, 21-29=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F28	Floor	3	1	I50651357
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:26 2022 Page 1
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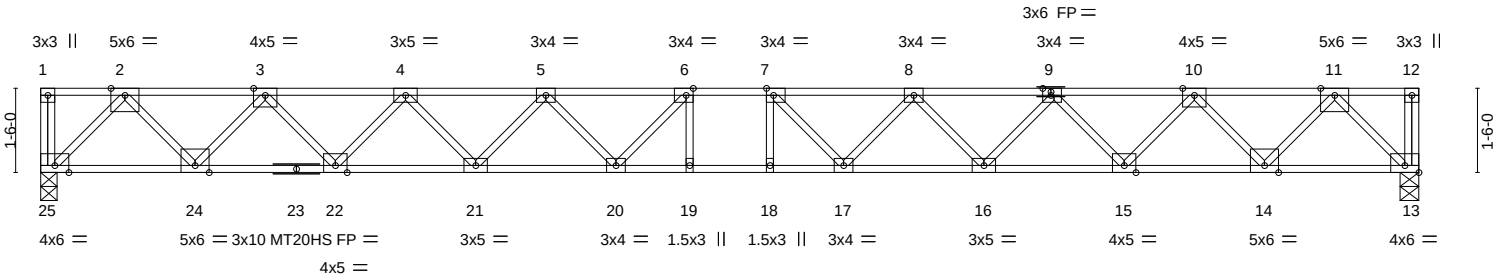

24-6-11
24-6-11

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-12,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.48	18-19	>609	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.78	18-19	>374	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-3-8, 13=0-4-0
Max Grav 25=1580(LC 1), 13=1580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2661/0, 3-4=-4614/0, 4-5=-5978/0, 5-6=-6741/0, 6-7=-6970/0, 7-8=-6741/0, 8-9=-5979/0, 9-10=-4613/0, 10-11=-2661/0
BOT CHORD 24-25=0/1517, 22-24=0/3778, 21-22=0/5429, 20-21=0/6504, 19-20=0/6970, 18-19=0/6970, 17-18=0/6970, 16-17=0/6504, 15-16=0/5429, 14-15=0/3778, 13-14=0/1517
WEBS 11-13=-2146/0, 2-25=-2146/0, 11-14=0/1700, 2-24=0/1700, 10-14=-1661/0, 3-24=-1661/0, 10-15=0/1242, 3-22=0/1243, 9-15=-1213/0, 4-22=-1212/0, 9-16=0/817, 4-21=0/816, 8-16=-781/0, 5-21=-782/0, 8-17=0/547, 5-20=0/547, 7-17=-670/134, 6-20=-670/135

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F29	Floor	1	1	I50651358
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:27 2022 Page 1
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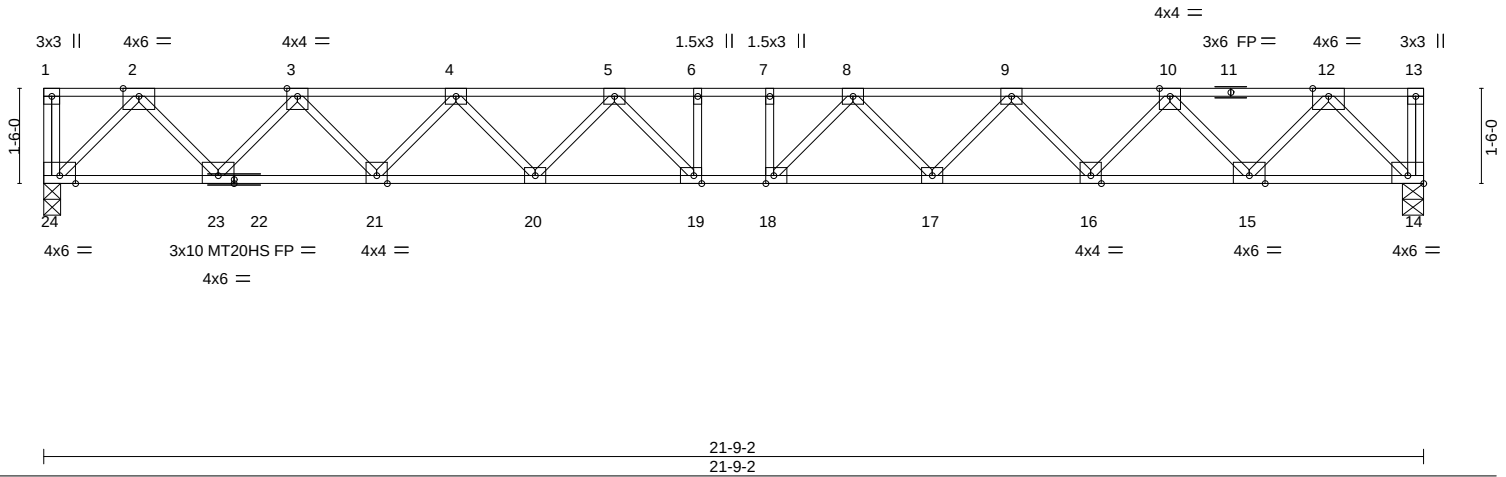

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.38	18-19	>671	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.63	18-19	>413	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 118 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 24=0-3-3, 14=0-4-0
Max Grav 24=1398(LC 1), 14=1398(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2315/0, 3-4=-3941/0, 4-5=-4968/0, 5-6=-5446/0, 6-7=-5446/0, 7-8=-5446/0, 8-9=-4968/0, 9-10=-3941/0, 10-12=-2315/0
BOT CHORD 23-24=0/1337, 21-23=0/3267, 20-21=0/4594, 19-20=0/5319, 18-19=0/5446, 17-18=0/5319, 16-17=0/4594, 15-16=0/3267, 14-15=0/1337
WEBS 12-14=-1891/0, 2-24=-1890/0, 12-15=0/1454, 2-23=0/1454, 10-15=-1415/0, 3-23=-1415/0, 10-16=0/1002, 3-21=0/1002, 9-16=-971/0, 4-21=-971/0, 9-17=0/557, 4-20=0/557, 8-17=-533/0, 5-20=-533/0, 8-18=-192/521, 5-19=-192/521, 6-19=-255/51, 7-18=-255/51

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F30	Floor	1	1	I50651359
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:31 2022 Page 1
ID:hubhZSntRI7HMrwP_m8M7ZyYT2O-dQMX6CQjk?8dwkdikahaa6EivJPmuKdBGE?5rHzd02A

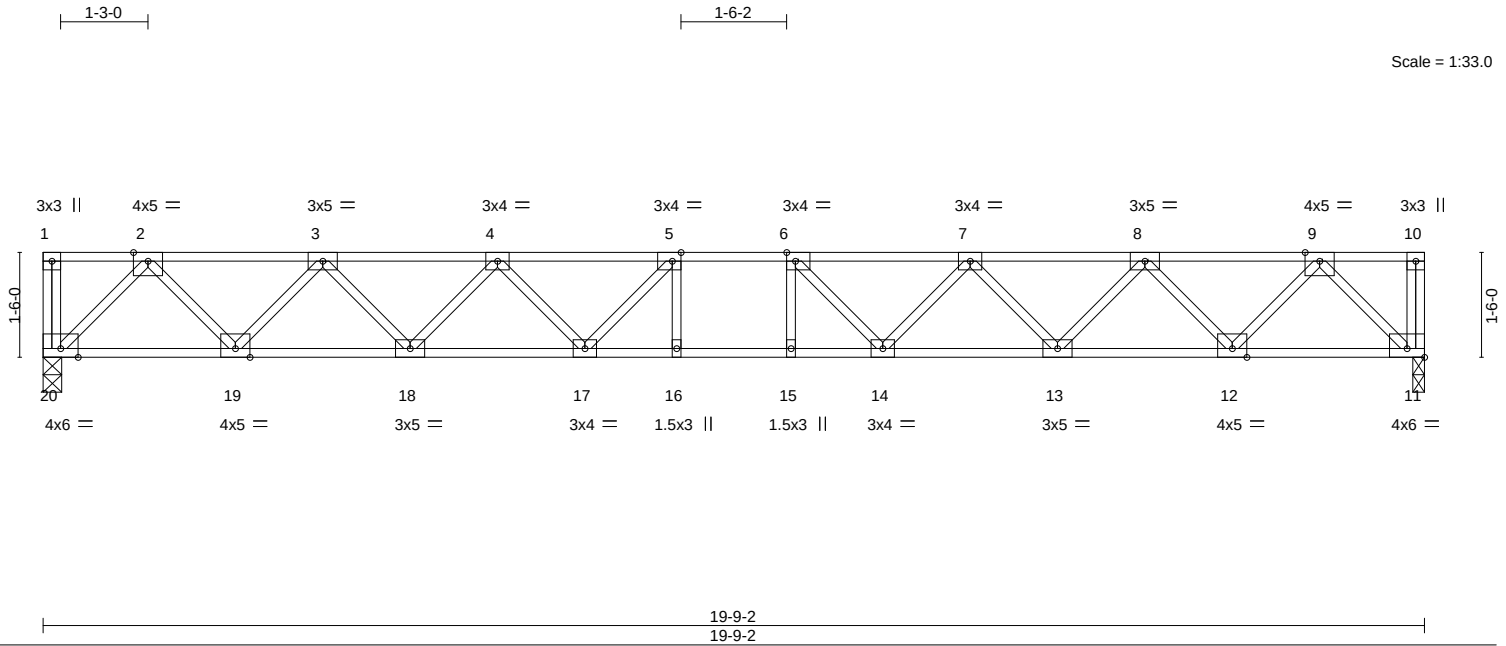

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.24	15-16	>976	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.39	15-16	>600	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 107 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-3-3, 11=0-2-0
Max Grav 20=1268(LC 1), 11=1268(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2067/0, 3-4=-3459/0, 4-5=-4244/0, 5-6=-4489/0, 6-7=-4244/0, 7-8=-3459/0, 8-9=-2067/0
BOT CHORD 19-20=0/1207, 18-19=0/2901, 17-18=0/3994, 16-17=0/4489, 15-16=0/4489, 14-15=0/4489, 13-14=0/3994, 12-13=0/2901, 11-12=0/1207
WEBS 9-11=-1707/0, 2-20=-1707/0, 9-12=0/1278, 2-19=0/1278, 8-12=-1240/0, 3-19=-1240/0, 8-13=0/829, 3-18=0/829, 7-13=-796/0, 4-18=-796/0, 7-14=0/485, 4-17=0/485, 6-14=-608/27, 5-17=-608/27

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F31	Floor	1	1	I50651360
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:32 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-6dwwJYRLUIGUYuCvIICp7KnuDjhYdo8LUukfNkzd029

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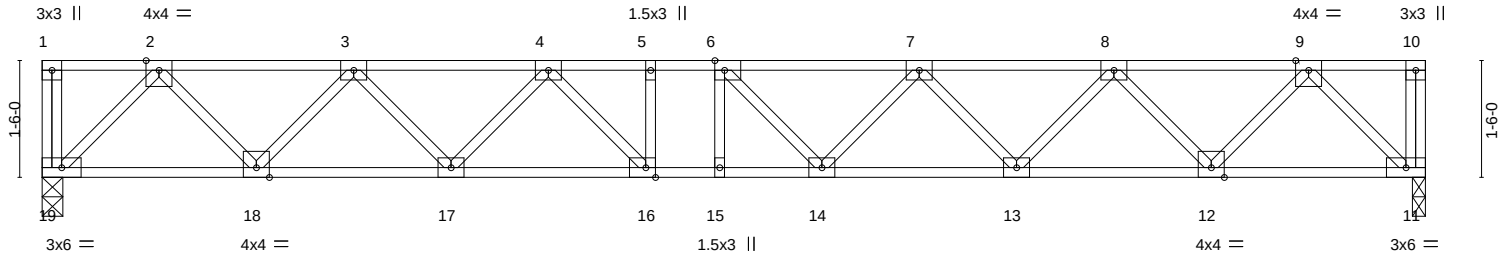

17-9-2
17-9-2

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.18	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.30	14-15	>706	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=0-3-3, 11=0-2-0
Max Grav 19=1138(LC 1), 11=1138(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1822/0, 3-4=-2964/0, 4-5=-3604/0, 5-6=-3604/0, 6-7=-3527/0, 7-8=-2975/0, 8-9=-1819/0
BOT CHORD 18-19=0/1077, 17-18=0/2539, 16-17=0/3382, 15-16=0/3604, 14-15=0/3604, 13-14=0/3399, 12-13=0/2534, 11-12=0/1078
WEBS 9-11=-1525/0, 2-19=-1523/0, 9-12=0/1102, 2-18=0/1109, 8-12=-1062/0, 3-18=-1065/0, 8-13=0/656, 3-17=0/631, 7-13=-630/0, 4-17=-622/0, 7-14=-3/323, 4-16=-20/526, 6-14=-332/137

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F32	Floor	1	1	I50651361
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:32 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-6dwwJYRLUIGUYuCvIICp7KnxijfUdqSLUukfNkzd029

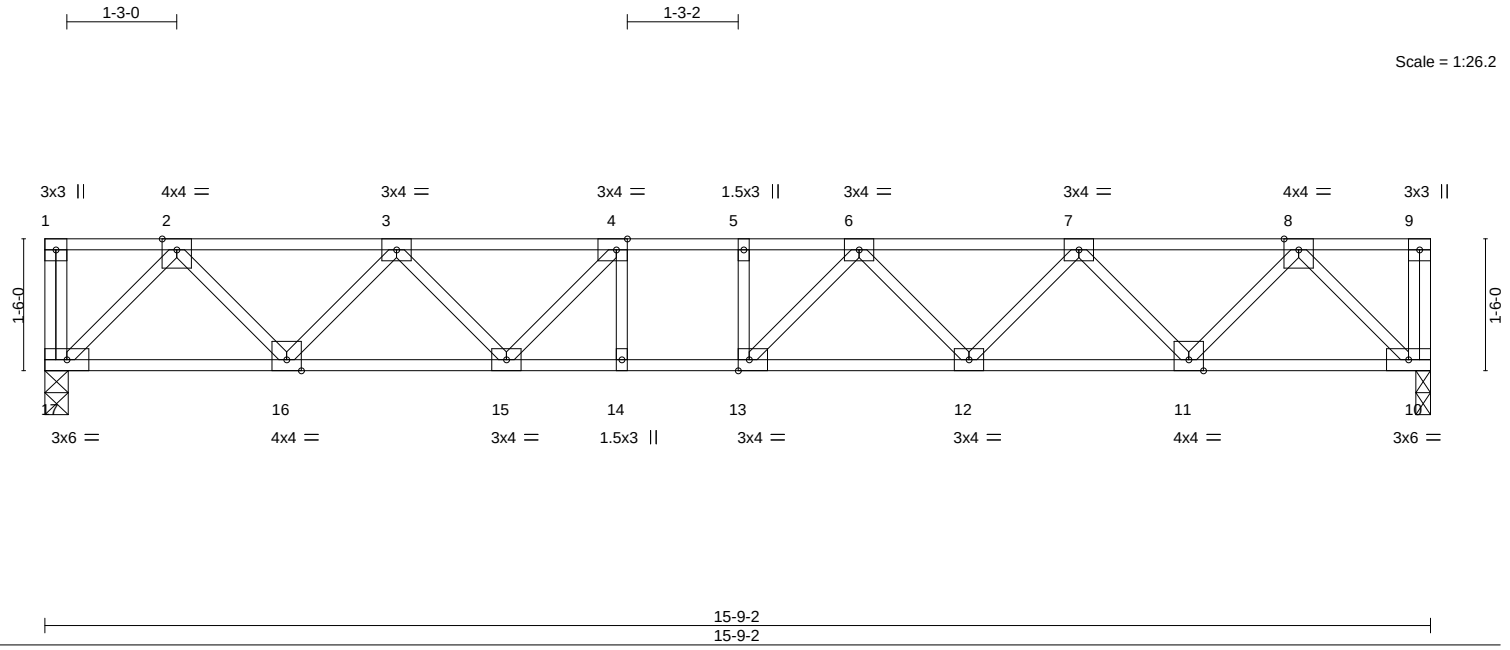

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.21	12-13	>895	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 17=0-3-3, 10=0-2-0
Max Grav 17=1008(LC 1), 10=1008(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1574/0, 3-4=-2486/0, 4-5=-2815/0, 5-6=-2815/0, 6-7=-2491/0, 7-8=-1572/0
BOT CHORD 16-17=0/948, 15-16=0/2171, 14-15=0/2815, 13-14=0/2815, 12-13=0/2776, 11-12=0/2175, 10-11=0/947
WEBS 8-10=-1339/0, 2-17=-1340/0, 8-11=0/930, 2-16=0/931, 7-11=-896/0, 3-16=-889/0, 7-12=0/469, 3-15=0/505, 6-12=-423/0, 4-15=-585/0, 6-13=-173/332

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F33	Floor	1	1	I50651362
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:33 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-apUIXuRzFcPK92m5r?k2fXJ7j75rMH_UjYUCvAzd028

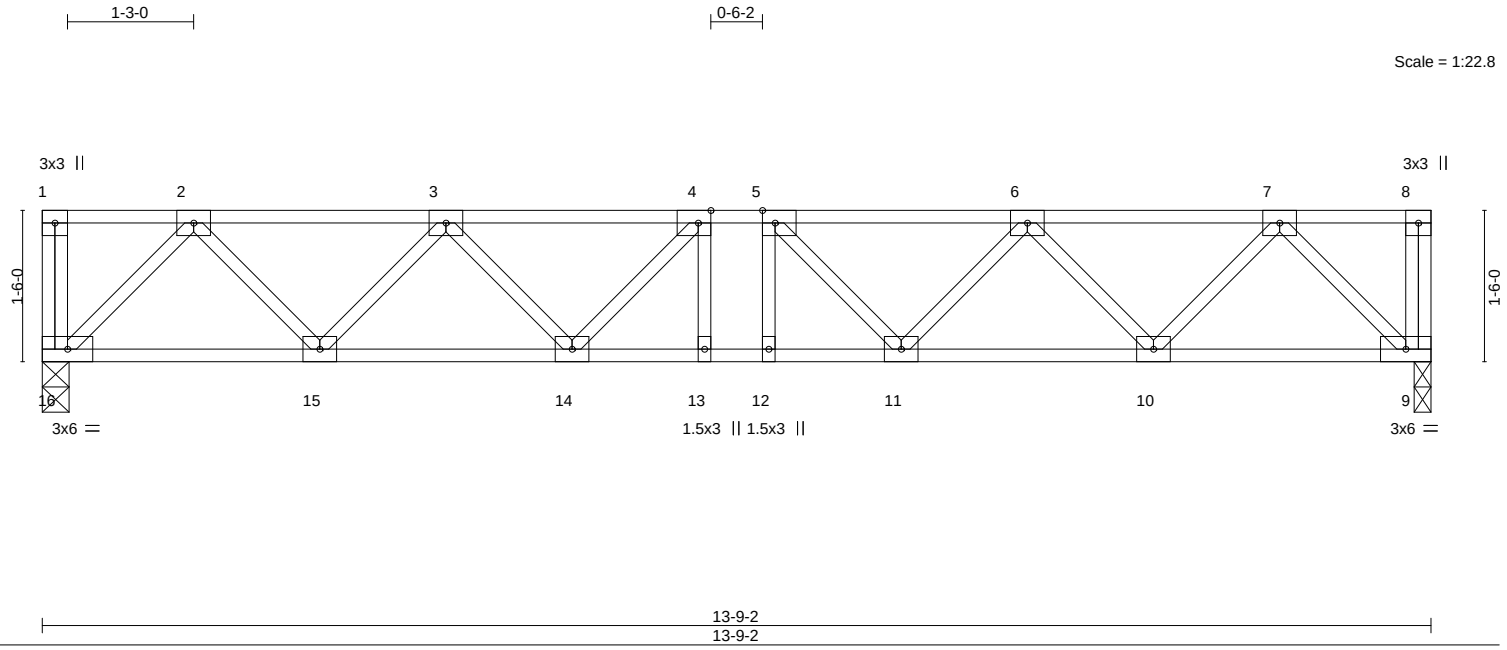

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-3, 9=0-2-0
Max Grav 16=878(LC 1), 9=878(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1327/0, 3-4=-2000/0, 4-5=-2180/0, 5-6=-2000/0, 6-7=-1327/0
BOT CHORD 15-16=0/817, 14-15=0/1811, 13-14=0/2180, 12-13=0/2180, 11-12=0/2180, 10-11=0/1811, 9-10=0/817
WEBS 7-9=-1155/0, 2-16=-1155/0, 7-10=0/759, 2-15=0/759, 6-10=-719/0, 3-15=-719/0, 6-11=0/327, 3-14=0/327, 5-11=-354/0, 4-14=-354/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F34	Floor	1	1	I50651363
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:34 2022 Page 1
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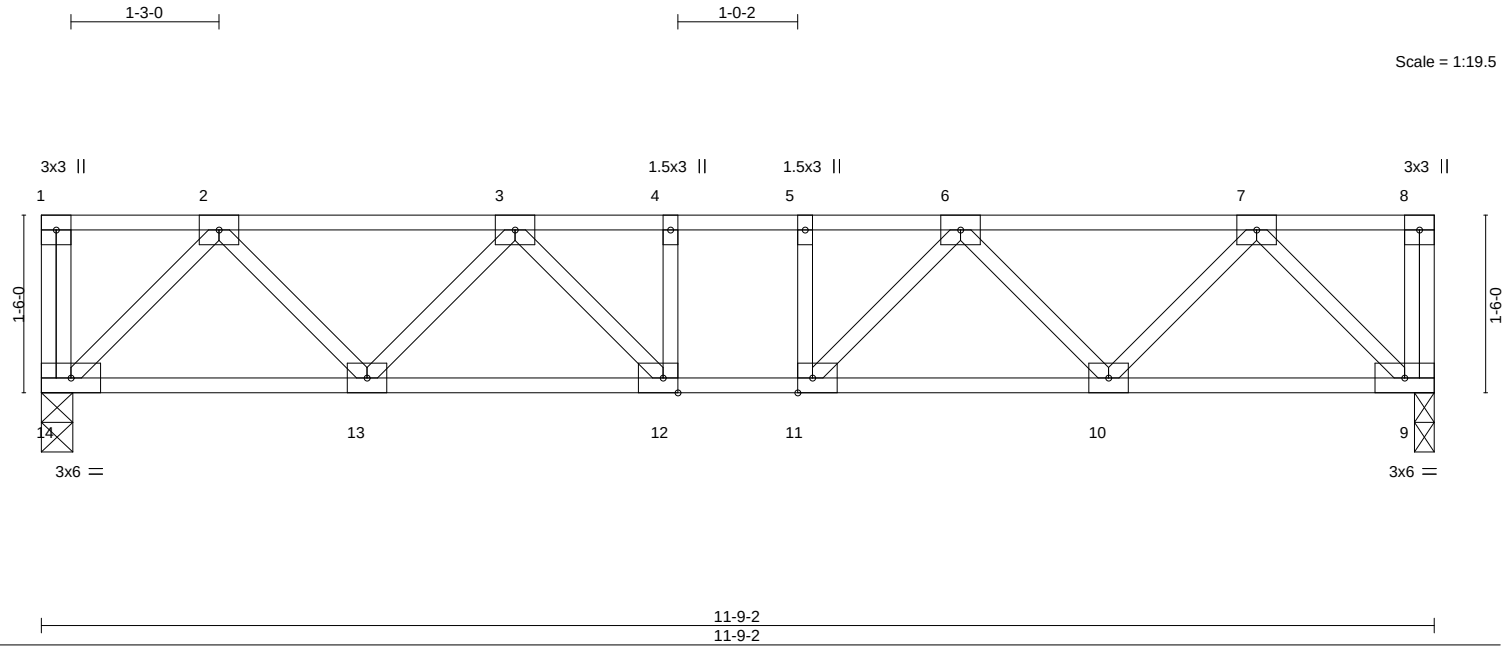

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-3, 9=0-2-0
Max Grav 14=748(LC 1), 9=748(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1074/0, 3-4=-1553/0, 4-5=-1553/0, 5-6=-1553/0, 6-7=-1074/0
BOT CHORD 13-14=0/692, 12-13=0/1430, 11-12=0/1553, 10-11=0/1430, 9-10=0/692
WEBS 7-9=-979/0, 2-14=-979/0, 7-10=0/568, 2-13=0/568, 6-10=-528/0, 3-13=-528/0, 6-11=-4/326, 3-12=-4/326

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F35	Floor	1	1	I50651364
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:34 2022 Page 1
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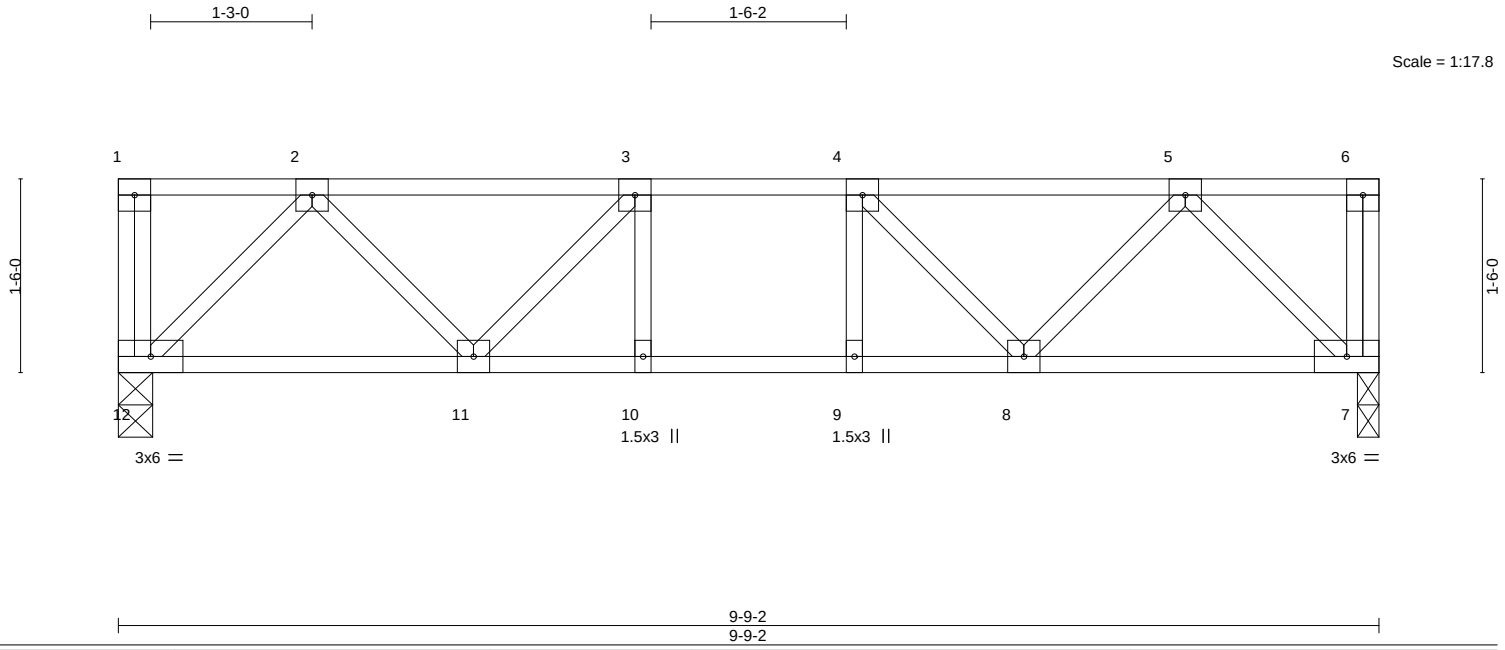

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-3, 7=0-2-0
Max Grav 12=618(LC 1), 7=618(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-823/0, 3-4=-1070/0, 4-5=-823/0
BOT CHORD	11-12=0/565, 10-11=0/1070, 9-10=0/1070, 8-9=0/1070, 7-8=0/565
WEBS	5-7=-799/0, 2-12=-799/0, 5-8=0/384, 2-11=0/384, 4-8=-383/0, 3-11=-383/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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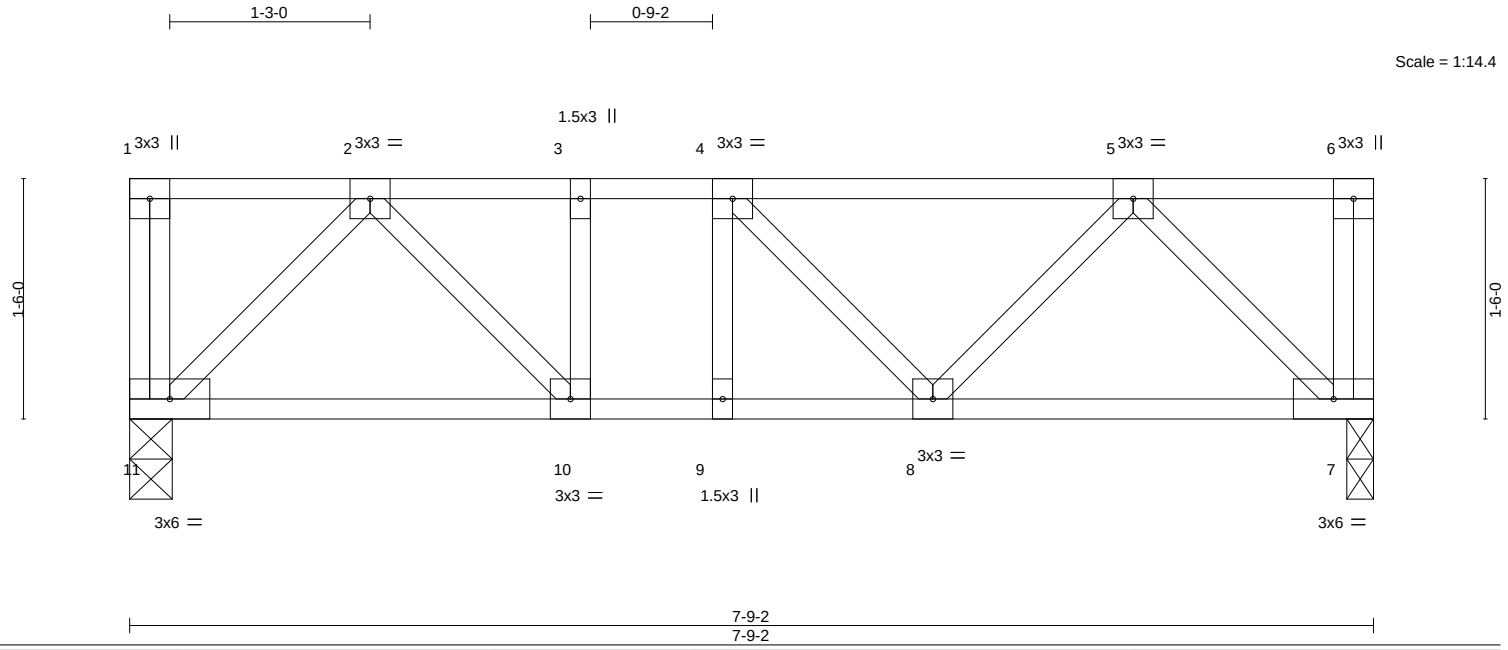
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F36	Floor	1	1	I50651365
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:35 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-WCb2yaTDnDf2PLwUzQmWkyPUmwqRqEPnBszJ_2zd026



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.02	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-3, 7=0-2-0
Max Grav 11=488(LC 1), 7=488(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-658/0, 3-4=-658/0, 4-5=-576/0
BOT CHORD	10-11=0/415, 9-10=0/658, 8-9=0/658, 7-8=0/442
WEBS	5-7=-625/0, 2-11=-587/0, 2-10=0/364

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F37	Floor	1	1	I50651366
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:36 2022 Page 1
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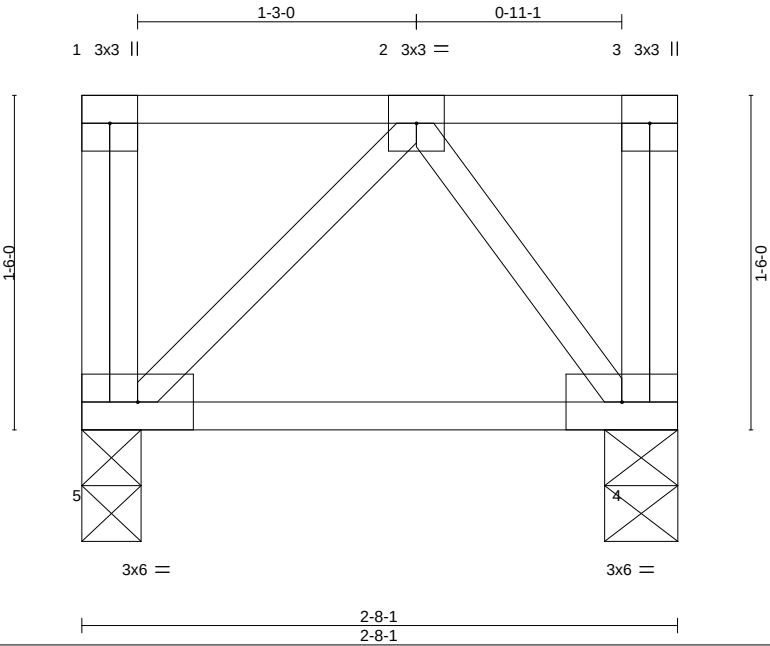

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-3, 4=0-3-15
Max Grav 5=157(LC 1), 4=157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F38	Floor	3	1	I50651367
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:37 2022 Page 1
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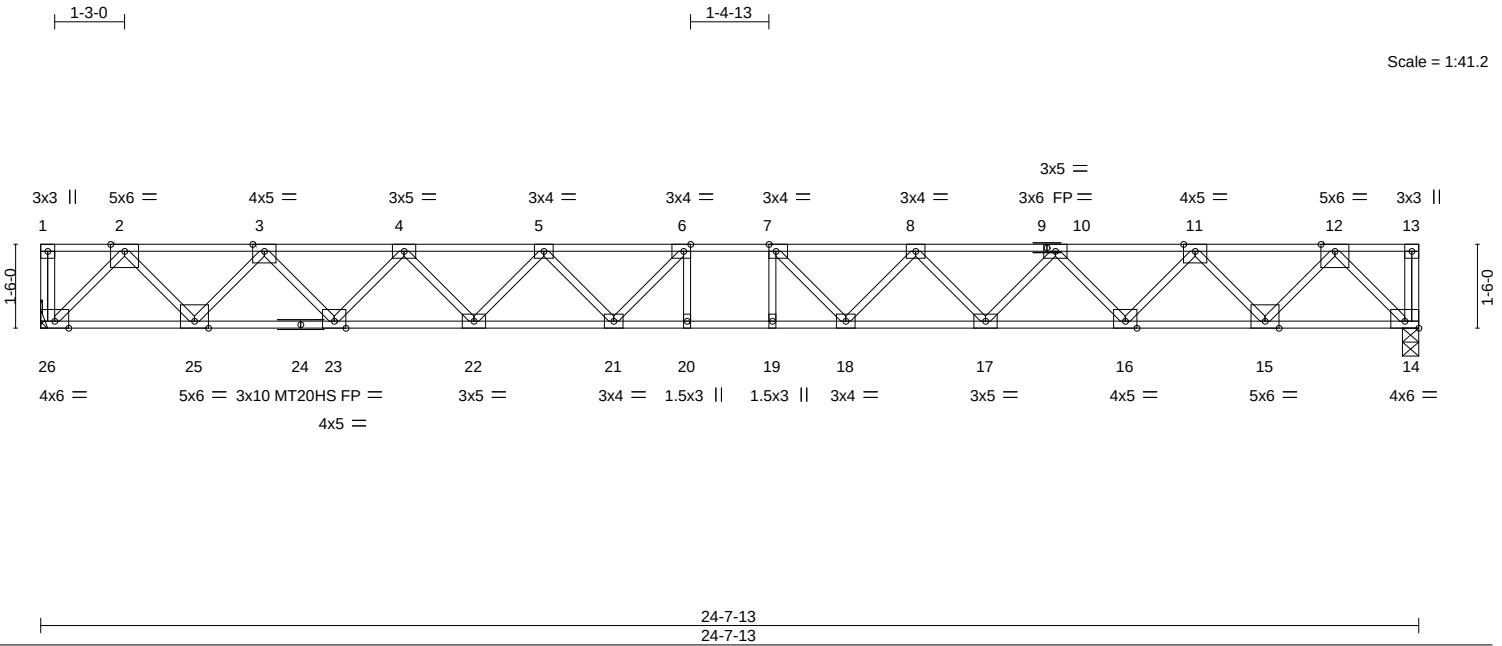

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.49	19-20	>601	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.79	19-20	>370	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.14	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 132 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 26=Mechanical, 14=0-3-8
Max Grav 26=1586(LC 1), 14=1586(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2672/0, 3-4=-4637/0, 4-5=-6012/0, 5-6=-6787/0, 6-7=-7022/0, 7-8=-6786/0, 8-10=-6013/0, 10-11=-4636/0, 11-12=-2673/0
BOT CHORD 25-26=0/1523, 23-25=0/3795, 22-23=0/5458, 21-22=0/6544, 20-21=0/7022, 19-20=0/7022, 18-19=0/7022, 17-18=0/6544, 16-17=0/5457, 15-16=0/3796, 14-15=0/1524
WEBS 12-14=-2155/0, 2-26=-2154/0, 12-15=0/1708, 2-25=0/1708, 11-15=-1669/0, 3-25=-1669/0, 11-16=0/1249, 3-23=0/1252, 10-16=-1220/0, 4-23=-1220/0, 10-17=0/826, 4-22=0/824, 8-17=-790/0, 5-22=-790/0, 8-18=0/557, 5-21=0/557, 7-18=-688/133, 6-21=-688/134

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F39	Floor	1	1	I50651368
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:37 2022 Page 1
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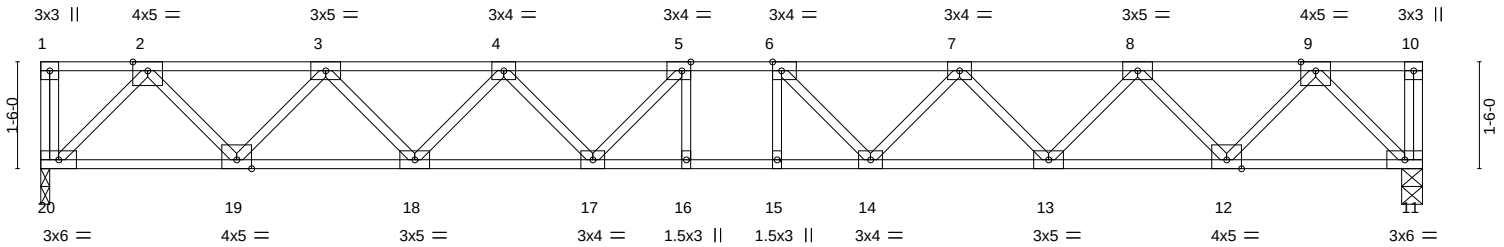

19-4-13
19-4-13

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.25	15-16	>937	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.40	15-16	>576	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	-0.08	20	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 106 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-1-8, 11=0-3-8
Max Grav 20=1245(LC 1), 11=1245(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2022/0, 3-4=-3372/0, 4-5=-4114/0, 5-6=-4334/0, 6-7=-4114/0, 7-8=-3372/0, 8-9=-2022/0
BOT CHORD 19-20=0/1184, 18-19=0/2835, 17-18=0/3886, 16-17=0/4334, 15-16=0/4334, 14-15=0/4334, 13-14=0/3886, 12-13=0/2835, 11-12=0/1184
WEBS 9-11=-1674/0, 2-20=-1674/0, 9-12=0/1246, 2-19=0/1246, 8-12=-1208/0, 3-19=-1208/0, 8-13=0/798, 3-18=0/798, 7-13=-765/0, 4-18=-765/0, 7-14=0/455, 4-17=0/455, 6-14=-544/36, 5-17=-544/36

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F40	Floor	3	1	I50651369
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:41 2022 Page 1
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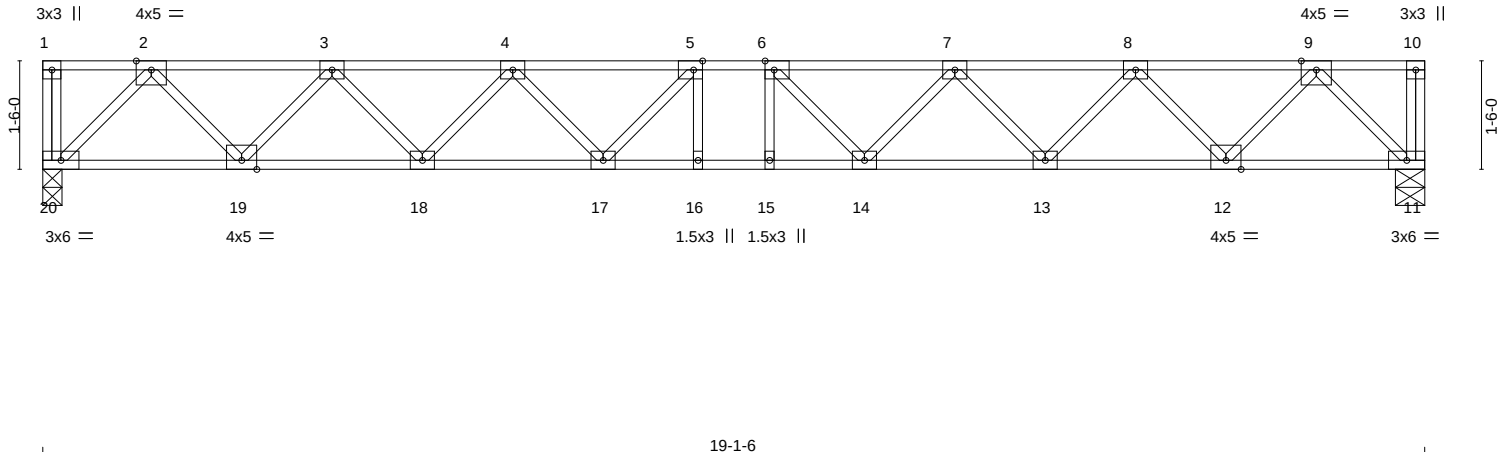

19-1-6
19-1-6

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.23	16	>978	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.38	15-16	>602	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-3-3, 11=0-4-14
Max Grav 20=1226(LC 1), 11=1226(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1987/0, 3-4=-3303/0, 4-5=-4012/0, 5-6=-4214/0, 6-7=-4012/0, 7-8=-3303/0, 8-9=-1987/0
BOT CHORD 19-20=0/1165, 18-19=0/2783, 17-18=0/3801, 16-17=0/4214, 15-16=0/4214, 14-15=0/4214, 13-14=0/3801, 12-13=0/2783, 11-12=0/1165
WEBS 9-11=-1648/0, 2-20=-1648/0, 9-12=0/1221, 2-19=0/1221, 8-12=-1183/0, 3-19=-1183/0, 8-13=0/773, 3-18=0/773, 7-13=-740/0, 4-18=-740/0, 7-14=0/428, 4-17=0/428, 6-14=-498/44, 5-17=-498/44

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F41	Floor	3	1	I50651370
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:42 2022 Page 1
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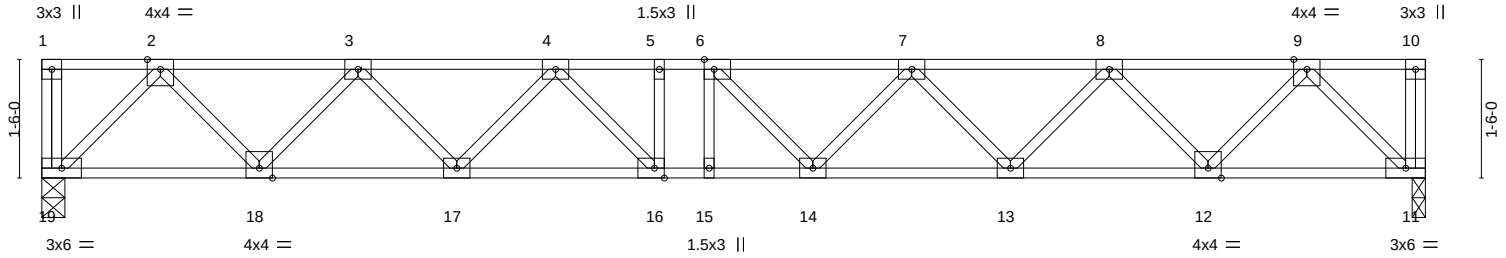

17-6-1
17-6-1

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.17	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.28	14-15	>747	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=0-3-8, 11=0-2-0
Max Grav 19=1122(LC 1), 11=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1790/0, 3-4=-2903/0, 4-5=-3504/0, 5-6=-3504/0, 6-7=-3436/0, 7-8=-2913/0, 8-9=-1788/0
BOT CHORD 18-19=0/1060, 17-18=0/2492, 16-17=0/3304, 15-16=0/3504, 14-15=0/3504, 13-14=0/3321, 12-13=0/2488, 11-12=0/1061
WEBS 9-11=-1501/0, 2-19=-1499/0, 9-12=0/1080, 2-18=0/1086, 8-12=-1040/0, 3-18=-1043/0, 8-13=0/633, 3-17=0/610, 7-13=-605/0, 4-17=-597/0, 7-14=-21/301, 4-16=-36/480, 6-14=-299/136

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F42	Floor	5	1	I50651371
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:42 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-pYXhQzYc8NX3kQzqtOO9XRBevl4TzMJpoR9Aj8zd02?

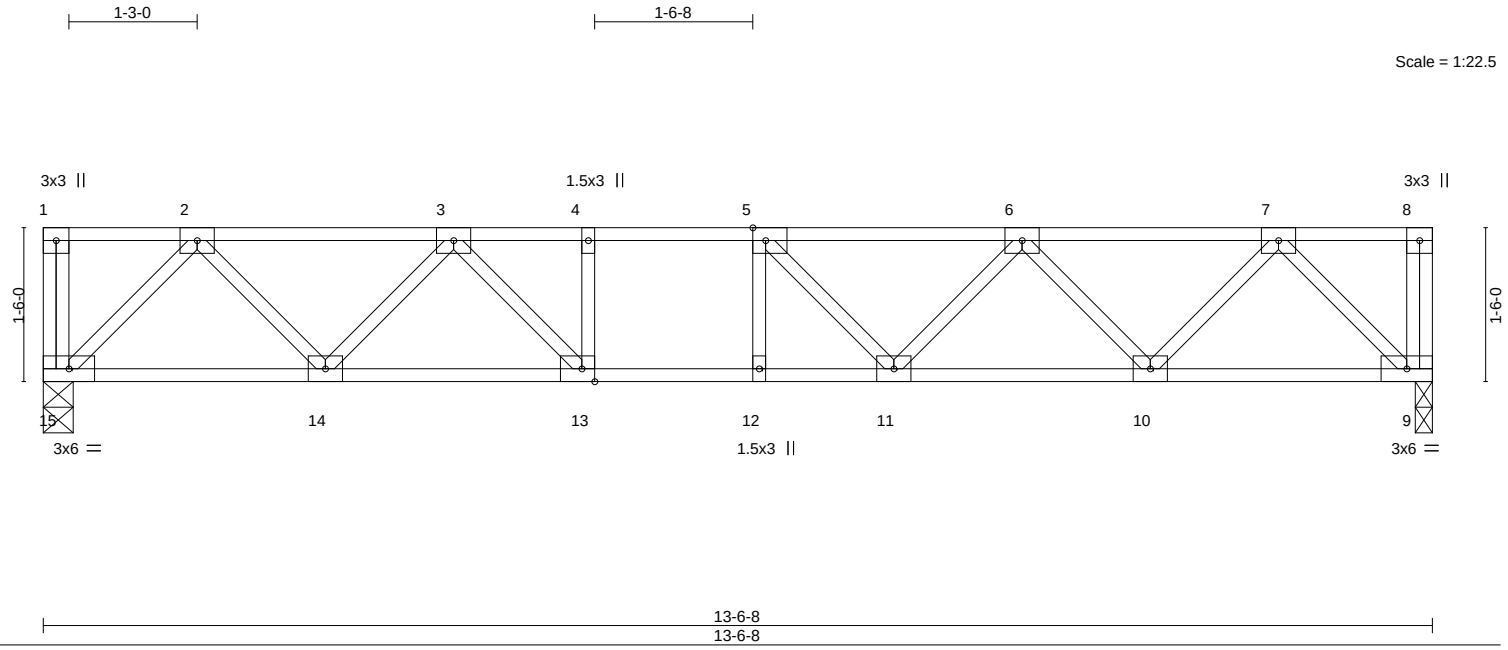

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 75 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 15=0-3-8, 9=0-2-0
Max Grav 15=864(LC 1), 9=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1285/0, 3-4=-2054/0, 4-5=-2054/0, 5-6=-1945/0, 6-7=-1300/0
BOT CHORD 14-15=0/806, 13-14=0/1758, 12-13=0/2054, 11-12=0/2054, 10-11=0/1779, 9-10=0/800
WEBS 7-9=-1131/0, 2-15=-1140/0, 7-10=0/744, 2-14=0/713, 6-10=-712/0, 3-14=-703/0, 6-11=0/316, 3-13=0/571, 5-11=-321/21, 4-13=-266/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F43	Floor	1	1	I50651372
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:43 2022 Page 1
ID:hubhZSntRI7HMrwP_m8M7ZyYT2O-Hk44dJZEvhfwMaX0R6vO3ektw9Zriq?z05vkGbzd02_

1-3-0 0-9-10

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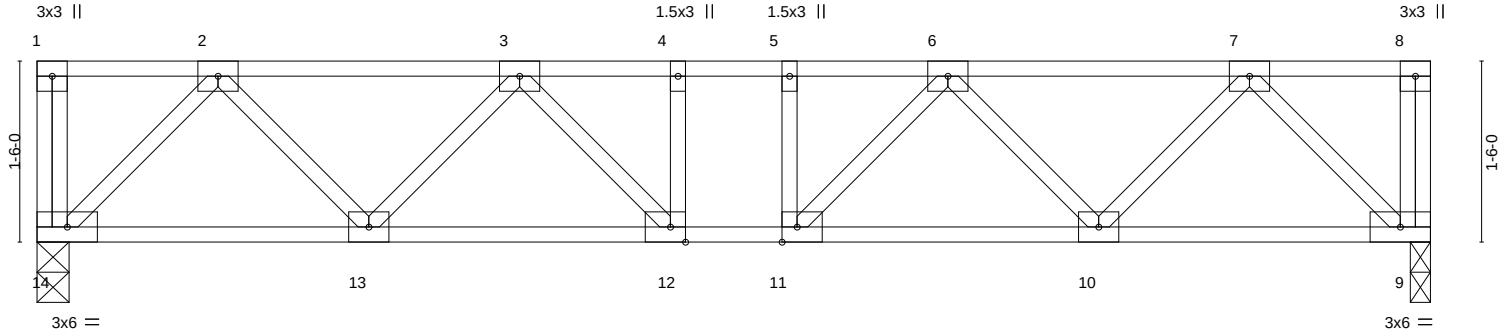

11-6-10
11-6-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-3, 9=0-2-0
Max Grav 14=734(LC 1), 9=734(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1048/0, 3-4=-1499/0, 4-5=-1499/0, 5-6=-1499/0, 6-7=-1048/0
BOT CHORD 13-14=0/678, 12-13=0/1391, 11-12=0/1499, 10-11=0/1391, 9-10=0/678
WEBS 7-9=-959/0, 2-14=-959/0, 7-10=0/550, 2-13=0/550, 6-10=-510/0, 3-13=-510/0, 6-11=-20/297, 3-12=-20/297

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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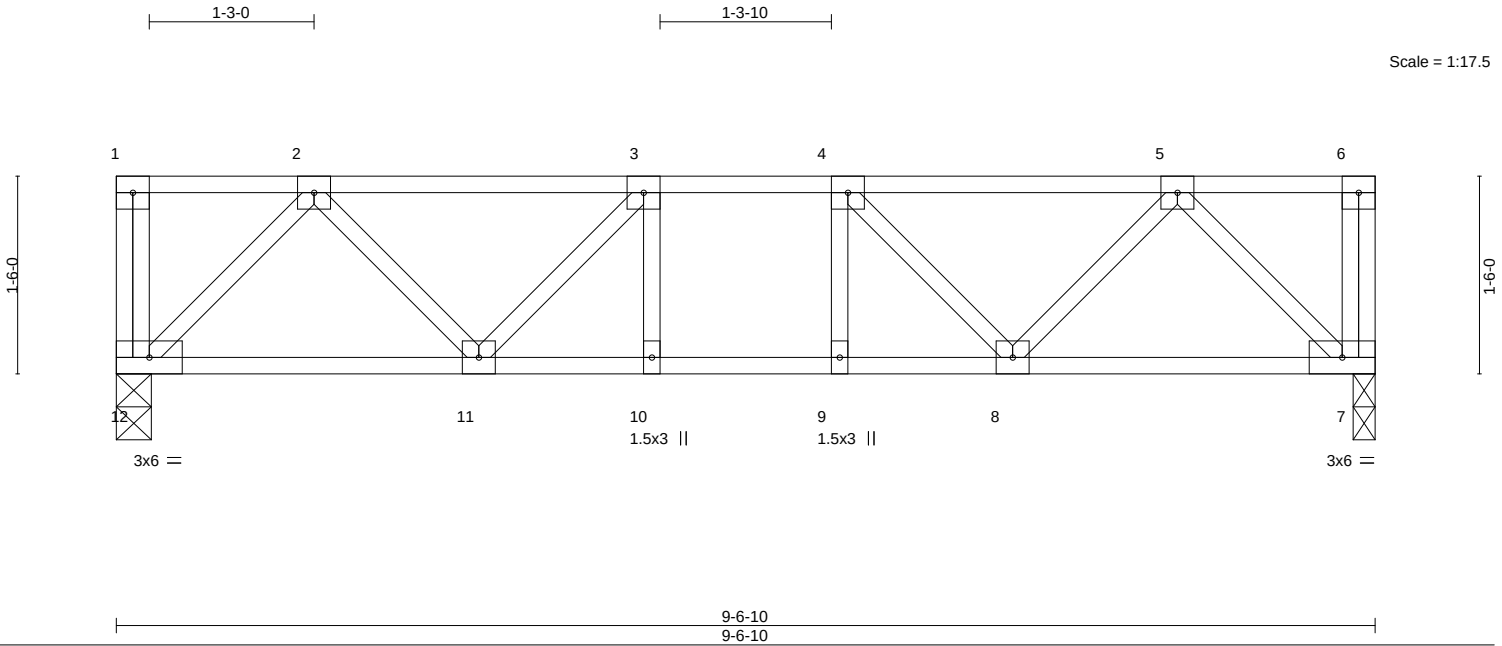
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F44	Floor	1	1	I50651373
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:44 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-lxeSqfatg_nn_k6C?pQdcsG1dYtGRJQ6FleHn1zd01z



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-3, 7=0-2-0
Max Grav 12=604(LC 1), 7=604(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-797/0, 3-4=-1029/0, 4-5=-797/0
BOT CHORD	11-12=0/552, 10-11=0/1029, 9-10=0/1029, 8-9=0/1029, 7-8=0/552
WEBS	5-7=-780/0, 2-12=-780/0, 5-8=0/364, 2-11=0/364, 4-8=-358/0, 3-11=-358/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F45	Floor	2	1	I50651374
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:45 2022 Page 1
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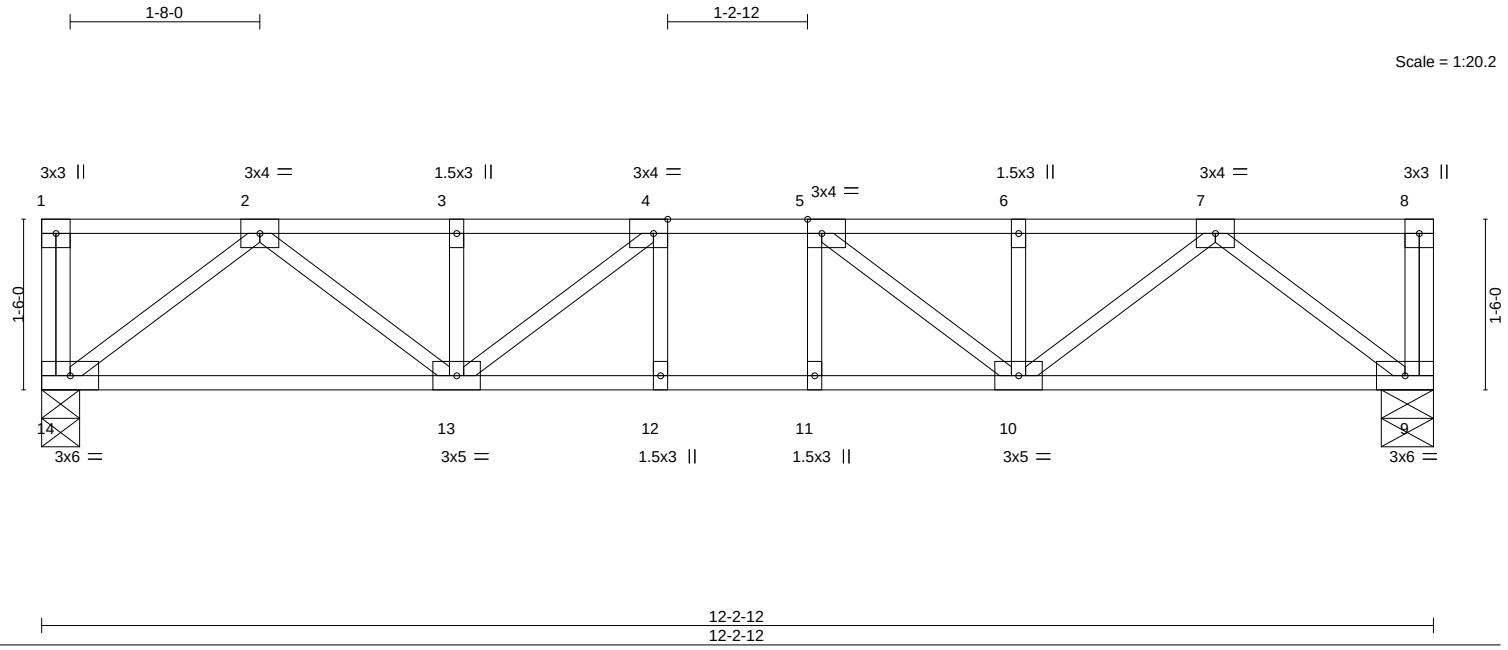

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
7-9,2-14,7-10,2-13,5-10,4-13: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-5-8
Max Grav 14=779(LC 1), 9=779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1433/0, 3-4=-1433/0, 4-5=-1687/0, 5-6=-1433/0, 6-7=-1433/0
BOT CHORD 13-14=0/881, 12-13=0/1687, 11-12=0/1687, 10-11=0/1687, 9-10=0/881
WEBS 7-9=-1111/0, 2-14=-1111/0, 7-10=0/705, 2-13=0/705, 5-10=-444/0, 4-13=-444/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F45G	FLOOR GIRDER	1	1	I50651375
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:47 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-9VKaThclyv9LrBrngx_KEUuOxmt7eYZYxjtxOMzd01w

1-3-0 1-4-8 0-6-15

Scale = 1:58.9

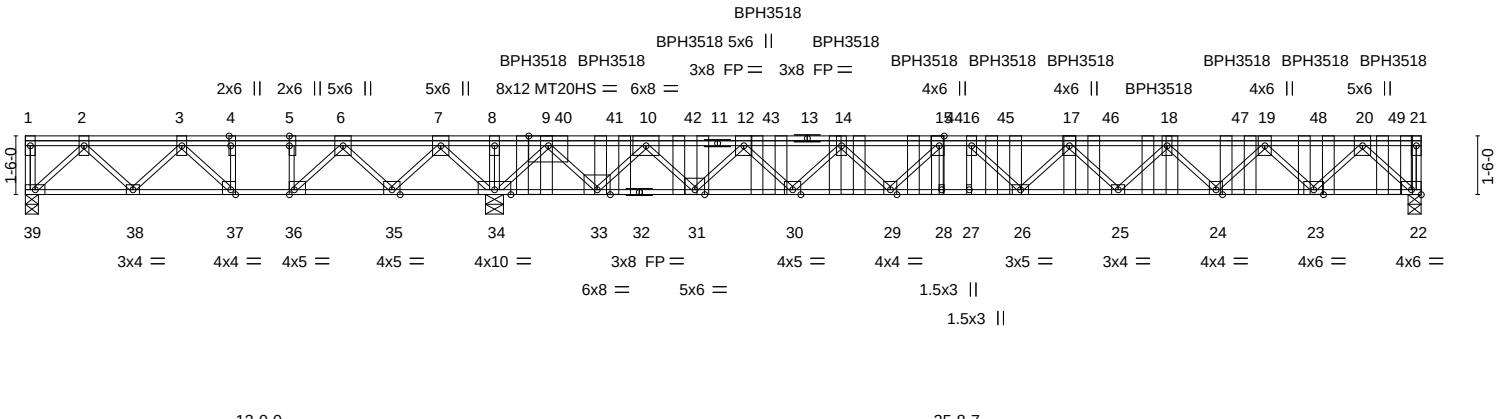

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [15:0-3-0,Edge], [22:Edge,0-1-8], [36:0-1-8,Edge], [37:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.36	26-27	>795	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.49	26-27	>573	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 241 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
22-32: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-39,21-22,8-34,4-37,5-36,15-28,16-27: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 31-33.

REACTIONS. (size) 39=0-4-0, 34=0-5-8, 22=0-4-0
Max Uplift 39=-158(LC 4), 22=-433(LC 17)
Max Grav 39=754(LC 17), 34=3479(LC 30), 22=1546(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1130/429, 3-4=-1638/1384, 4-5=-1638/1384, 5-6=-1638/1384, 6-7=-1035/2755, 7-8=0/4841, 8-9=0/4841, 9-10=-233/1072, 10-12=-1986/0, 12-14=-3857/329, 14-15=-5116/1087, 15-16=-5570/1719, 16-17=-5579/2242, 17-18=-5196/2621, 18-19=-4180/2163, 19-20=-2523/1099
BOT CHORD 38-39=-199/726, 37-38=-712/1505, 36-37=-1384/1638, 35-36=-2181/1447, 34-35=-3575/600, 33-34=-2717/41, 31-33=0/958, 30-31=-88/3049, 29-30=-585/4674, 28-29=-1719/5570, 27-28=-1719/5570, 26-27=-1719/5570, 25-26=-2679/5549, 24-25=-2599/4821, 23-24=-1748/3517, 22-23=-478/1503
WEBS 2-39=-1003/275, 7-34=-1750/0, 2-38=-334/586, 7-35=0/1304, 3-38=-544/411, 6-35=-1318/0, 3-37=-1054/188, 6-36=0/1465, 4-37=-118/665, 5-36=-920/0, 20-22=-2078/660, 9-34=-2937/0, 20-23=-901/1479, 9-33=0/2385, 19-23=-1441/941, 10-33=-2360/0, 19-24=-602/962, 10-31=-154/1802, 18-24=-929/632, 12-31=-1766/192, 18-25=-32/544, 12-30=-350/1220, 17-25=-513/84, 14-30=-1185/371, 17-26=0/900, 14-29=-788/641, 16-26=-1044/13, 15-29=-642/989, 15-28=-404/62, 16-27=-54/418

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 39=158, 22=433.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.
10) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 13-0-4 from the left end to 35-0-4 to connect truss(es) to back face of top chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F45G	FLOOR GIRDER	1	1	I50651375 Job Reference (optional)

NOTES-

11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 22-39=-10, 1-21=-120
   Concentrated Loads (lb)
   Vert: 18=91(B) 14=-77(B) 40=-77(B) 41=-77(B) 42=-77(B) 43=-77(B) 44=-77(B) 45=91(B) 46=91(B) 47=91(B) 48=-77(B) 49=-104(B)
29) Reversal: User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 22-39=-10(F), 1-21=-120(F)
   Concentrated Loads (lb)
   Vert: 18=379(B) 14=-77(B) 40=-77(B) 41=-77(B) 42=-77(B) 43=-77(B) 44=-77(B) 45=379(B) 46=379(B) 47=379(B) 48=-77(B) 49=-104(B)
30) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 22-39=-10(F), 1-21=-120(F)
   Concentrated Loads (lb)
   Vert: 14=-77(B) 40=-77(B) 41=-77(B) 42=-77(B) 43=-77(B) 44=-77(B) 48=-77(B) 49=-104(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F46	Floor	5	1	I50651376
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:49 2022 Page 1
ID:hubhZSntRI7HMrwP_m8M7ZyYT2O-6uSLuMe?UXQ34V?AnM0oJv_kWZVJ6O5rP1M2SEzd01u

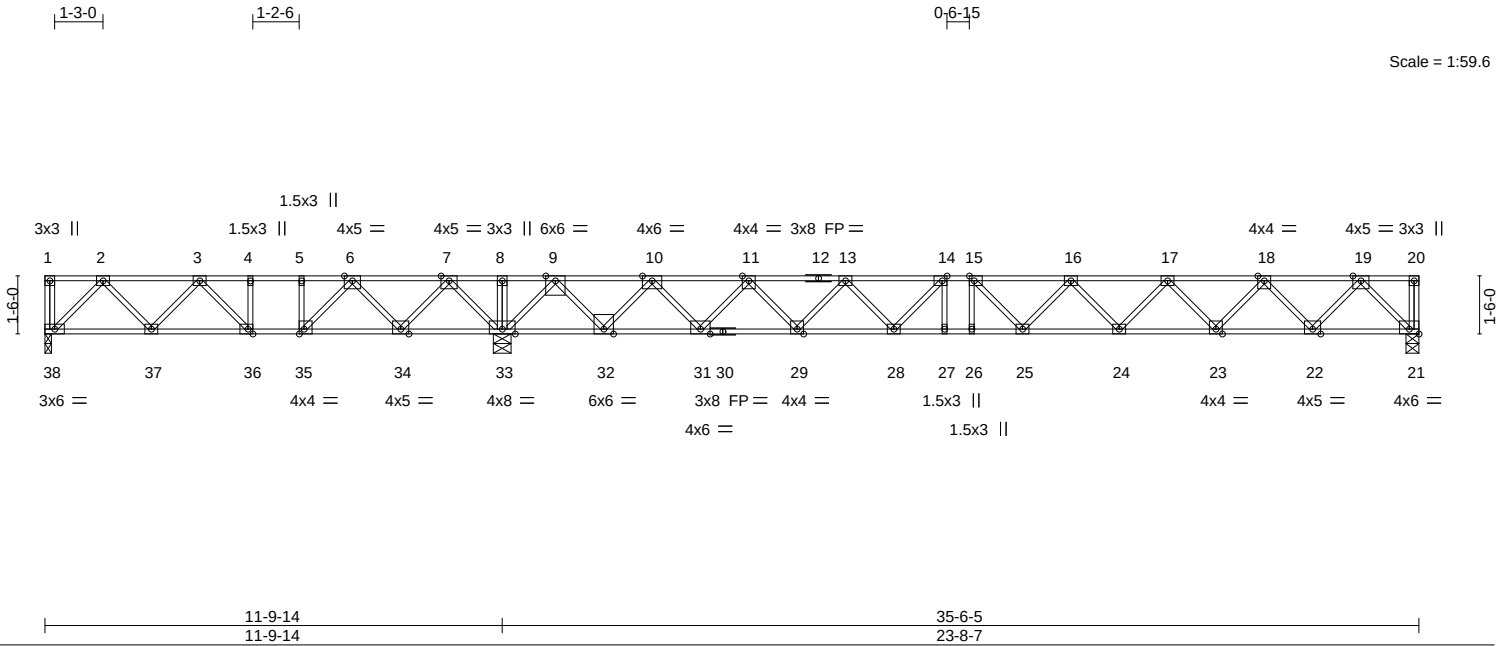

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>816	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.55	25-26	>512	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-12 oc bracing.

REACTIONS. (size) 38=0-2-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-155(LC 4)
Max Grav 38=542(LC 3), 21=1310(LC 4), 33=3013(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-693/400, 3-4=-674/1282, 4-5=-674/1282, 5-6=-674/1282, 6-7=0/2548, 7-8=0/4055, 8-9=0/4055, 9-10=0/1065, 10-11=-1467/0, 11-13=-3145/0, 13-14=-4224/0, 14-15=-4681/0, 15-16=-4763/0, 16-17=-4488/0, 17-18=-3613/0, 18-19=-2148/0

BOT CHORD 37-38=-180/486, 36-37=-696/850, 35-36=-1282/674, 34-35=-1983/222, 33-34=-3082/0, 32-33=-2371/0, 31-32=-280/469, 29-31=0/2441, 28-29=0/3821, 27-28=0/4681, 26-27=0/4681, 25-26=0/4681, 24-25=0/4776, 23-24=0/4181, 22-23=0/3021, 21-22=0/1249

WEBS 2-38=-687/254, 7-33=-1640/0, 2-37=-327/308, 7-34=0/1181, 3-37=-232/441, 6-34=-1235/0, 3-36=-935/0, 6-35=0/1301, 4-36=0/466, 5-35=-693/0, 19-21=-1766/0, 9-33=-2382/0, 19-22=0/1336, 9-32=0/1947, 18-22=-1299/0, 10-32=-1924/0, 18-23=0/879, 10-31=0/1506, 17-23=-846/0, 11-31=-1471/0, 17-24=0/455, 11-29=0/1069, 16-24=-428/0, 13-29=-1026/0, 16-25=-251/209, 13-28=0/701, 15-25=-217/428, 14-28=-835/0, 14-27=-74/407, 15-26=-390/91

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=155.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F46G	Floor Girder	1	1	I50651377
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:52 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-WT7TWOgunSoexyjlTVZVxYcGBnYOJo3H5?ai3Zzd01r

1-3-0 1-2-6 0-6-15

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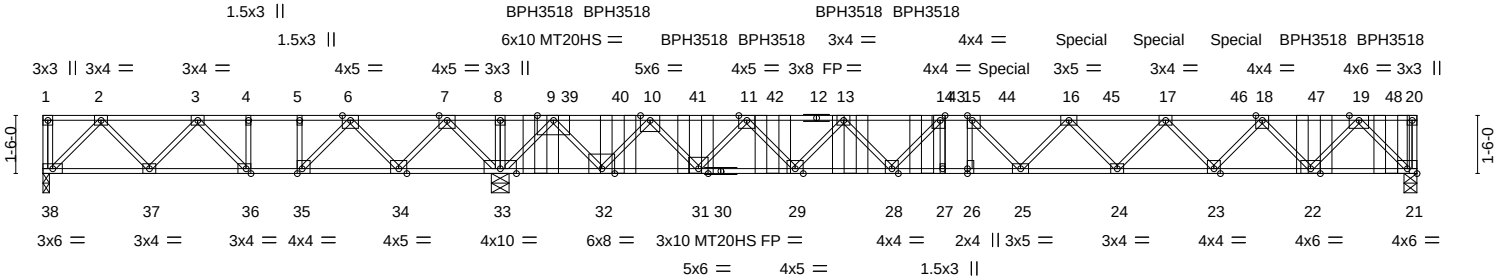

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [26:0-1-8,0-0-0], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.38	25-26	>740	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.53	25-26	>531	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.06	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
8-33,5-35,4-36,15-26,14-27: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 31-32.

REACTIONS. (size) 38=0-2-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-163(LC 4), 21=-431(LC 17)
Max Grav 38=746(LC 17), 21=1554(LC 30), 33=3456(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1071/414, 3-4=-1542/1317, 4-5=-1542/1317, 5-6=-1542/1317, 6-7=-1003/2605, 7-8=0/4548, 8-9=0/4548, 9-10=-223/927, 10-11=-1941/0, 11-13=-3772/288, 13-14=-4958/975, 14-15=-5392/1613, 15-16=-5396/2153, 16-17=-5010/2488, 17-18=-4026/2067, 18-19=-2428/1050
BOT CHORD 37-38=-187/690, 36-37=-723/1424, 35-36=-1317/1542, 34-35=-2026/1384, 33-34=-3337/601, 32-33=-2494/80, 31-32=0/918, 29-31=-46/2970, 28-29=-536/4549, 27-28=-1613/5392, 26-27=-1613/5392, 25-26=-1613/5392, 24-25=-2538/5354, 23-24=-2480/4646, 22-23=-1671/3384, 21-22=-456/1447
WEBS 2-38=-976/264, 2-37=-338/567, 3-37=-524/459, 3-36=-945/172, 7-33=-1713/0, 7-34=0/1254, 6-34=-1329/0, 6-35=0/1319, 5-35=-687/0, 4-36=-114/449, 9-33=-2905/0, 9-32=0/2329, 10-32=-2311/0, 10-31=-148/1760, 11-31=-1724/188, 11-29=-360/1191, 13-29=-1155/369, 13-28=-696/607, 14-28=-630/1027, 19-21=-2047/644, 19-22=-883/1458, 18-22=-1421/923, 18-23=-589/955, 17-23=-922/615, 17-24=-12/540, 16-24=-511/74, 16-25=0/817, 15-25=-1092/5, 15-26=-102/793, 14-27=-779/114

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=163, 21=431.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 29, 30 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.
10) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 10-0-0 oc max. starting at 12-10-8 from the left end to 34-10-8 to connect truss(es) to front face of top chord.

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F46G	Floor Girder	1	1	I50651377
					Job Reference (optional)

NOTES-

11) Fill all nail holes where hanger is in contact with lumber.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 499 lb up at 24-10-8, 499 lb up at 26-10-8, and 499 lb up at 28-10-8, and 499 lb up at 30-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 21-38=-10, 1-20=-120
   Concentrated Loads (lb)
   Vert: 13=-77(F) 17=91(F) 39=-77(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=91(F) 45=91(F) 46=91(F) 47=-77(F) 48=-105(F)
29) Reversal: User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 21-38=-10(F), 1-20=-120(F)
   Concentrated Loads (lb)
   Vert: 13=-77(F) 17=379(F) 39=-77(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=379(F) 45=379(F) 46=379(F) 47=-77(F) 48=-105(F)
30) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 21-38=-10(F), 1-20=-120(F)
   Concentrated Loads (lb)
   Vert: 13=-77(F) 39=-77(F) 40=-77(F) 41=-77(F) 42=-77(F) 43=-77(F) 47=-77(F) 48=-105(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F47	Floor	12	1	I50651378
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:53 2022 Page 1
ID:hubhZSntRI7HMrwP_m8M7ZyYT2O-_fhsjkhWYlwVZ6Ix0C5kTl8QSBqH2CaRJfKGb0zd01q

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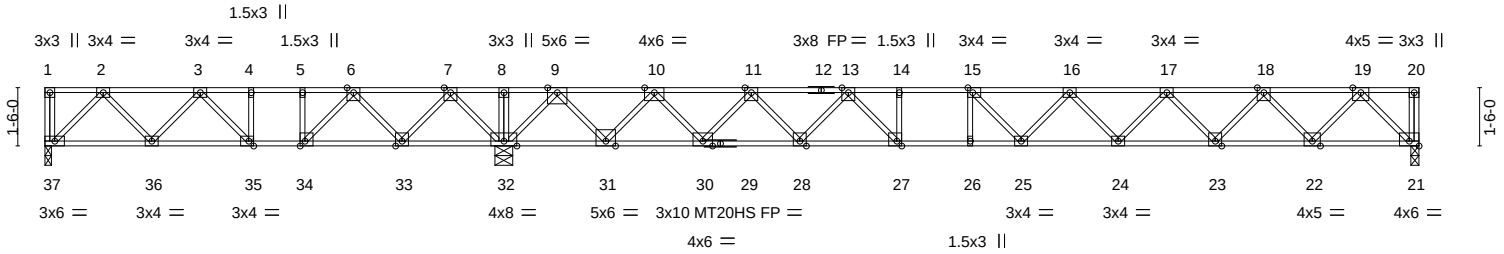

11-9-14 35-4-13
11-9-14 23-6-15

Plate Offsets (X,Y)-- [15:0-1-8,Edge], [21:Edge,0-1-8], [27:0-1-8,Edge], [34:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.37	25-26	>760	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.59	25-26	>475	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
12-20: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
21-29: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 37=0-2-0, 21=0-2-8, 32=0-5-8
Max Uplift 37=-73(LC 4)
Max Grav 37=574(LC 3), 21=1342(LC 4), 32=2883(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-753/247, 3-4=-810/935, 4-5=-810/935, 5-6=-810/935, 6-7=0/2007, 7-8=0/3360, 8-9=0/3360, 9-10=0/527, 10-11=-1992/0, 11-13=-3542/0, 13-14=-4816/0, 14-15=-4816/0, 15-16=-4987/0, 16-17=-4665/0, 17-18=-3729/0, 18-19=-2208/0
BOT CHORD 36-37=-96/519, 35-36=-471/937, 34-35=-935/810, 33-34=-1514/405, 32-33=-2471/0, 31-32=-1721/0, 30-31=0/1030, 28-30=0/2913, 27-28=0/4215, 26-27=0/4816, 25-26=0/4816, 24-25=0/5000, 23-24=0/4322, 22-23=0/3111, 21-22=0/1279
WEBS 2-37=-734/136, 7-32=-1524/0, 2-36=-224/349, 7-33=0/1077, 3-36=-273/333, 6-33=-1128/0, 3-35=-755/0, 6-34=0/1122, 4-35=0/341, 5-34=-569/0, 19-21=-1809/0, 9-32=-2317/0, 19-22=0/1380, 9-31=0/1880, 18-22=-1343/0, 10-31=-1862/0, 18-23=0/919, 10-30=0/1453, 17-23=-881/0, 11-30=-1391/0, 17-24=0/509, 11-28=0/955, 16-24=-498/0, 13-28=-1025/0, 13-27=0/1136, 15-25=-185/549, 14-27=-506/0, 15-26=-388/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 4x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 37, 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F48	Floor	4	1	I50651379
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:57 2022 Page 1
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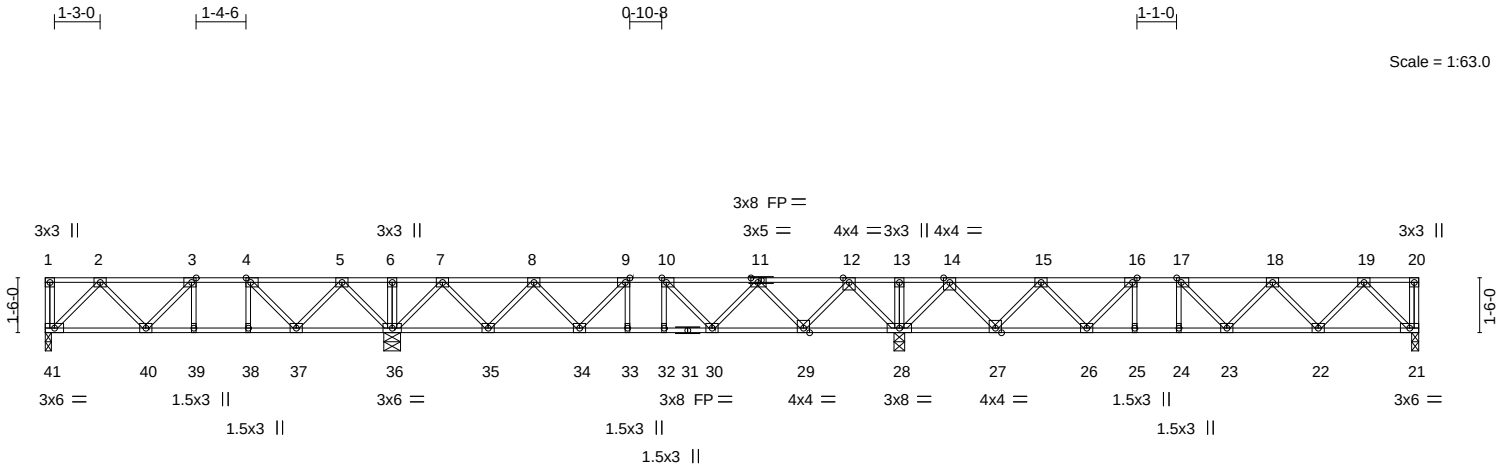

	9-5-14	23-4-6	37-6-14
	9-5-14	13-10-8	14-2-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-2-4,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	23-24	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.12	23-24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 206 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 21=0-2-5, 36=0-5-8, 28=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=544(LC 5), 21=792(LC 5), 36=1631(LC 3), 28=2107(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-681/0, 3-4=-823/0, 4-5=-489/262, 5-6=0/1002, 6-7=0/1002, 7-8=-509/61, 8-9=-1146/0, 9-10=-1295/0, 10-11=-1045/146, 11-12=-257/571, 12-13=0/1777, 13-14=0/1777, 14-15=-373/425, 15-16=-1341/0, 16-17=-1722/0, 17-18=-1679/0, 18-19=-1164/0
BOT CHORD 40-41=0/498, 39-40=0/823, 38-39=0/823, 37-38=0/823, 36-37=-482/178, 35-36=-252/83, 34-35=0/973, 33-34=0/1295, 32-33=0/1295, 30-32=0/1295, 29-30=-313/798, 28-29=-855/0, 27-28=-772/0, 26-27=-134/998, 25-26=0/1722, 24-25=0/1722, 23-24=0/1722, 22-23=0/1579, 21-22=0/728
WEBS 2-41=-704/0, 5-36=-939/0, 2-40=-23/272, 5-37=0/577, 4-37=-650/0, 12-28=-1328/0, 7-36=-1132/0, 12-29=0/937, 7-35=0/757, 11-29=-902/0, 8-35=-730/0, 11-30=0/477, 8-34=0/283, 10-30=-509/0, 19-21=-1030/0, 14-28=-1435/0, 19-22=0/648, 14-27=0/1035, 18-22=-616/0, 15-27=-995/0, 15-26=0/587, 16-26=-690/0, 16-25=0/267

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 21.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F49	Floor	10	1	I50651380
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:27:57 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-tRxMZ5k0c_Qx2kciF29gdbJFDoI9_9?0EHITknzd01m

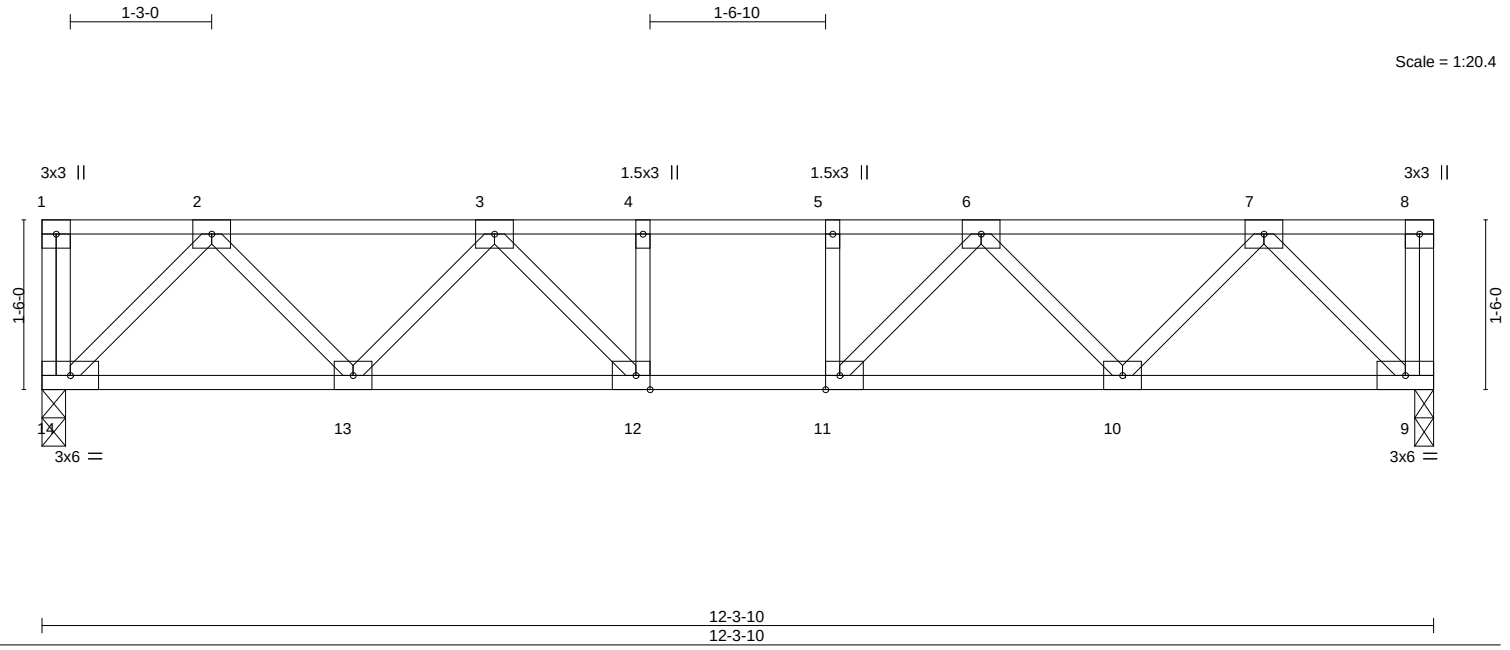

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-2-0
Max Grav 14=783(LC 1), 9=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1141/0, 3-4=-1694/0, 4-5=-1694/0, 5-6=-1694/0, 6-7=-1141/0
BOT CHORD 13-14=0/728, 12-13=0/1527, 11-12=0/1694, 10-11=0/1527, 9-10=0/728
WEBS 7-9=-1029/0, 2-14=-1029/0, 7-10=0/614, 2-13=0/614, 6-10=-574/0, 3-13=-574/0, 6-11=0/405, 3-12=0/405

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F50	Floor	4	1	I50651381
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:00 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-H0cVB7mvuvoVvBLHxAjNFExm6?NKBX7TxFW7L6zd01j

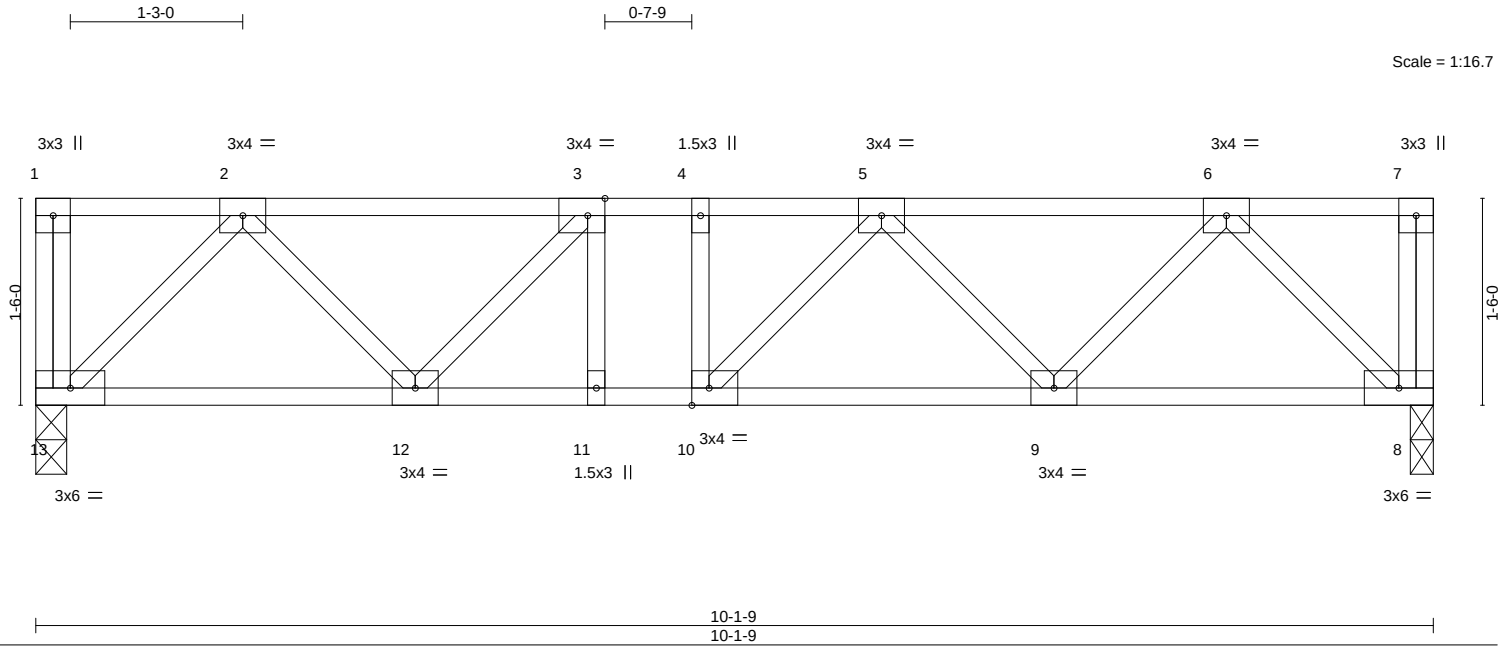

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-11, 8=0-2-0
Max Grav 13=642(LC 1), 8=642(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/0, 3-4=-1143/0, 4-5=-1143/0, 5-6=-873/0
BOT CHORD 12-13=0/587, 11-12=0/1143, 10-11=0/1143, 9-10=0/1134, 8-9=0/586
WEBS 6-8=-828/0, 2-13=-830/0, 6-9=0/427, 2-12=0/423, 5-9=-387/0, 3-12=-394/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13, 8.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F51	Floor	3	1	I50651382
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:00 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-H0cVB7mvuvoVvBLHxAjNFExna?LwBW_TxFW7L6zd01j

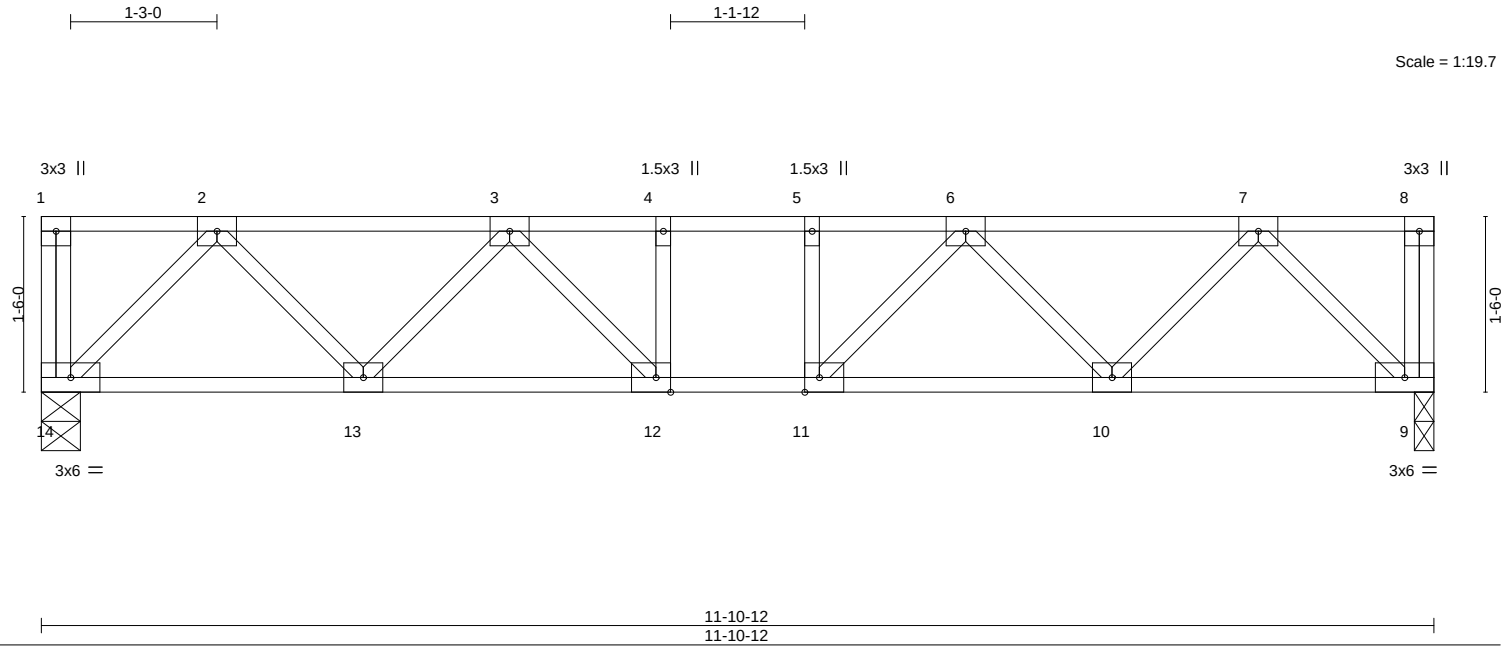

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 7-9=-991/0, 2-14=-991/0, 7-10=0/580, 2-13=0/580, 6-10=-540/0, 3-13=-540/0, 6-11=0/345, 3-12=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F52	Floor	5	1	I50651383
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:02 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-DOkFcpo9QW2D8VUg2blrKf0yJpzcfIfmOZ?EQ_zd01h

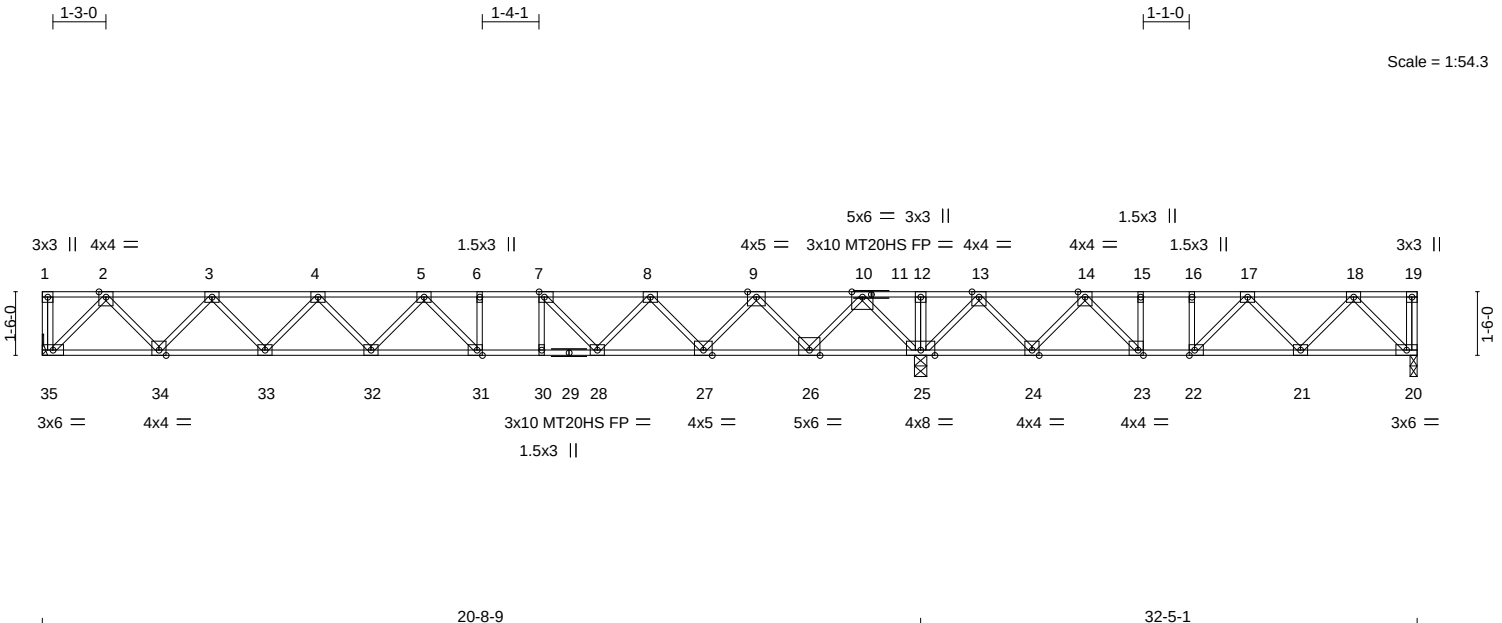

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.26	31-32	>962	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.41	31-32	>596	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	25	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 175 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
11-19: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
20-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 35=Mechanical, 20=0-2-0, 25=0-3-8
Max Uplift 20=-31(LC 3)
Max Grav 35=1157(LC 3), 20=584(LC 4), 25=2644(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1857/0, 3-4=-3040/0, 4-5=-3657/0, 5-6=-3544/0, 6-7=-3544/0, 7-8=-2938/0, 8-9=-1693/0, 9-10=0/479, 10-12=0/2946, 12-13=0/2946, 13-14=0/1687, 14-15=-864/743, 15-16=-864/743, 16-17=-864/743, 17-18=-772/171

BOT CHORD 34-35=0/1097, 33-34=0/2589, 32-33=0/3484, 31-32=0/3758, 30-31=0/3544, 28-30=0/3544, 27-28=0/2438, 26-27=0/912, 25-26=-1495/0, 24-25=-2112/0, 23-24=-1239/502, 22-23=-743/864, 21-22=-355/967, 20-21=-54/530

WEBS 2-35=-1551/0, 10-25=-2052/0, 2-34=0/1131, 10-26=0/1633, 3-34=-1088/0, 9-26=-1615/0, 3-33=0/671, 9-27=0/1185, 4-33=-659/0, 8-27=-1131/0, 4-32=0/258, 8-28=0/785, 7-28=-1011/0, 5-31=-554/99, 7-30=0/381, 18-20=-749/77, 13-25=-1448/0, 18-21=-173/360, 13-24=0/1013, 17-21=-289/274, 14-24=-1055/0, 17-22=-651/0, 14-23=0/991, 15-23=-484/0, 16-22=0/274

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 20.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F52A	Floor	2	1	I50651384
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:03 2022 Page 1
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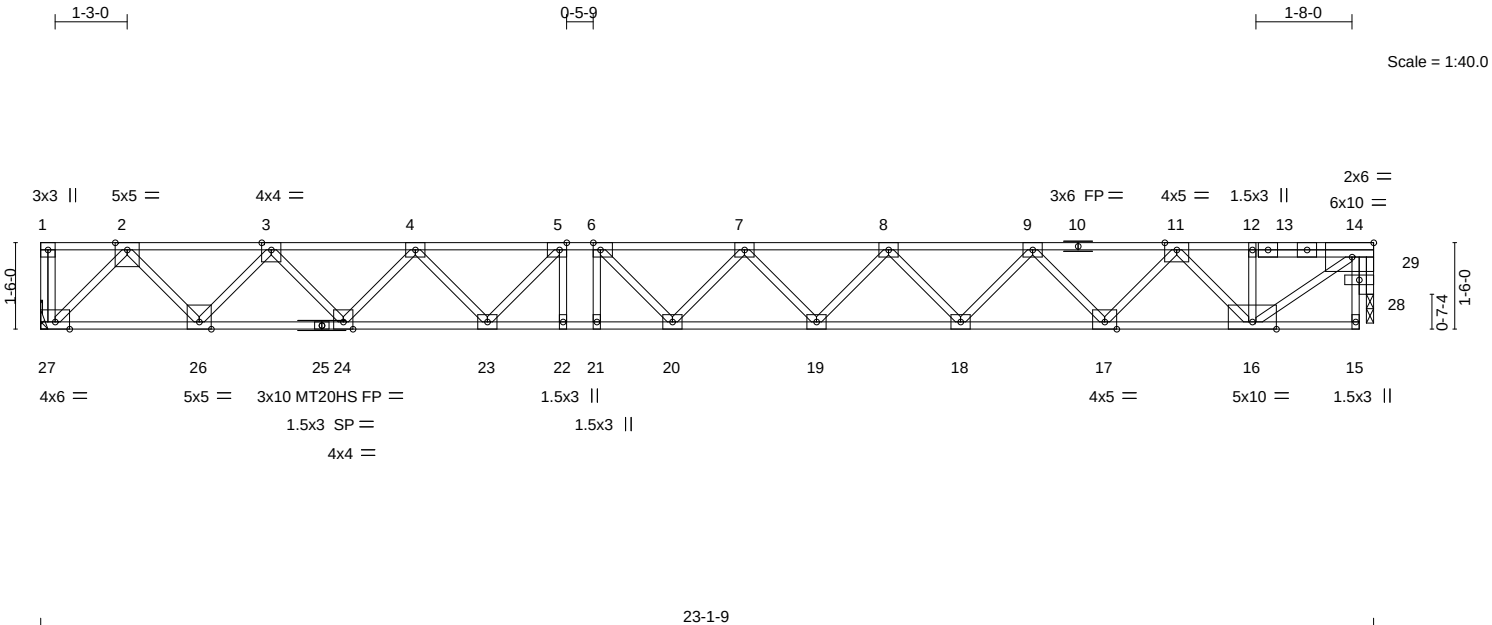

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [14:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.39	20	>712	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.63	20	>438	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.09	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 15-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except* 14-15,14-16: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 24-26.

REACTIONS. (size) 27=Mechanical, 29=0-1-8
Max Grav 27=1490(LC 1), 29=1460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2488/0, 3-4=-4280/0, 4-5=-5472/0, 5-6=-5986/0, 6-7=-6143/0, 7-8=-6005/0, 8-9=-5268/0, 9-11=-3937/0, 11-12=-2000/0, 12-14=-2003/0
BOT CHORD 26-27=0/1427, 24-26=0/3525, 23-24=0/5009, 22-23=0/5986, 21-22=0/5986, 20-21=0/5986, 19-20=0/6227, 18-19=0/5766, 17-18=0/4746, 16-17=0/3106
WEBS 14-16=0/2218, 2-27=-2018/0, 2-26=0/1578, 3-26=-1540/0, 3-24=0/1123, 4-24=-1084/0, 4-23=0/755, 5-23=-860/0, 5-22=-64/383, 11-16=-1601/0, 11-17=0/1236, 9-17=-1203/0, 9-18=0/776, 8-18=-740/0, 8-19=0/358, 7-19=-330/0, 7-20=-322/185, 6-20=-180/479, 6-21=-371/75, 14-29=-1522/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 29.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

March 9,2022

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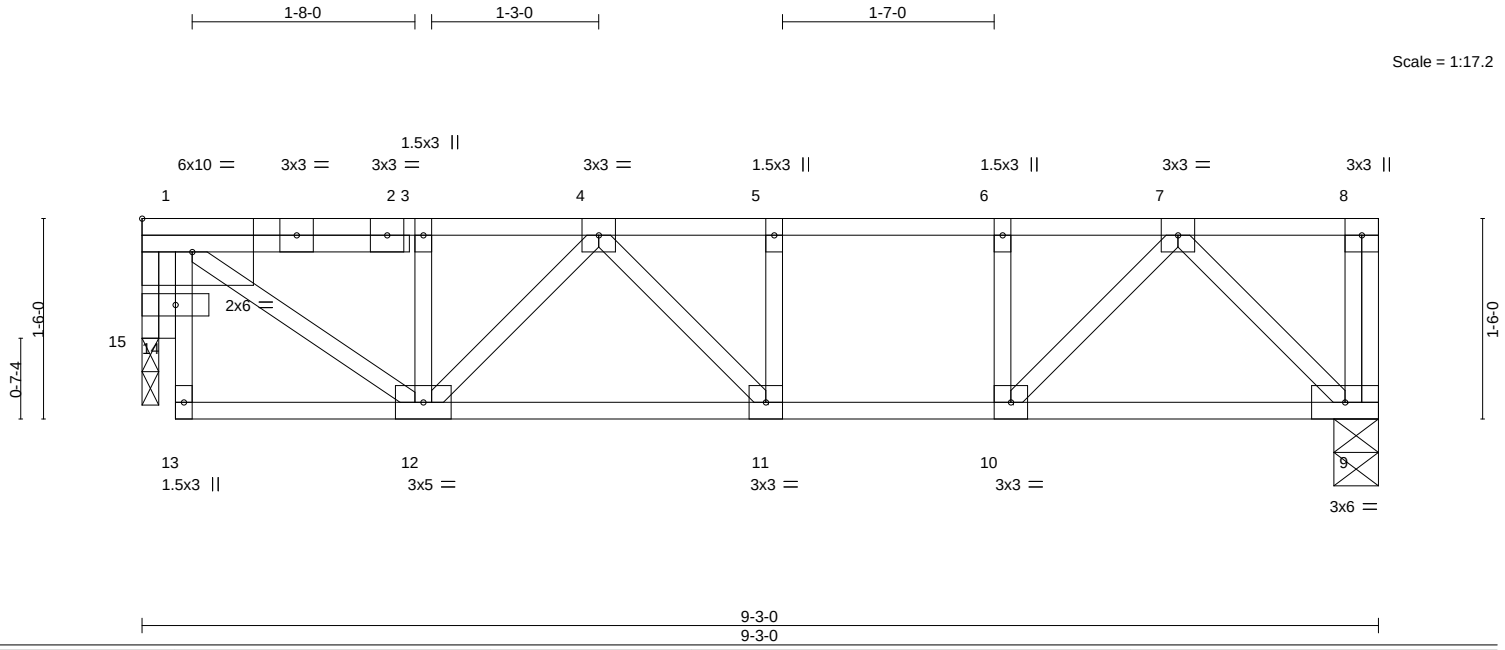
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F52B	Floor	2	1	I50651385
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:04 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Ans01VpPy8JxNoe2A0nJQ45Nrch37Kz2rtULUtzd01f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 15=0-1-8
Max Grav 9=587(LC 1), 15=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-694/0, 3-4=-690/0, 4-5=-902/0, 5-6=-902/0, 6-7=-902/0
BOT CHORD	11-12=0/904, 10-11=0/902, 9-10=0/510
WEBS	1-12=0/748, 4-12=-310/0, 7-9=-722/0, 7-10=0/582, 6-10=-323/0, 1-15=-585/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F53	Floor	5	1	I50651386
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:04 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Ans01VpPy8JxNoe2A0nJQ45QbcfG7KO2rtULUtzd01f

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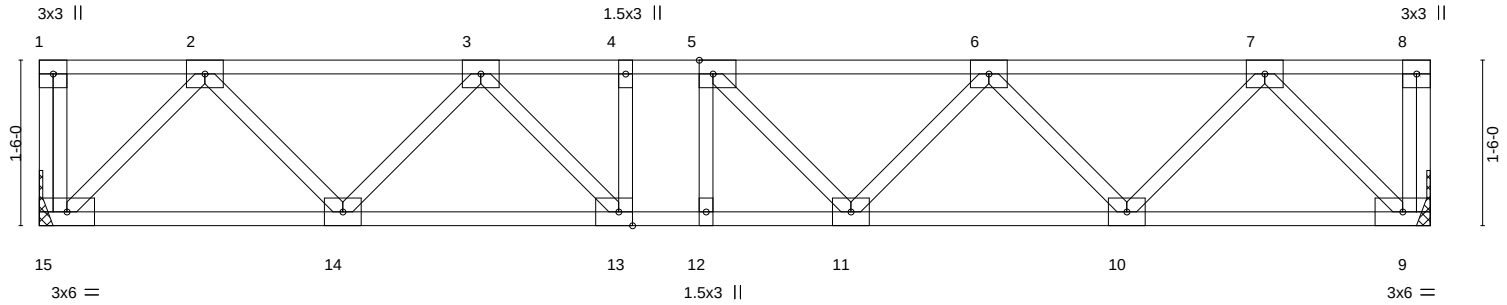

12-7-4
12-7-4

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.06	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.09	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 72 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=Mechanical
Max Grav 15=803(LC 1), 9=803(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1174/0, 3-4=-1790/0, 4-5=-1790/0, 5-6=-1720/0, 6-7=-1184/0
BOT CHORD 14-15=0/745, 13-14=0/1587, 12-13=0/1790, 11-12=0/1790, 10-11=0/1605, 9-10=0/740
WEBS 7-9=-1046/0, 2-15=-1054/0, 7-10=0/660, 2-14=0/637, 6-10=-626/0, 3-14=-615/0, 3-13=0/411

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F54	Floor	13	1	I50651387
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:05 2022 Page 1
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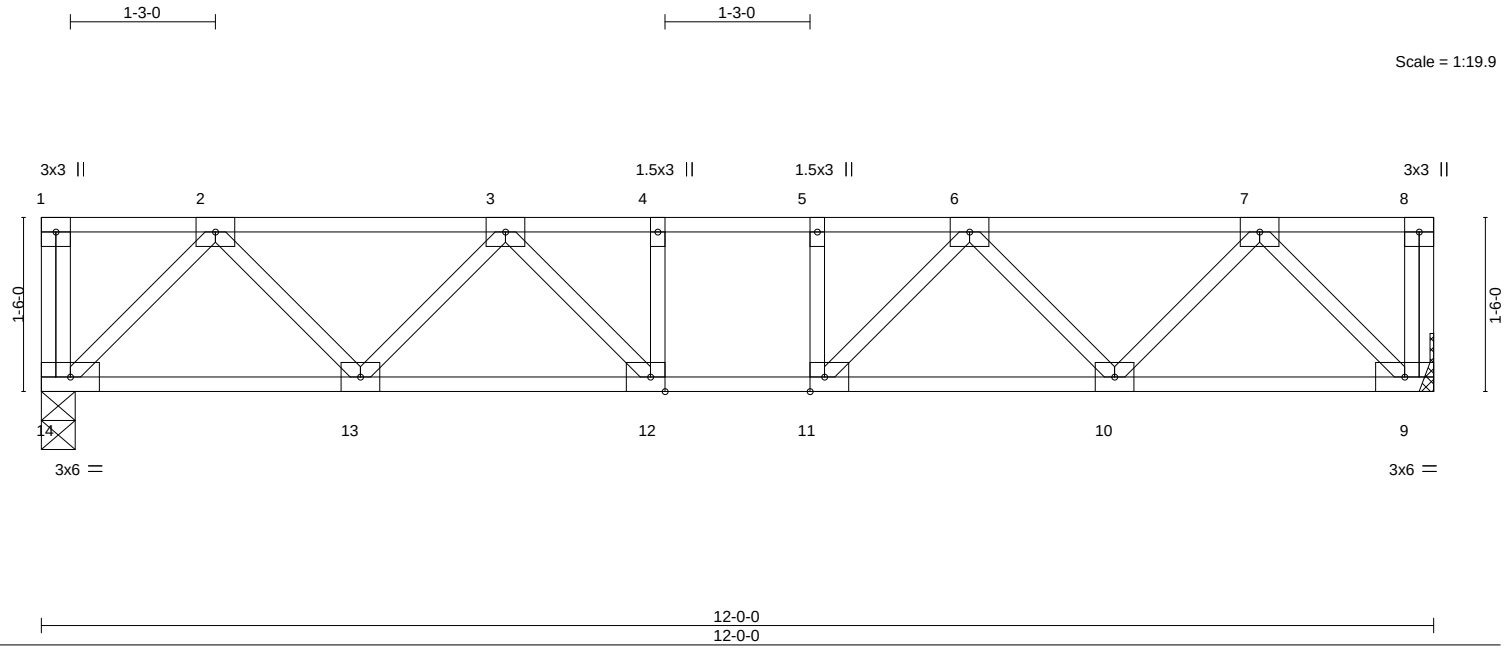

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=764(LC 1), 9=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1104/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1104/0
BOT CHORD 13-14=0/708, 12-13=0/1473, 11-12=0/1615, 10-11=0/1473, 9-10=0/708
WEBS 7-9=-1001/0, 2-14=-1001/0, 7-10=0/589, 2-13=0/589, 6-10=-548/0, 3-13=-548/0, 6-11=0/360, 3-12=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F55	Floor	5	1	I50651388
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:06 2022 Page 1
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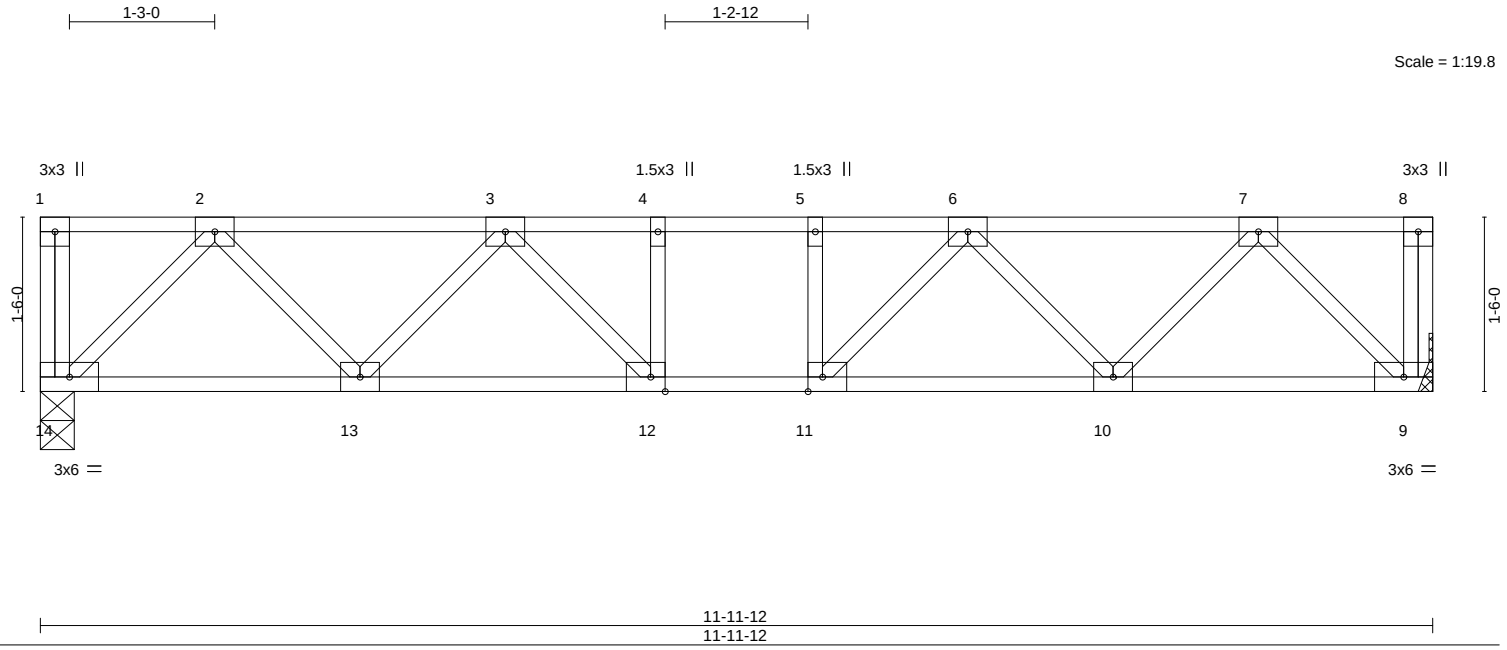

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=762(LC 1), 9=762(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1101/0, 3-4=-1609/0, 4-5=-1609/0, 5-6=-1609/0, 6-7=-1101/0
BOT CHORD 13-14=0/706, 12-13=0/1469, 11-12=0/1609, 10-11=0/1469, 9-10=0/706
WEBS 7-9=-999/0, 2-14=-999/0, 7-10=0/587, 2-13=0/587, 6-10=-547/0, 3-13=-547/0, 6-11=0/357, 3-12=0/357

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F56	Floor	9	1	I50651389
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:06 2022 Page 1
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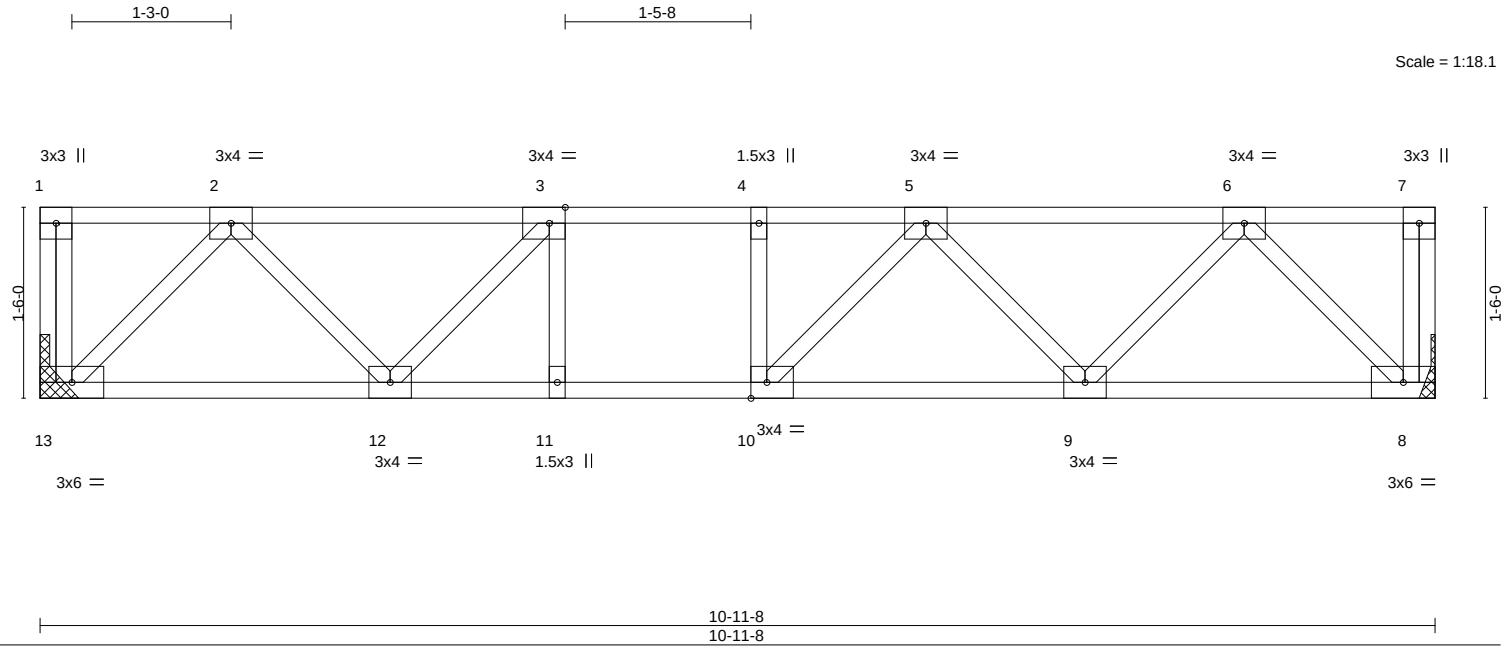

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=Mechanical
Max Grav 13=696(LC 1), 8=696(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-975/0, 3-4=-1327/0, 4-5=-1327/0, 5-6=-979/0
BOT CHORD 12-13=0/635, 11-12=0/1327, 10-11=0/1327, 9-10=0/1282, 8-9=0/641
WEBS 6-8=-906/0, 2-13=-898/0, 6-9=0/504, 2-12=0/505, 5-9=-450/0, 3-12=-517/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F57	Floor	6	1	I50651390
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:08 2022 Page 1
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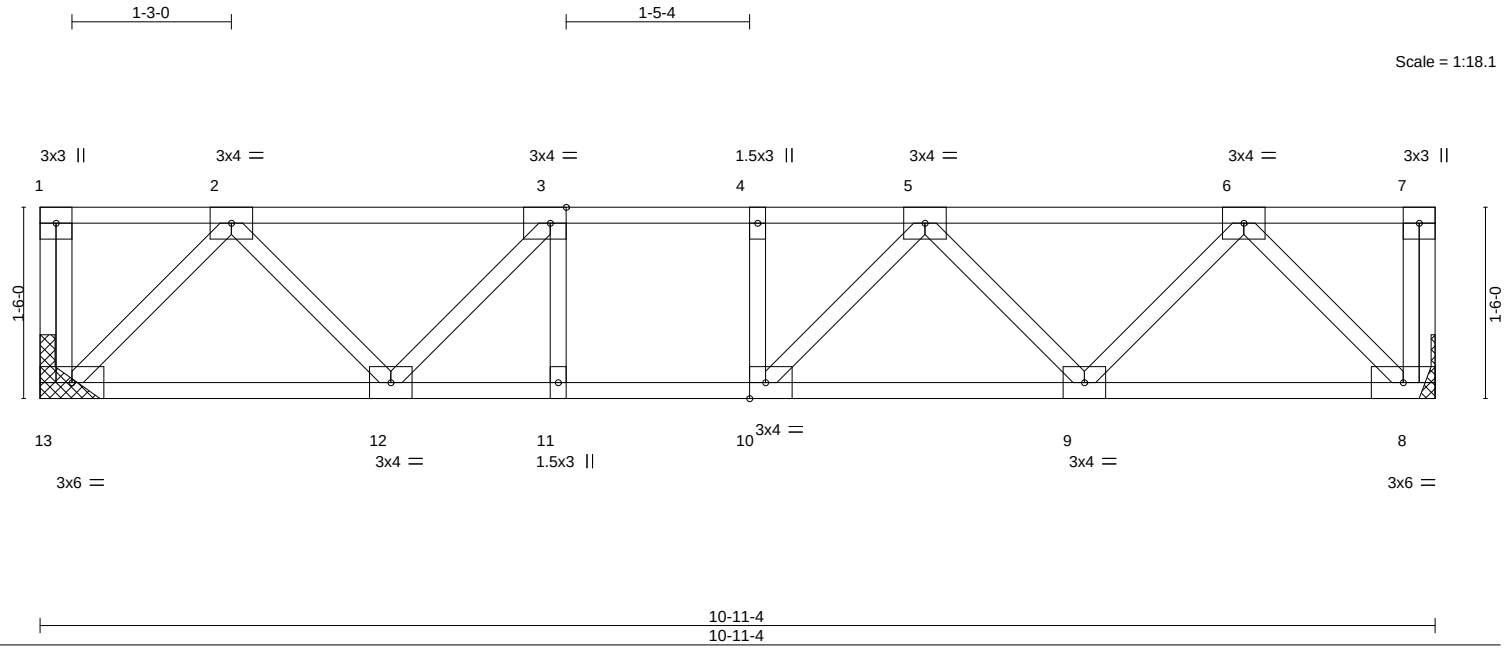

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=Mechanical
Max Grav 13=695(LC 1), 8=695(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-973/0, 3-4=-1322/0, 4-5=-1322/0, 5-6=-977/0
BOT CHORD 12-13=0/634, 11-12=0/1322, 10-11=0/1322, 9-10=0/1278, 8-9=0/639
WEBS 6-8=-904/0, 2-13=-897/0, 6-9=0/502, 2-12=0/503, 5-9=-449/0, 3-12=-514/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F58	Floor	7	1	I50651391
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:08 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-2Y5Xtstw0MpNsQypPssFawG6xE1c39RemUSZdezd01b

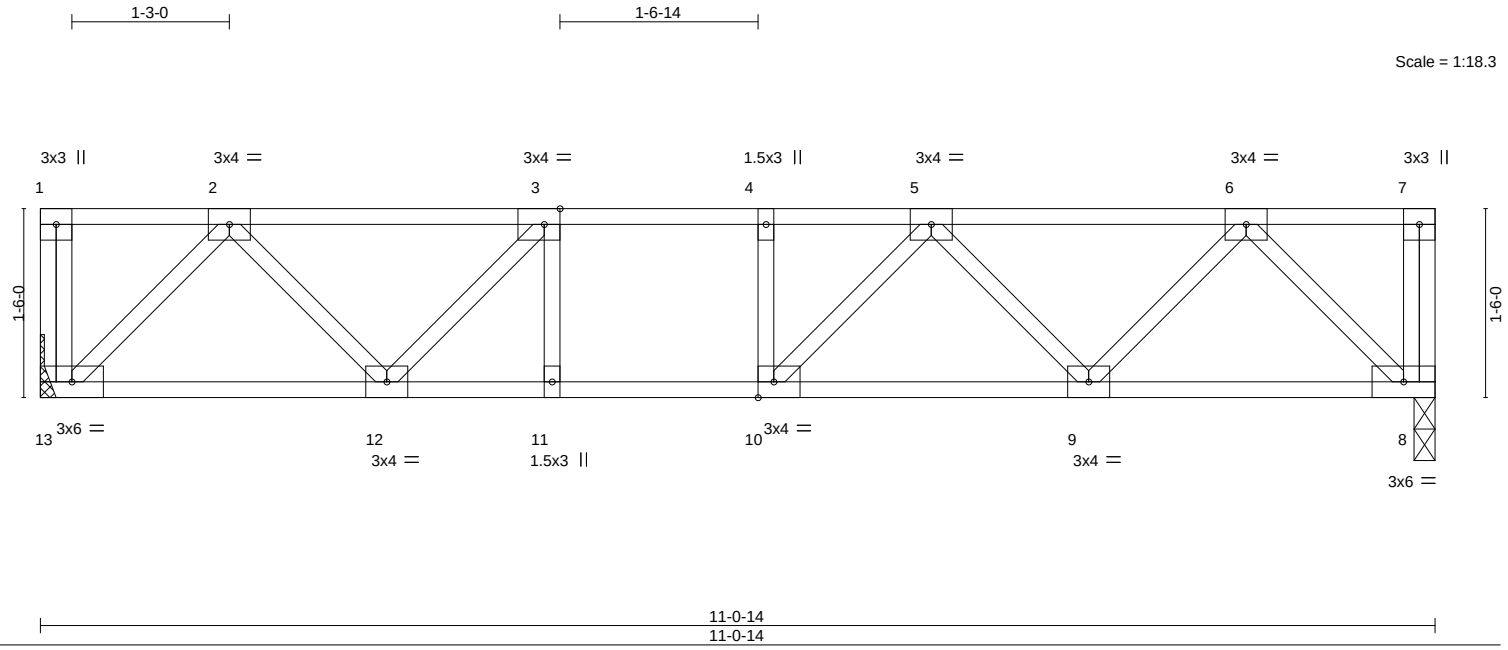

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-2-0
Max Grav 13=703(LC 1), 8=703(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-990/0, 3-4=-1353/0, 4-5=-1353/0, 5-6=-994/0
BOT CHORD 12-13=0/642, 11-12=0/1353, 10-11=0/1353, 9-10=0/1302, 8-9=0/648
WEBS 6-8=-917/0, 2-13=-907/0, 6-9=0/514, 2-12=0/518, 5-9=-459/0, 3-12=-536/0, 5-10=-62/258

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F59	Floor	6	1	I50651392
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:09 2022 Page 1
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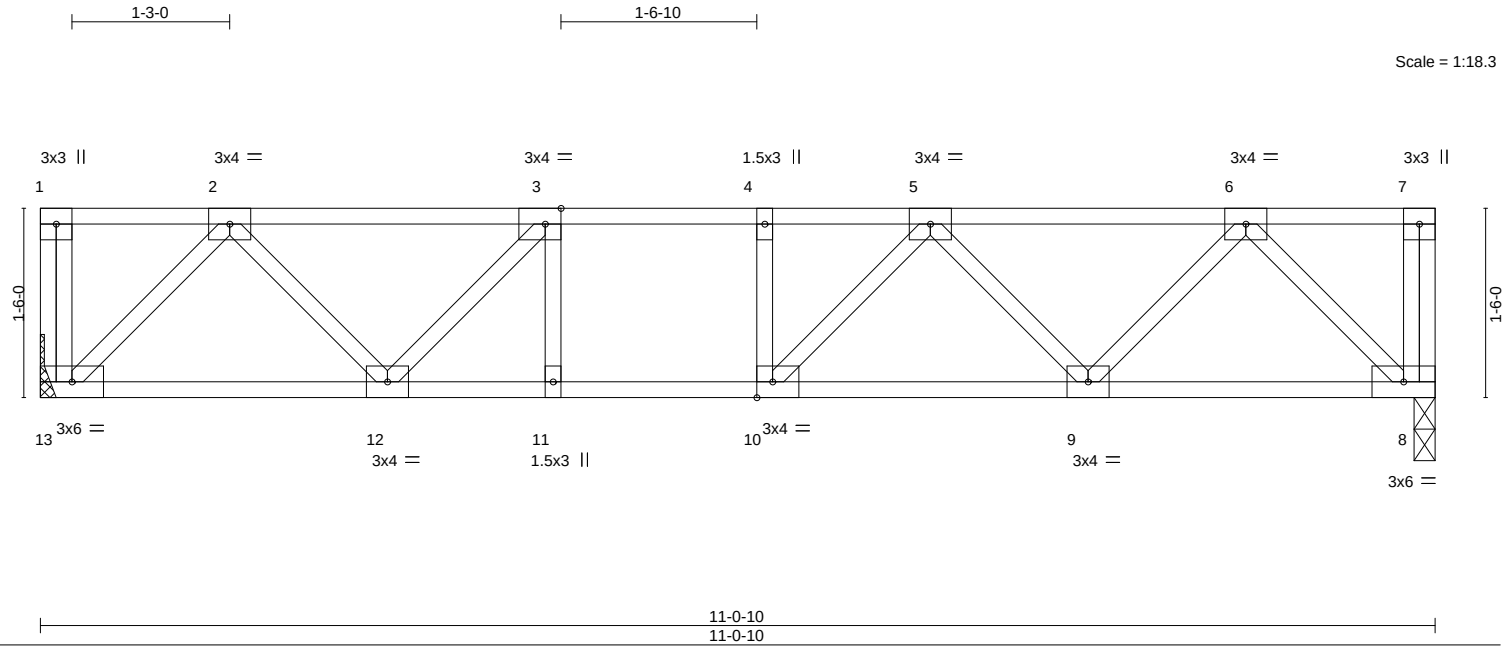

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-2-0
Max Grav 13=702(LC 1), 8=702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-987/0, 3-4=-1348/0, 4-5=-1348/0, 5-6=-991/0
BOT CHORD 12-13=0/640, 11-12=0/1348, 10-11=0/1348, 9-10=0/1299, 8-9=0/647
WEBS 6-8=-915/0, 2-13=-906/0, 6-9=0/512, 2-12=0/515, 5-9=-457/0, 3-12=-532/0, 5-10=-63/256

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F60	Floor	9	1	I50651393
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:11 2022 Page 1
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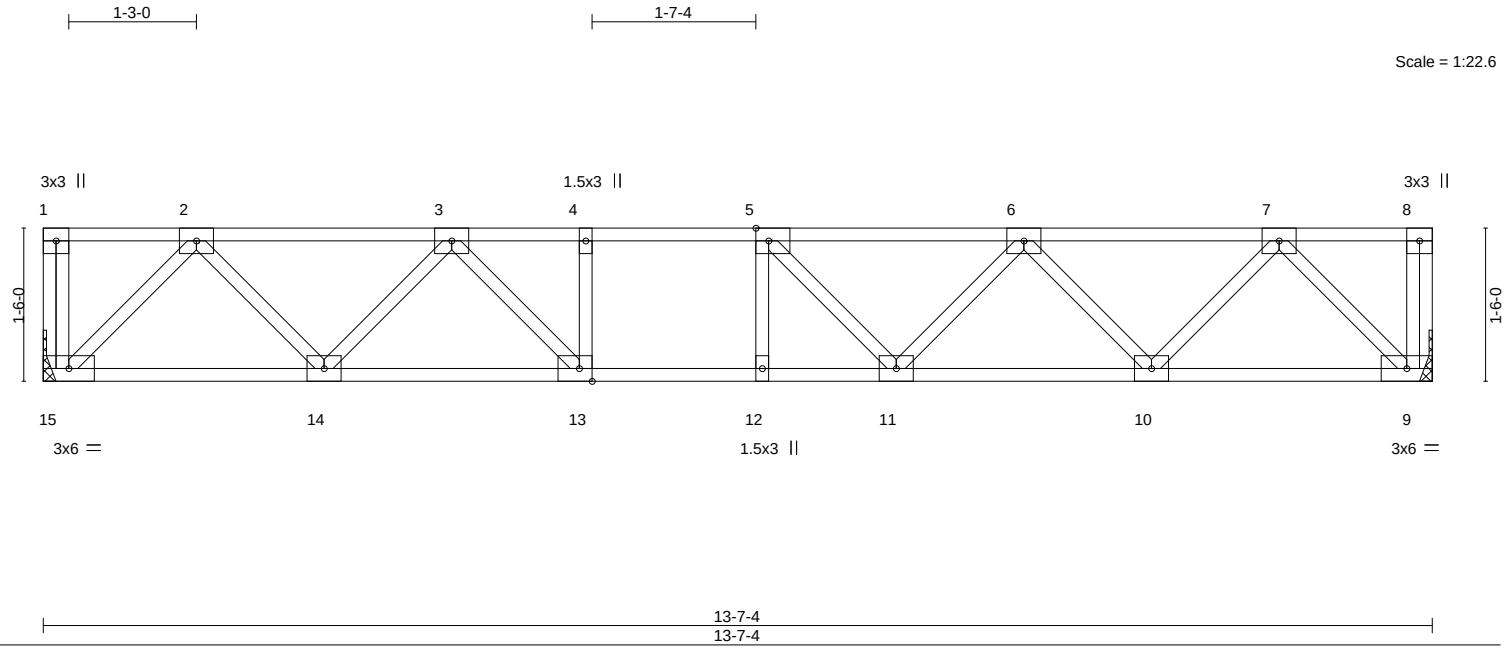

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.15	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 75 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=Mechanical
Max Grav 15=868(LC 1), 9=868(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1292/0, 3-4=-2072/0, 4-5=-2072/0, 5-6=-1961/0, 6-7=-1308/0
BOT CHORD 14-15=0/810, 13-14=0/1771, 12-13=0/2072, 11-12=0/2072, 10-11=0/1790, 9-10=0/804
WEBS 7-9=-1137/0, 2-15=-1145/0, 7-10=0/749, 2-14=0/718, 6-10=-718/0, 3-14=-711/0, 6-11=0/321, 3-13=0/578, 5-11=-329/22, 4-13=-262/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F61	Floor	6	1	I50651394
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:11 2022 Page 1
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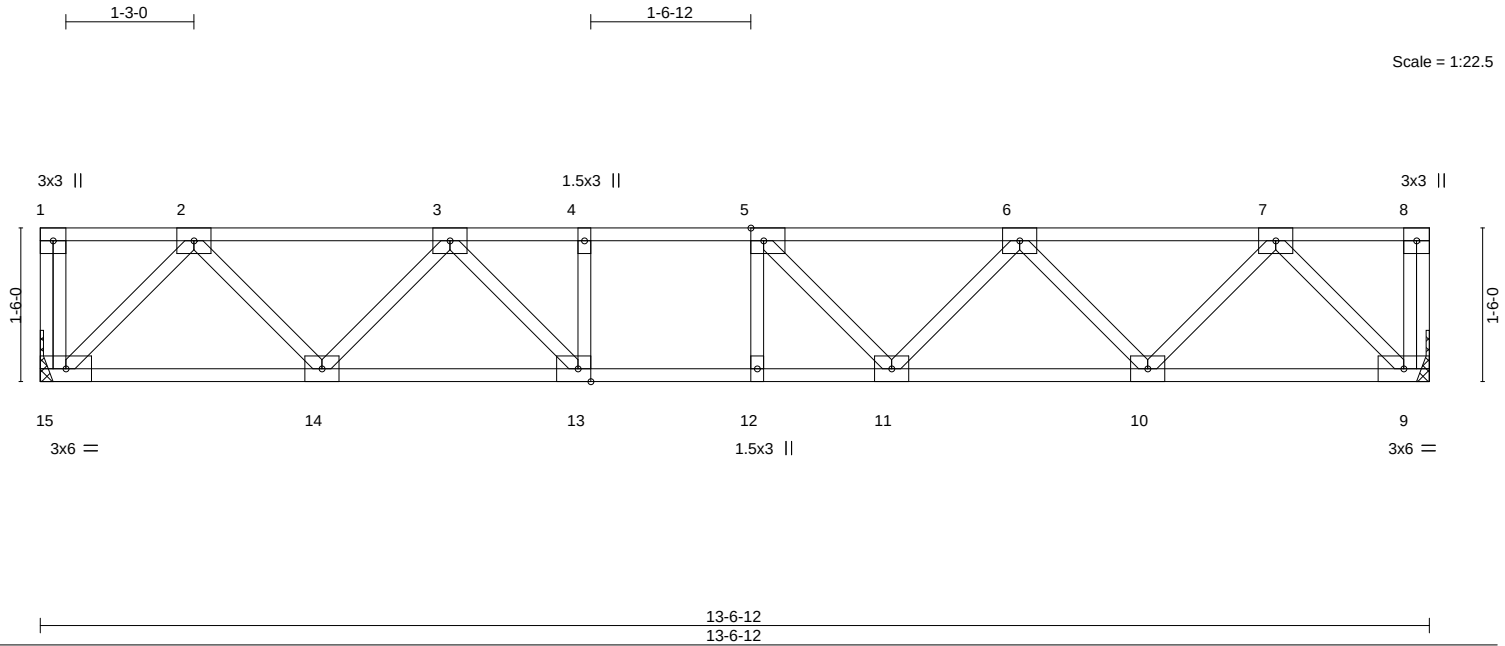

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 75 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 15=Mechanical, 9=Mechanical
Max Grav 15=865(LC 1), 9=865(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1288/0, 3-4=-2060/0, 4-5=-2060/0, 5-6=-1950/0, 6-7=-1303/0
BOT CHORD 14-15=0/807, 13-14=0/1762, 12-13=0/2060, 11-12=0/2060, 10-11=0/1783, 9-10=0/801
WEBS 7-9=-1133/0, 2-15=-1142/0, 7-10=0/746, 2-14=0/714, 6-10=-714/0, 3-14=-705/0, 6-11=0/318, 3-13=0/575, 5-11=-323/20, 4-13=-268/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F62	Floor Girder	1	1	I50651395
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:12 2022 Page 1
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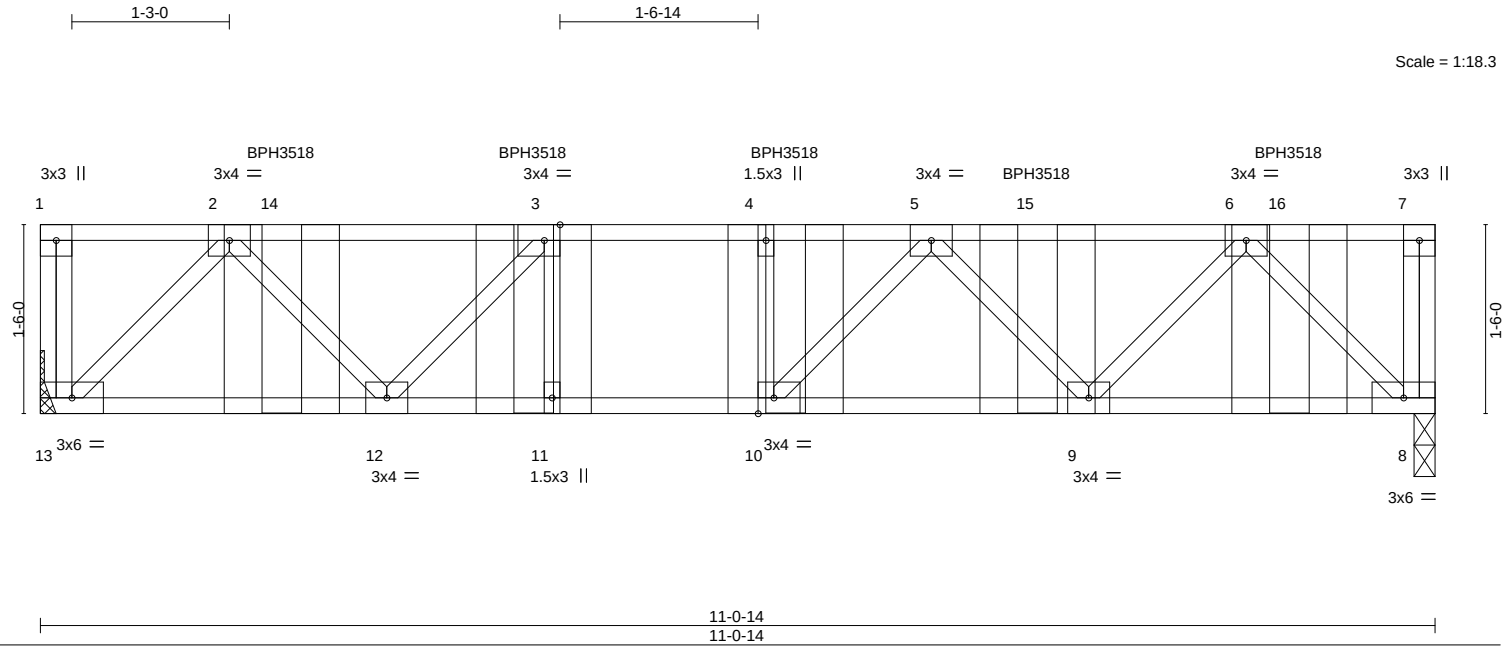

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.13	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-13,7-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-2-0
Max Grav 13=970(LC 1), 8=1022(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1422/0, 3-4=-1960/0, 4-5=-1960/0, 5-6=-1438/0
BOT CHORD 12-13=0/919, 11-12=0/1960, 10-11=0/1960, 9-10=0/1879, 8-9=0/954
WEBS 6-8=-1350/0, 2-13=-1299/0, 6-9=0/719, 2-12=0/748, 5-9=-656/0, 3-12=-795/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-0 from the left end to 9-11-0 to connect truss(es) to back face of top chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-13=-10, 1-7=-120
Concentrated Loads (lb)
Vert: 3=-114(B) 4=-114(B) 14=-114(B) 15=-114(B) 16=-129(B)

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F63	Floor	5	1	I50651396
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:13 2022 Page 1
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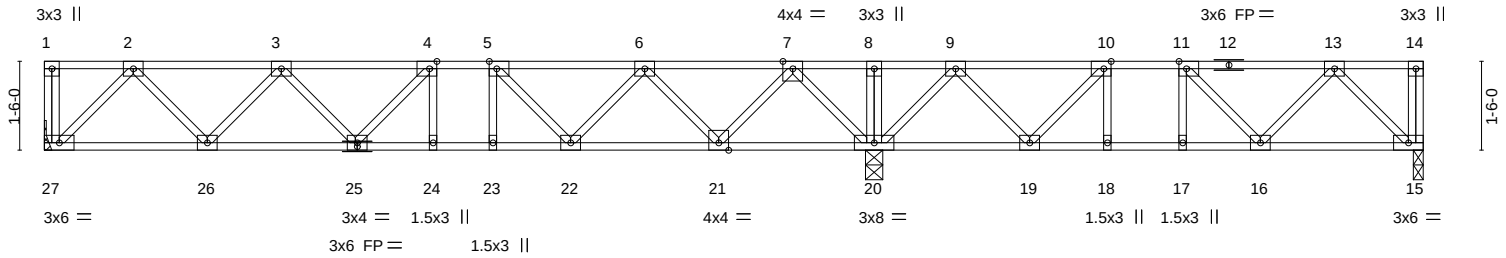

14-0-2 23-3-6
14-0-2 9-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.11	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 130 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 27=Mechanical, 15=0-2-0, 20=0-3-8
Max Grav 27=809(LC 10), 15=503(LC 4), 20=1789(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1195/0, 3-4=-1739/0, 4-5=-1817/0, 5-6=-1494/0, 6-7=-602/0, 7-8=0/1243, 8-9=0/1243, 9-10=-342/416, 10-11=-696/120, 11-13=-601/0
BOT CHORD 26-27=0/745, 25-26=0/1621, 24-25=0/1817, 23-24=0/1817, 22-23=0/1817, 21-22=0/1192, 20-21=-292/0, 19-20=-664/18, 18-19=-120/696, 17-18=-120/696, 16-17=-120/696, 15-16=0/458
WEBS 2-27=-1054/0, 7-20=-1345/0, 2-26=0/668, 7-21=0/951, 3-26=-633/0, 6-21=-916/0, 6-22=0/494, 5-22=-551/0, 13-15=-648/0, 9-20=-967/0, 9-19=0/606, 10-19=-684/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F64	Floor	1	1	I50651397
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:14 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-tiSo7vxhbCZWaLPzl6zfqBWB1e8JTsFX9QvtrIzd01V

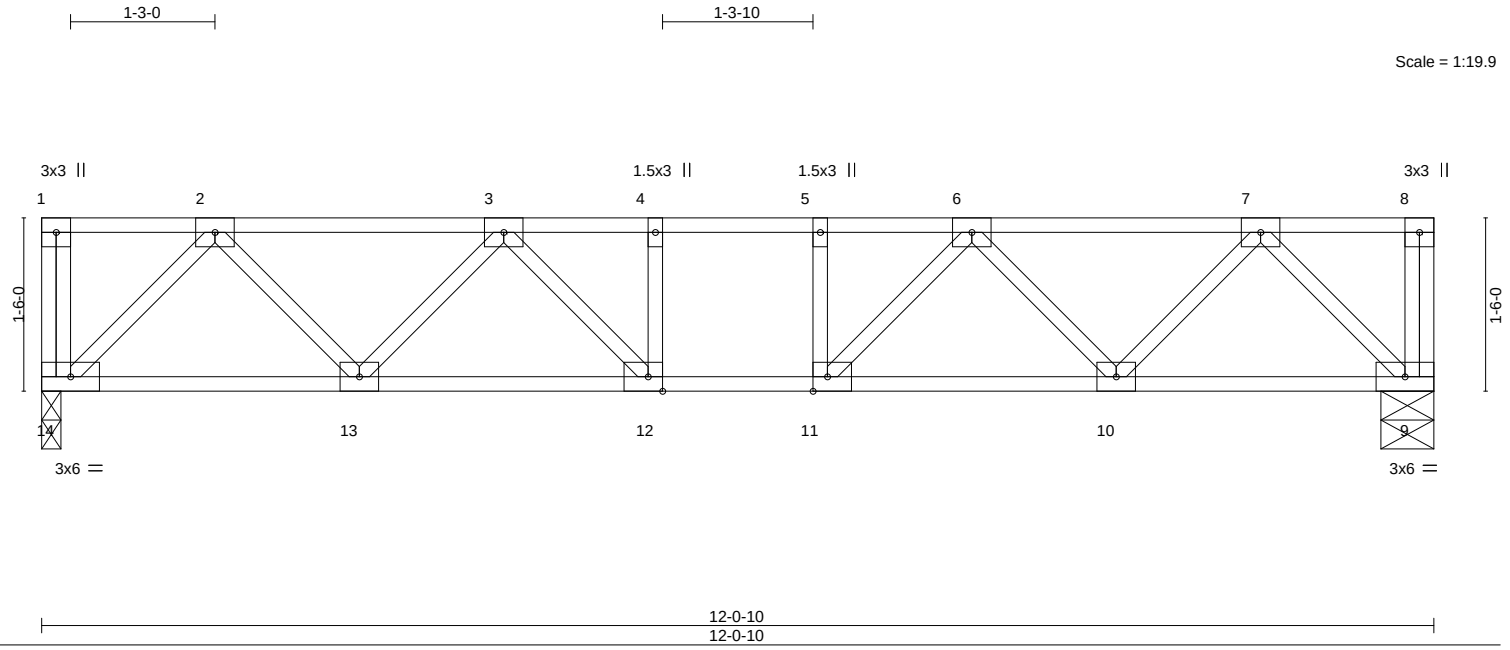

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-5-8
Max Grav 14=613(LC 1), 9=613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-888/0, 3-4=-1302/0, 4-5=-1302/0, 5-6=-1302/0, 6-7=-888/0
BOT CHORD 13-14=0/569, 12-13=0/1185, 11-12=0/1302, 10-11=0/1185, 9-10=0/569
WEBS 7-9=-804/0, 2-14=-804/0, 7-10=0/474, 2-13=0/474, 6-10=-442/0, 3-13=-442/0, 6-11=0/294, 3-12=0/294

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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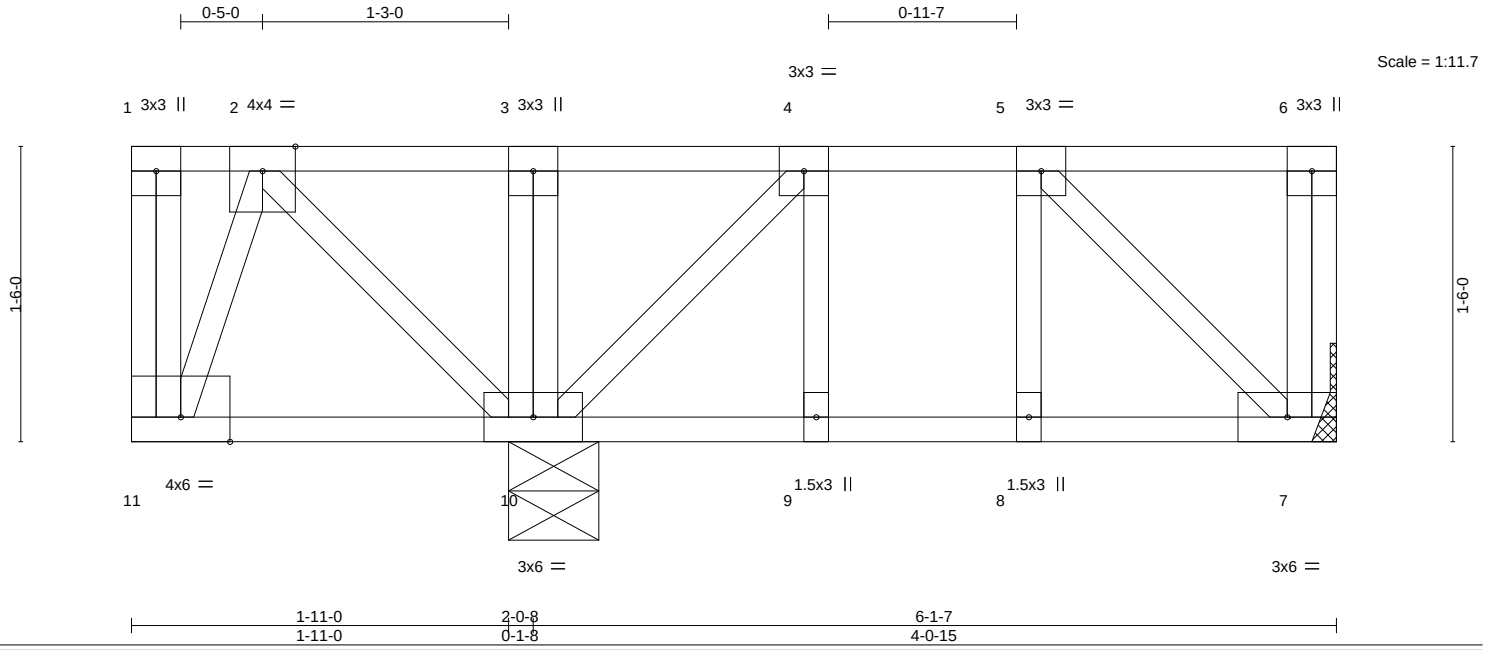
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F65	Floor	4	1	I50651398
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:15 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Lu0ALFyJMWhNCV_AJqUuMO3MN2YkCLigN4fQNkzd01U



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 10=0-5-8
Max Grav 7=234(LC 4), 10=566(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-353/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 9,2022

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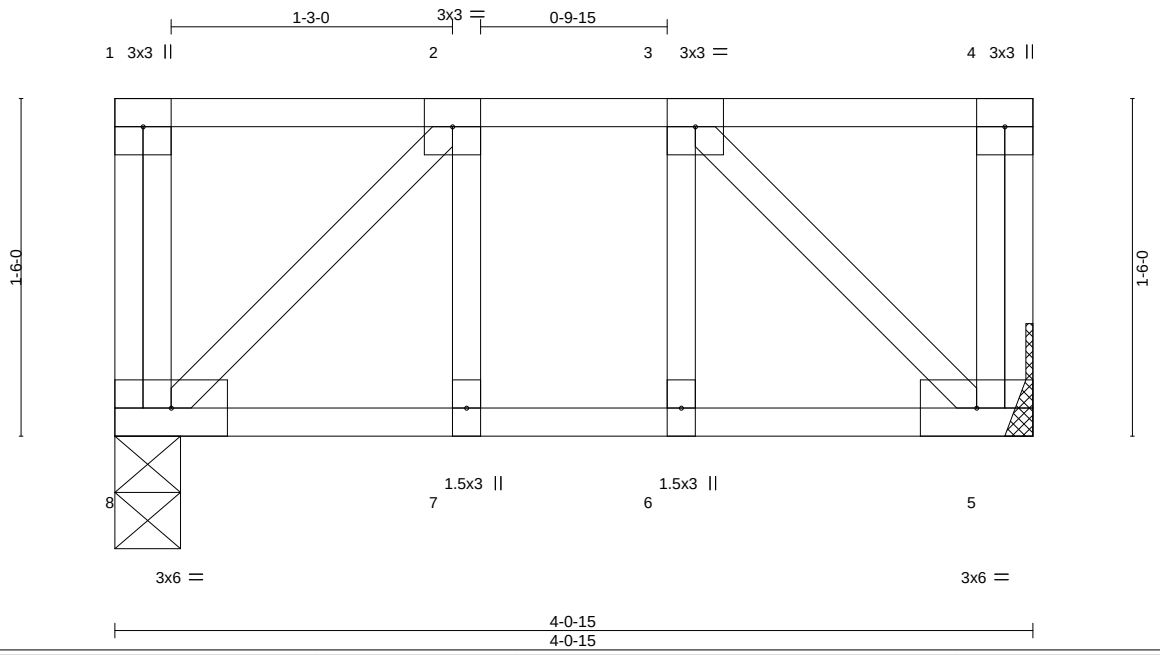
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F66	Floor	1	1	I50651399
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:16 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-p5aYYbzx7qpEqeZMtX?7vcbY0SuQxpMpckO_vAzd01T



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 29 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Grav 8=249(LC 1), 5=249(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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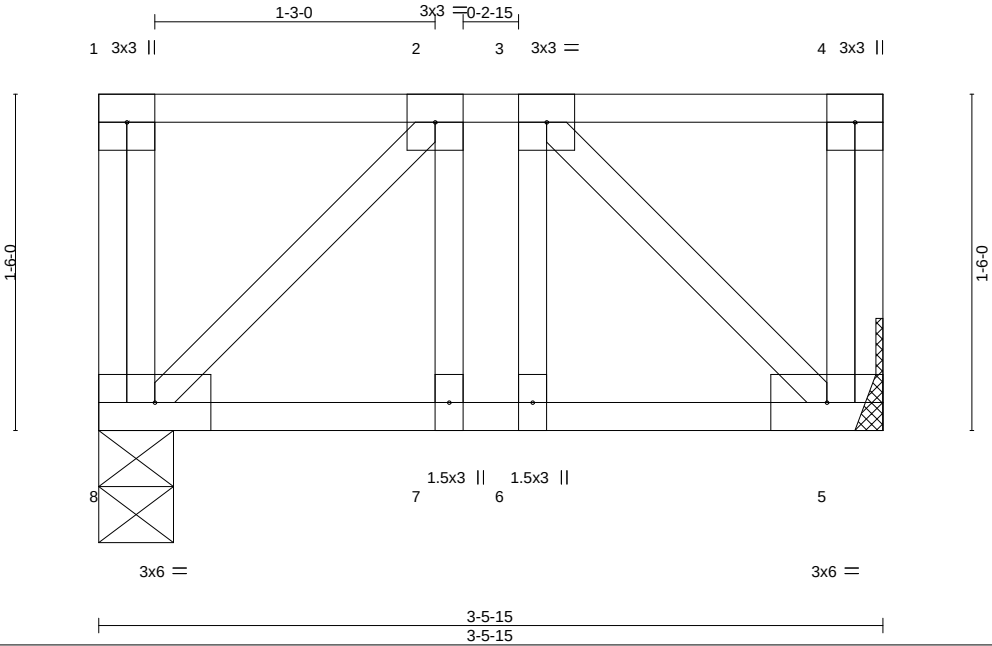
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F67	Floor	3	1	I50651400
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:18 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-lTiIzH_BfR3y3yjl_y1b_1hufGaIPj2632t4_3zd01R



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 27 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 5=Mechanical
Max Grav 8=211(LC 1), 5=211(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F68	Floor	4	1	I50651401
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:19 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-EfGhBd?qQlBph6IxYgYqXEDw2frg868GlideWVzd01Q

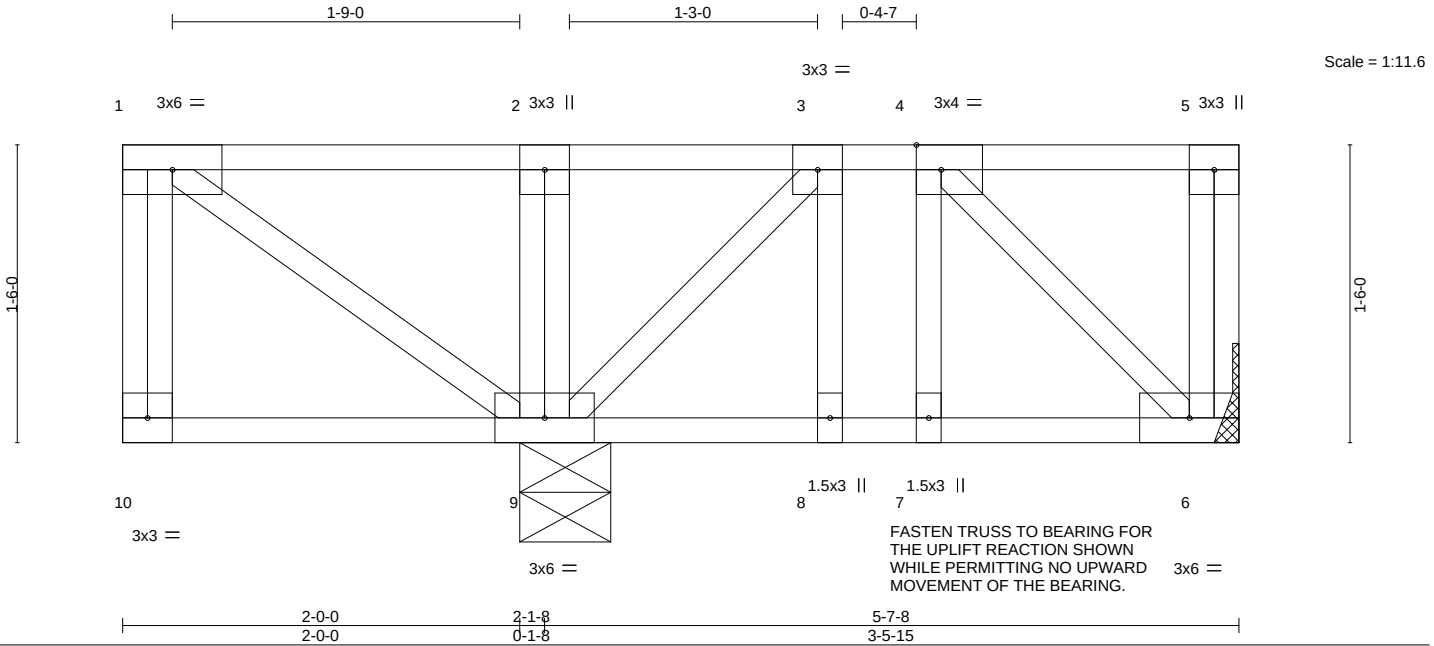

Plate Offsets (X,Y)-- [4:0-1-8,Edge]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	0.01	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.

REACTIONS. (size) 6=Mechanical, 9=0-5-8
Max Uplift 6=-345(LC 3)
Max Grav 6=55(LC 4), 9=1508(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1033, 2-3=0/1031, 3-4=0/472
BOT CHORD 8-9=-472/0, 7-8=-472/0, 6-7=-472/0
WEBS 1-9=-1255/0, 3-9=-886/0, 3-8=0/305, 4-6=0/653, 4-7=-282/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 6.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 600 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-600(F)

March 9,2022

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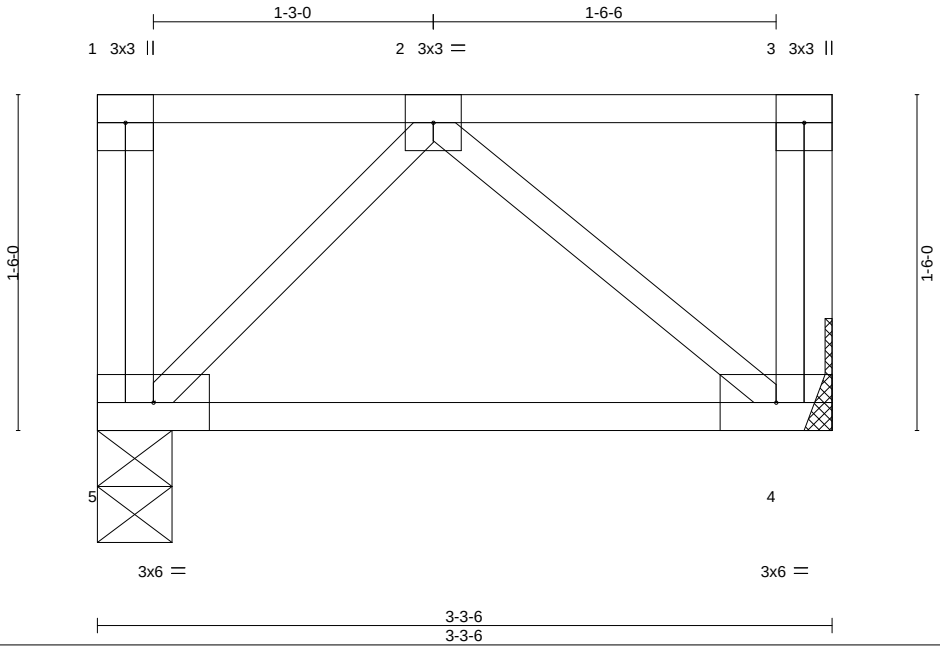
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F69	Floor	16	1	I50651402
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:20 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-isp3Oz0SB2KgIGs76N433SmDd3G2tdbPXMMB2xzd01P



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=197(LC 1), 4=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F70	Floor	8	1	I50651403
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:22 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-eExppf1ijgaOYa0WDo6X8trSYtuyLTqi_grI7qzd01N

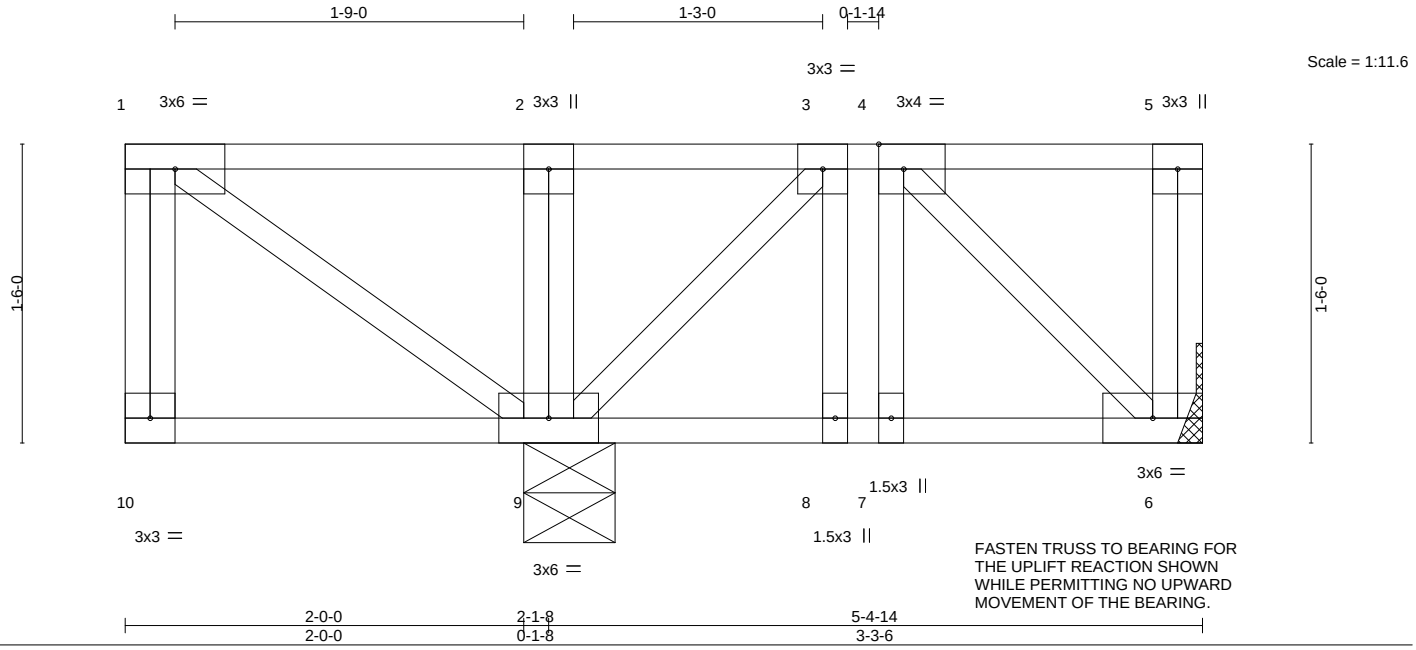

Plate Offsets (X,Y)-- [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.01	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	0.01	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.

REACTIONS. (size) 6=Mechanical, 9=0-5-8
Max Uplift 6=-379(LC 3)
Max Grav 6=29(LC 4), 9=1523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1026, 2-3=0/1025, 3-4=0/479
BOT CHORD 8-9=-479/0, 7-8=-479/0, 6-7=-479/0
WEBS 1-9=-1247/0, 3-9=-858/0, 3-8=0/307, 4-6=0/662, 4-7=-290/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 6.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 600 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-600(F)

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F71	Floor	1	1	I50651404
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:22 2022 Page 1
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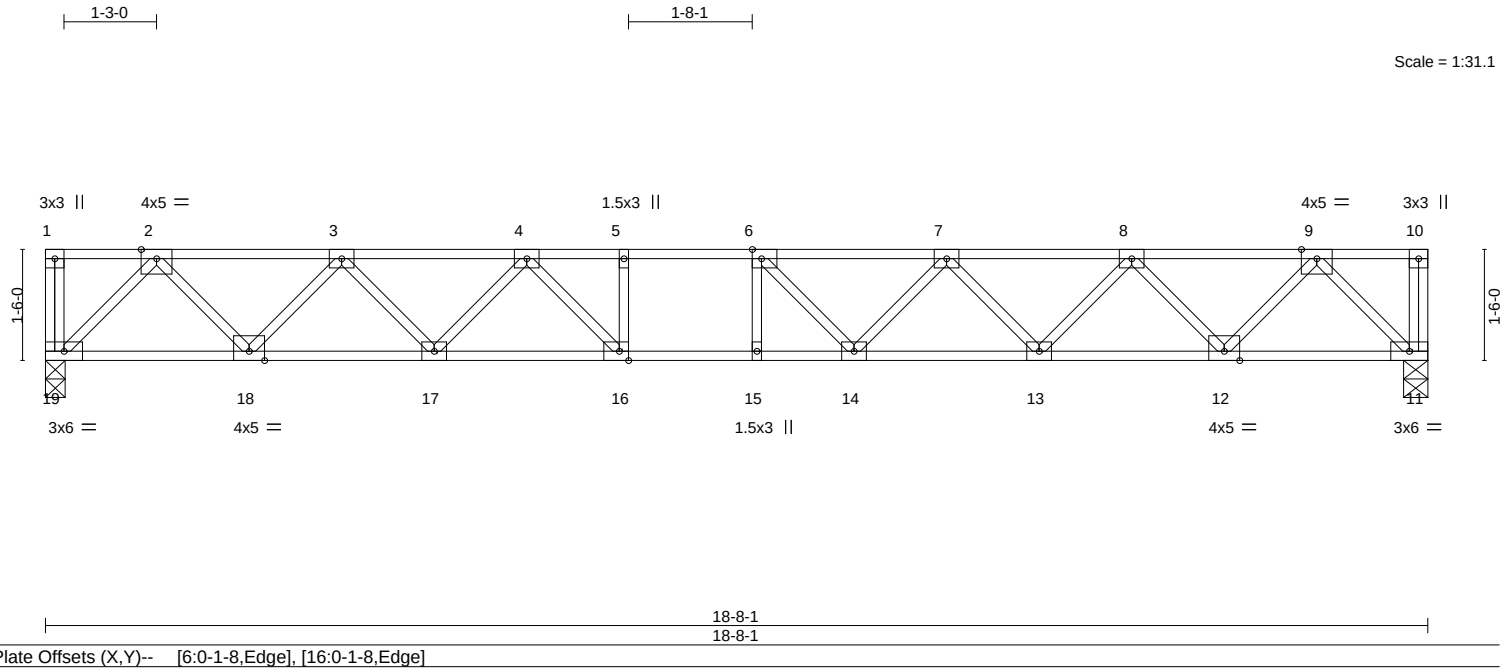

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.22	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.35	14-15	>629	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 101 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 19=0-3-3, 11=0-3-15
Max Grav 19=1197(LC 1), 11=1197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1936/0, 3-4=-3178/0, 4-5=-3967/0, 5-6=-3967/0, 6-7=-3854/0, 7-8=-3195/0, 8-9=-1932/0
BOT CHORD 18-19=0/1136, 17-18=0/2704, 16-17=0/3657, 15-16=0/3967, 14-15=0/3967, 13-14=0/3674, 12-13=0/2699, 11-12=0/1137
WEBS 9-11=-1608/0, 2-19=-1606/0, 9-12=0/1181, 2-18=0/1189, 8-12=-1141/0, 3-18=-1142/0, 8-13=0/736, 3-17=0/704, 7-13=-713/0, 4-17=-712/0, 7-14=0/403, 4-16=0/693, 6-14=-455/136, 5-16=-289/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F72	Floor	1	1	I50651405
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:23 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-6RVB0_2KUziE9jbinVdmh4OfEH5i4umrDKbrfGzd01M

1-3-0 1-5-1

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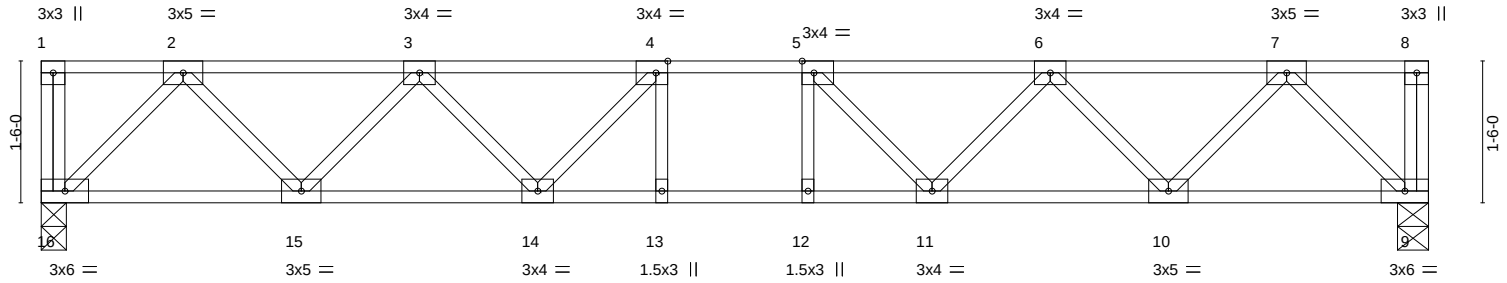

14-8-1
14-8-1

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-3, 9=0-3-15
Max Grav 16=937(LC 1), 9=937(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1440/0, 3-4=-2219/0, 4-5=-2455/0, 5-6=-2219/0, 6-7=-1440/0
BOT CHORD 15-16=0/875, 14-15=0/1977, 13-14=0/2455, 12-13=0/2455, 11-12=0/2455, 10-11=0/1977, 9-10=0/875
WEBS 7-9=-1238/0, 2-16=-1238/0, 7-10=0/839, 2-15=0/839, 6-10=-799/0, 3-15=-799/0, 6-11=0/409, 3-14=0/409, 5-11=-477/0, 4-14=-477/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F73	Floor	1	1	I50651406
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:24 2022 Page 1
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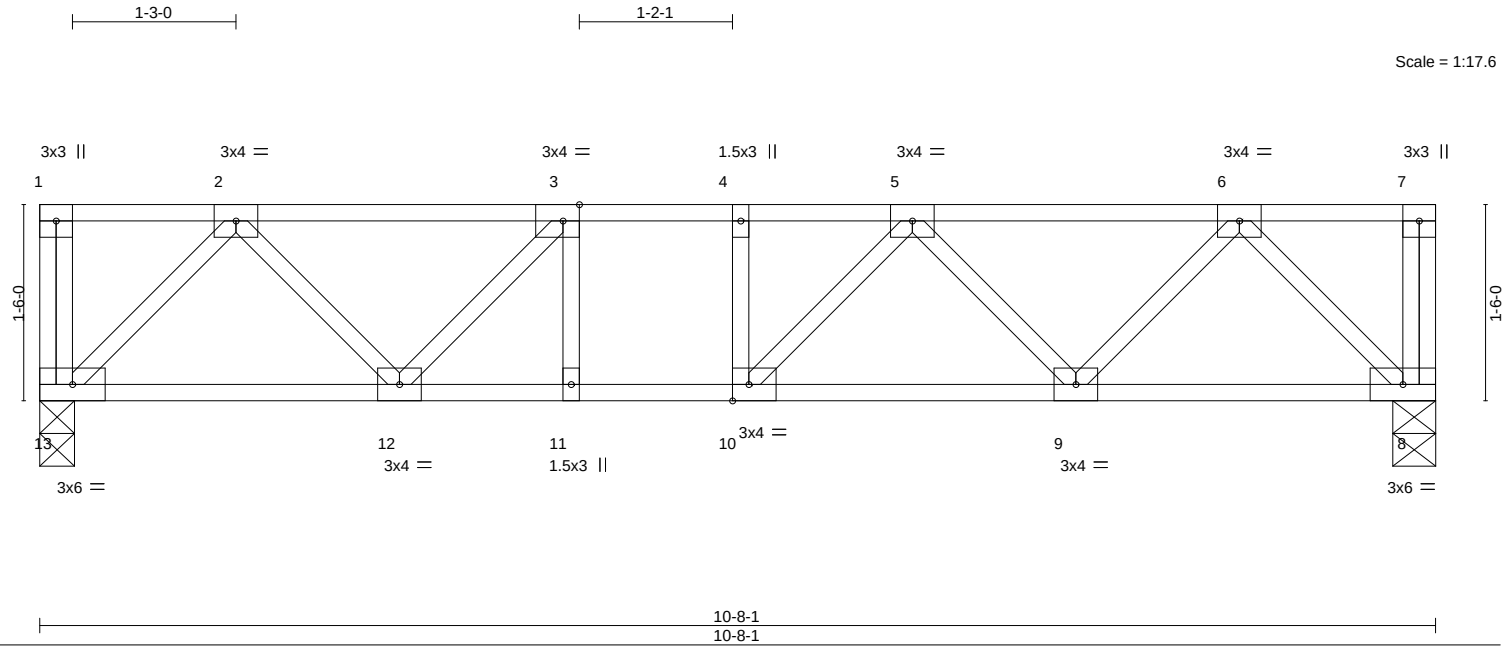

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-3-3, 8=0-3-15
Max Grav 13=677(LC 1), 8=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-939/0, 3-4=-1262/0, 4-5=-1262/0, 5-6=-942/0
BOT CHORD 12-13=0/619, 11-12=0/1262, 10-11=0/1262, 9-10=0/1231, 8-9=0/621
WEBS 6-8=-879/0, 2-13=-875/0, 6-9=0/477, 2-12=0/475, 5-9=-429/0, 3-12=-470/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F74	Floor	1	1	I50651407
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:24 2022 Page 1
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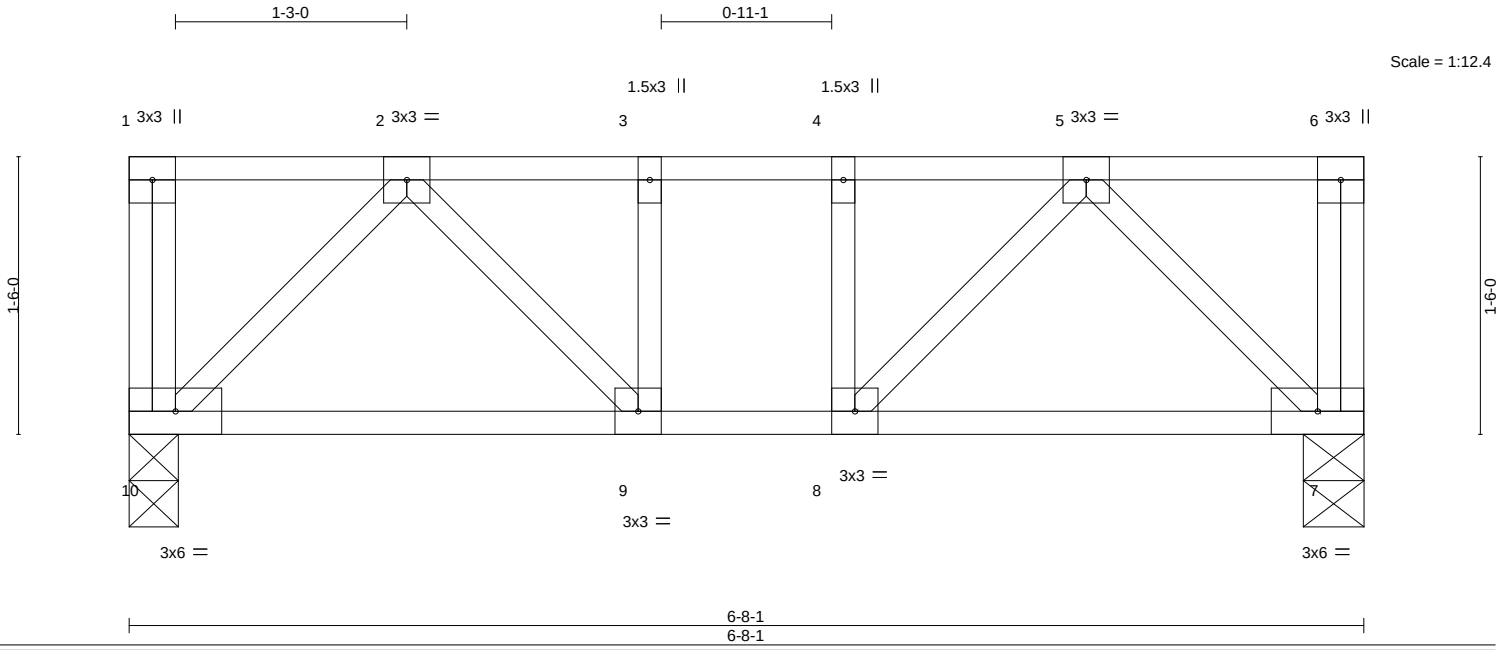

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-3, 7=0-3-15
Max Grav 10=417(LC 1), 7=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-485/0, 3-4=-485/0, 4-5=-485/0
BOT CHORD	9-10=0/340, 8-9=0/485, 7-8=0/340
WEBS	5-7=-480/0, 2-10=-480/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	F75	Floor	3	1	I50651408
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:25 2022 Page 1
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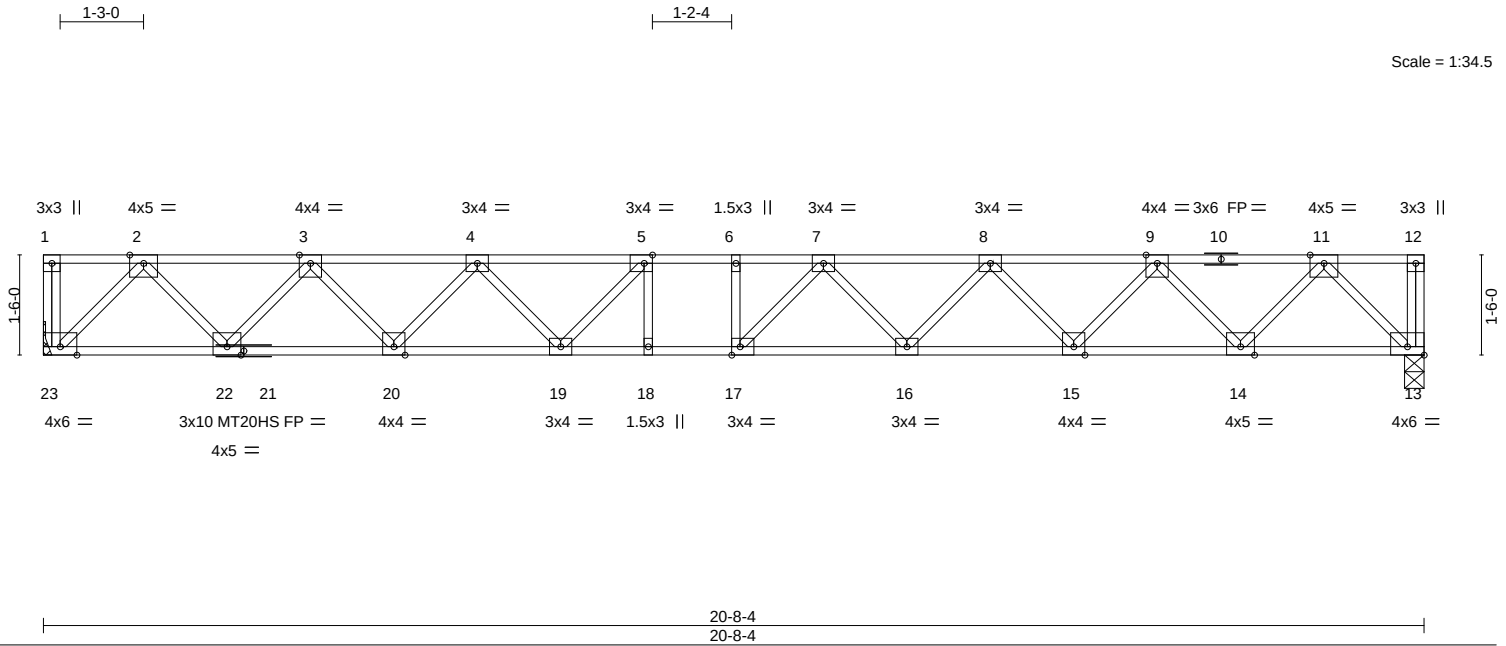

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:Edge,0-1-8], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.29	17	>838	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.48	16-17	>513	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=Mechanical, 13=0-3-8
Max Grav 23=1328(LC 1), 13=1328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2182/0, 3-4=-3681/0, 4-5=-4579/0, 5-6=-4904/0, 6-7=-4904/0, 7-8=-4586/0, 8-9=-3680/0, 9-11=-2182/0
BOT CHORD 22-23=0/1267, 20-22=0/3071, 19-20=0/4268, 18-19=0/4904, 17-18=0/4904, 16-17=0/4868, 15-16=0/4271, 14-15=0/3070, 13-14=0/1267
WEBS 11-13=-1792/0, 2-23=-1791/0, 11-14=0/1360, 2-22=0/1360, 9-14=-1321/0, 3-22=-1322/0, 9-15=0/906, 3-20=0/907, 8-15=-879/0, 4-20=-872/0, 8-16=0/468, 4-19=0/562, 7-16=-460/0, 5-19=-682/0, 7-17=-267/416

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW1	GABLE	1	1	I50651409
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:29 2022 Page 1
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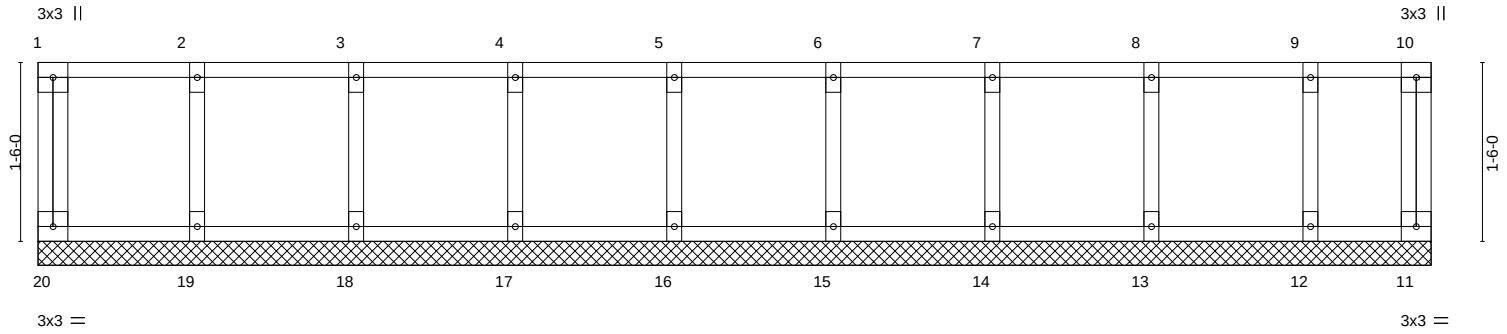

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW2	GABLE	1	1	I50651410
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:37 2022 Page 1
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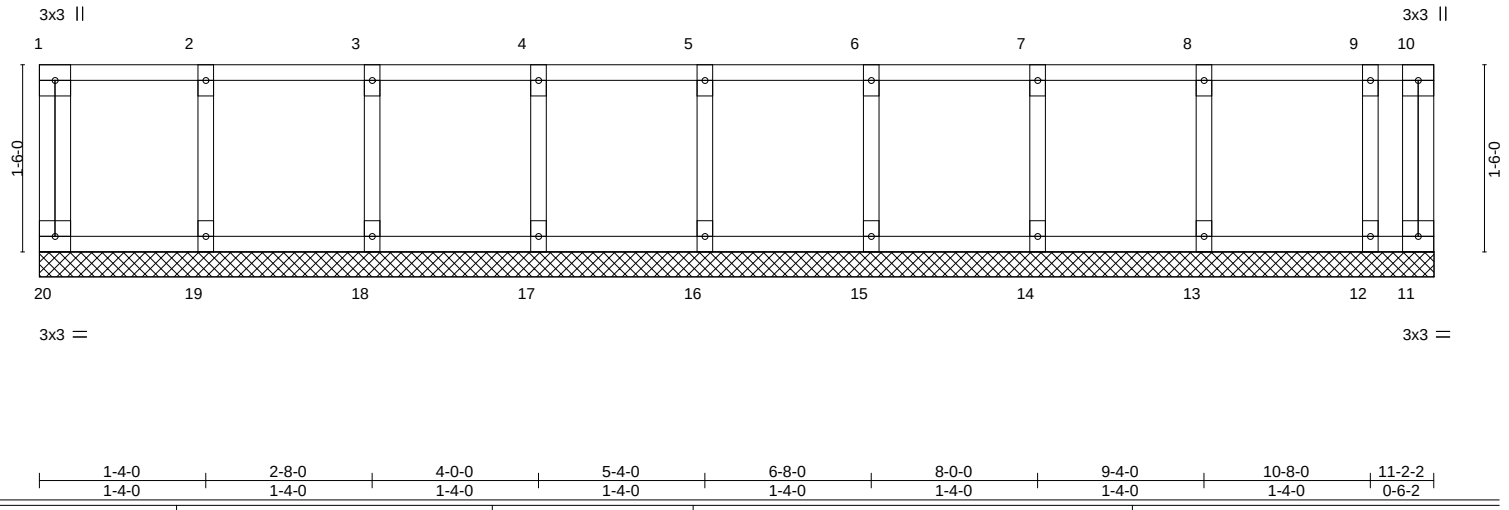

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-2-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-2-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW3	GABLE	1	1	I50651411
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:40 2022 Page 1
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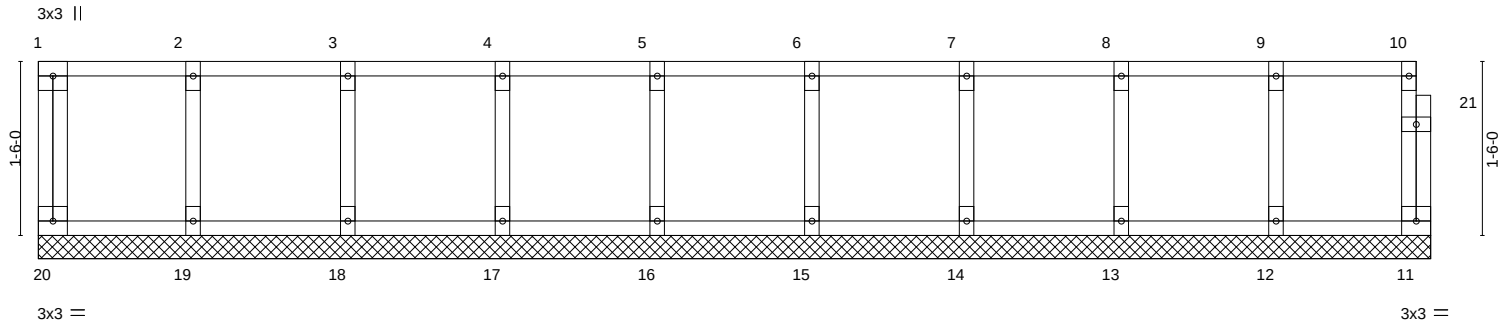

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat) *Except* 11-21: 2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW4	GABLE	1	1	I50651412
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:42 2022 Page 1
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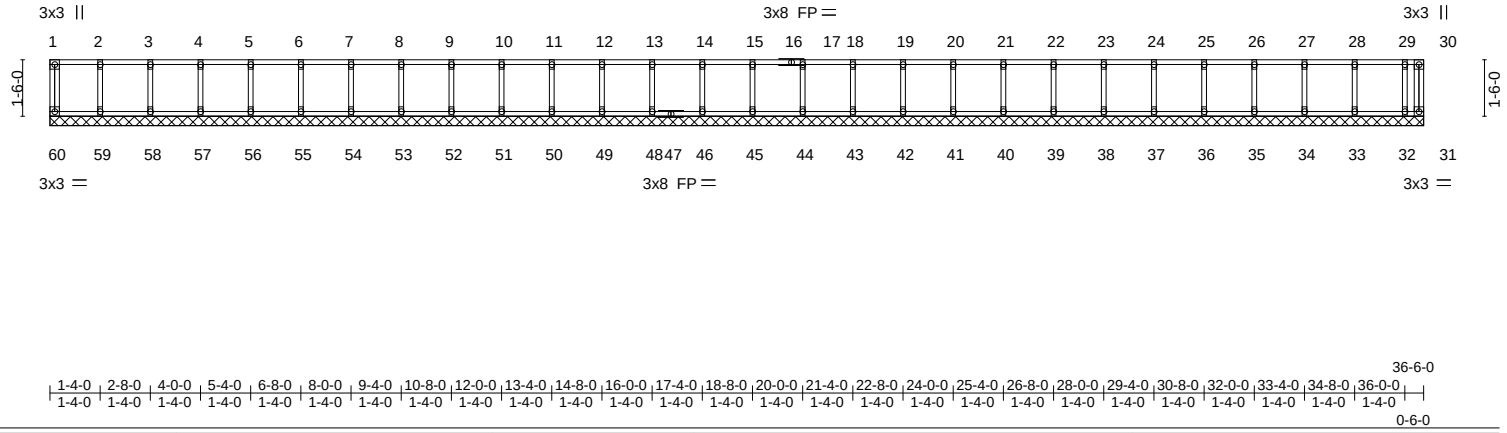

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW5	GABLE	1	1	I50651413
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:43 2022 Page 1
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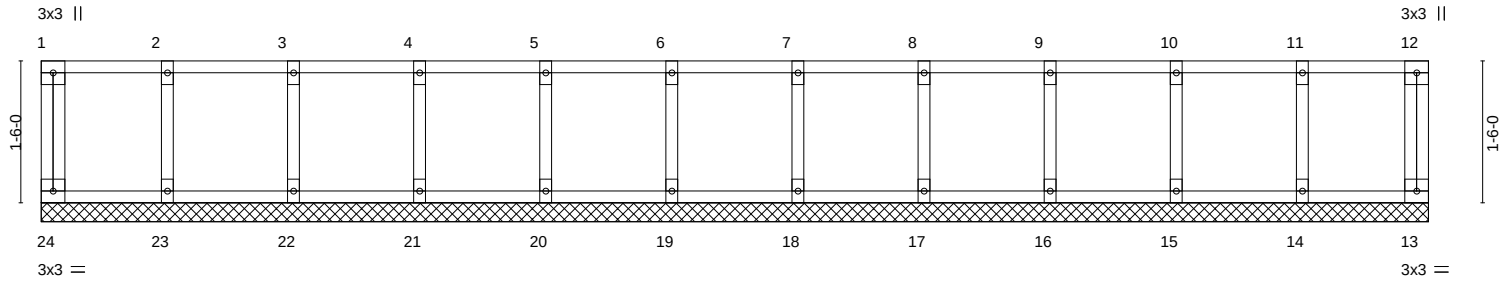

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW6	GABLE	1	1	I50651414
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:43 2022 Page 1
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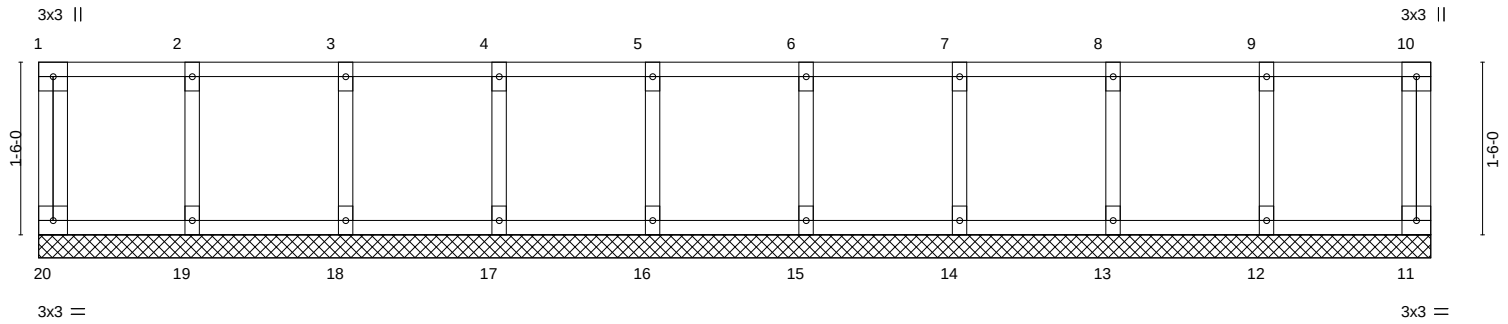

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW7	GABLE	6	1	I50651415
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:45 2022 Page 1
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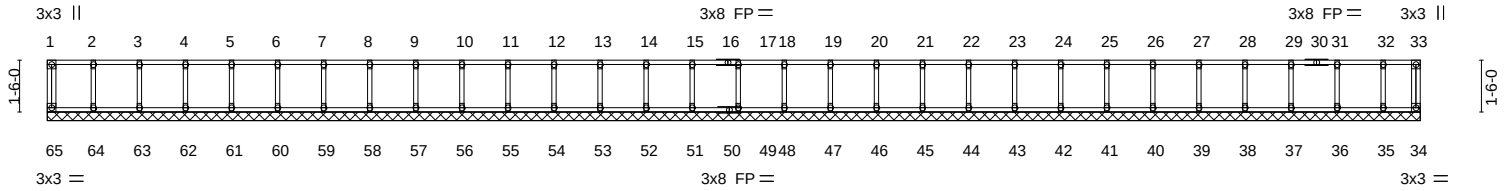

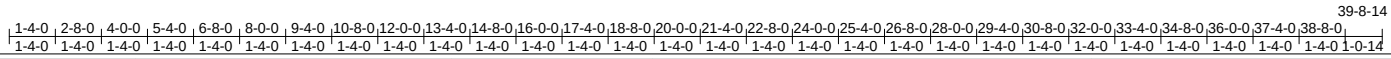

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 180 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 39-8-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 65, 34, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW8	GABLE	1	1	I50651416
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:46 2022 Page 1
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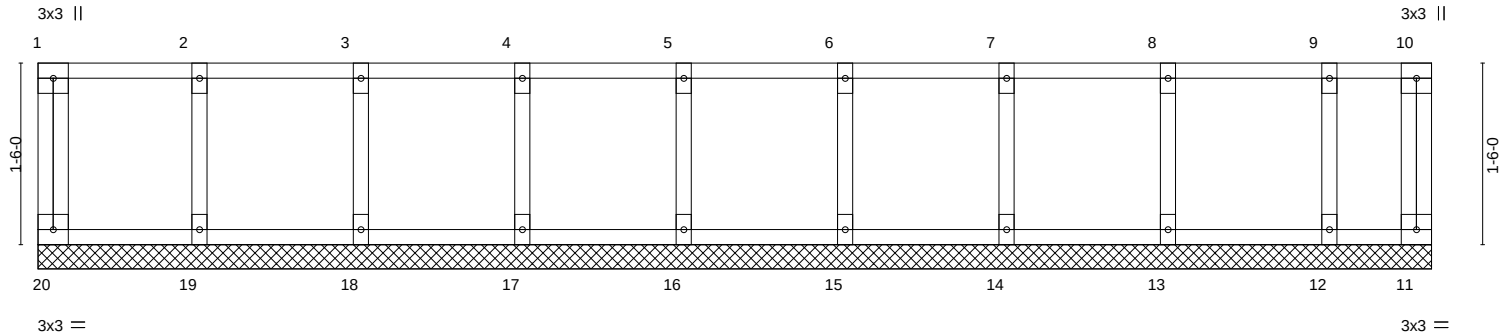

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-6-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW9	GABLE	1	1	I50651417
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:47 2022 Page 1
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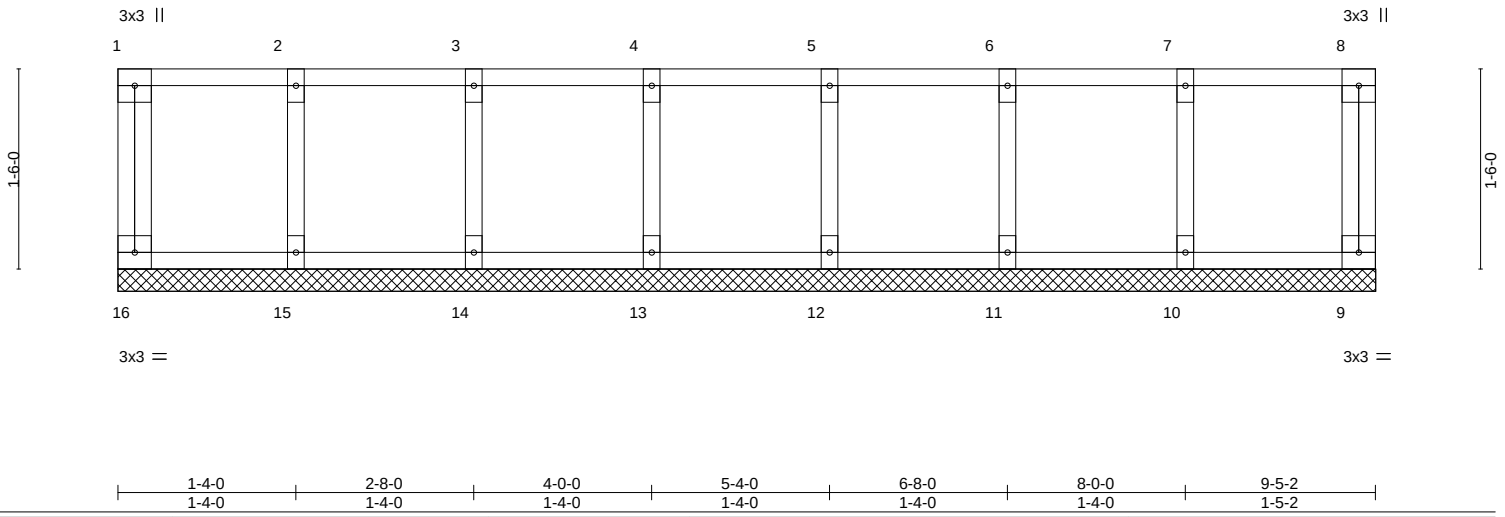

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-5-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-5-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW10	GABLE	1	1	I50651418
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:30 2022 Page 1
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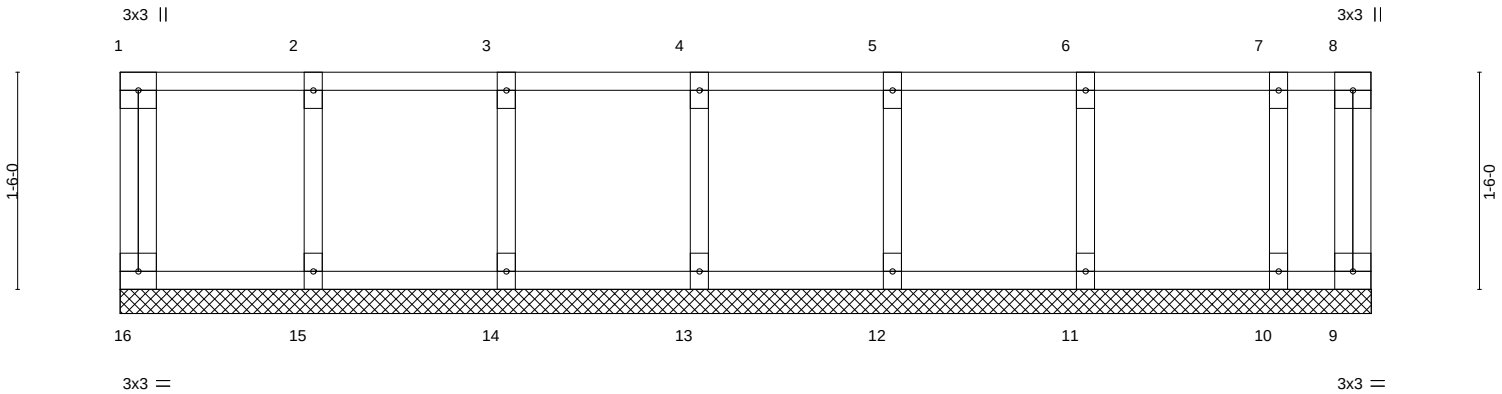

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	8-7-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-7-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW11	GABLE	1	1	I50651419
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:31 2022 Page 1
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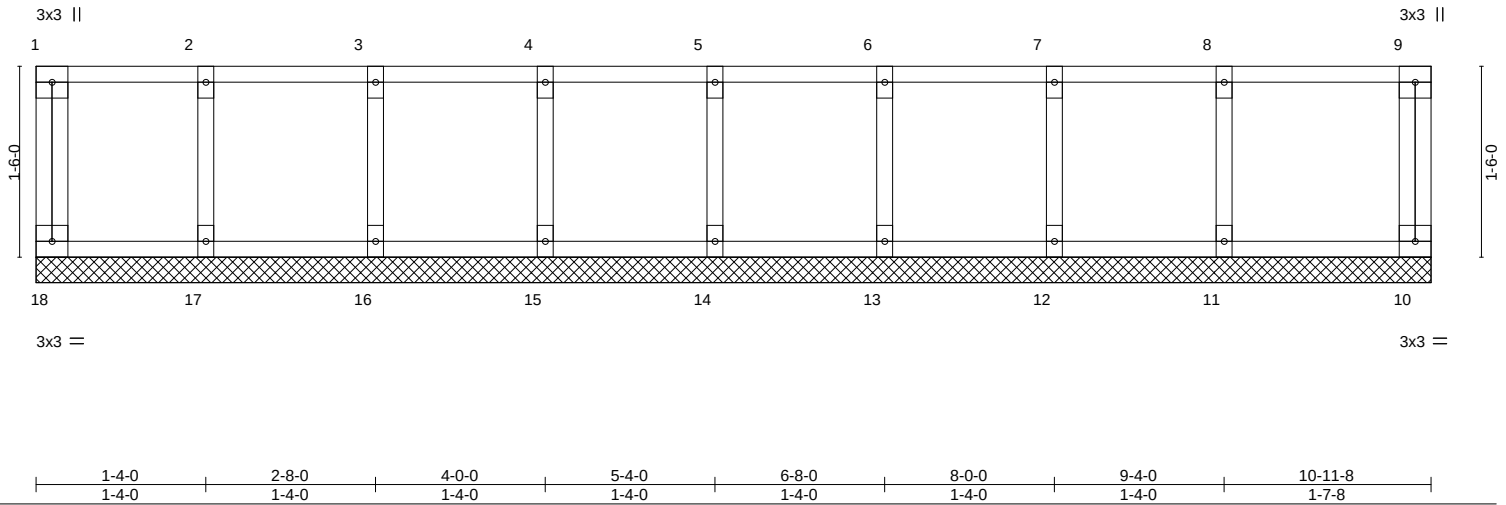

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-8

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW12	GABLE	2	1	I50651420
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:31 2022 Page 1
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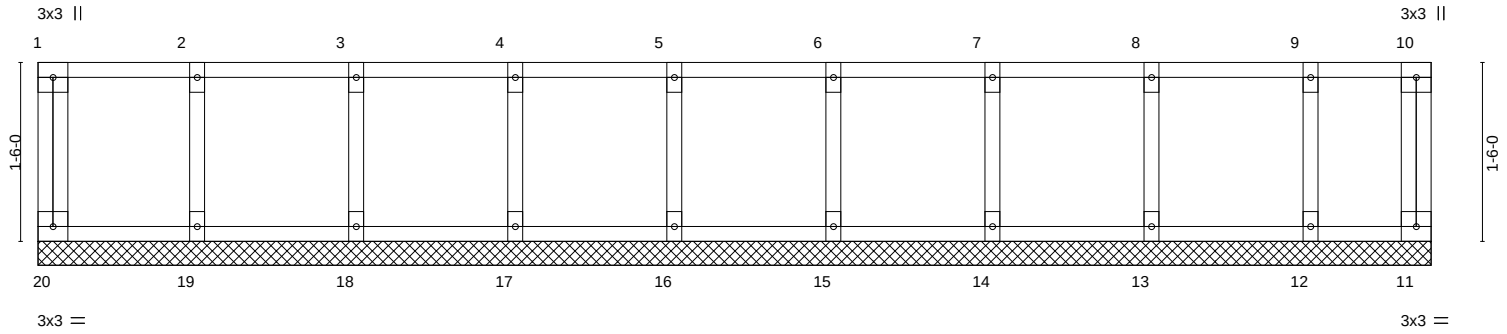

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW13	GABLE	1	1	I50651421
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:32 2022 Page 1
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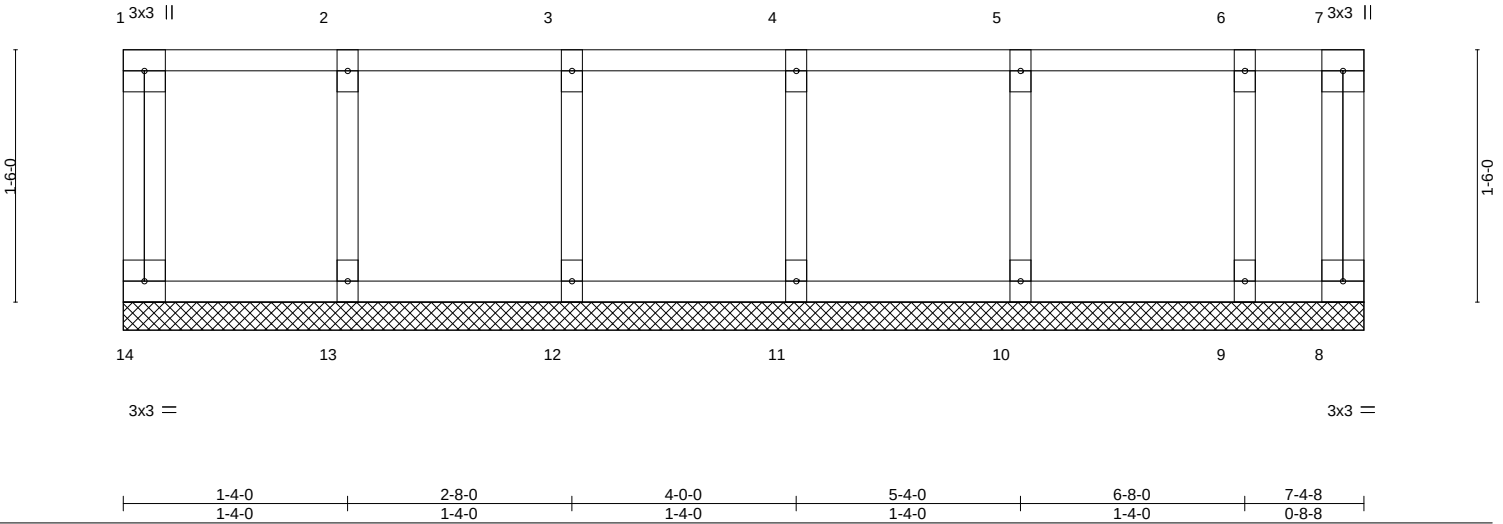

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW14	GABLE	1	1	I50651422
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:32 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-LAYbv39zMkqzk6nRpuHtY_GI4vNLh2lAHDGqUFzd01D

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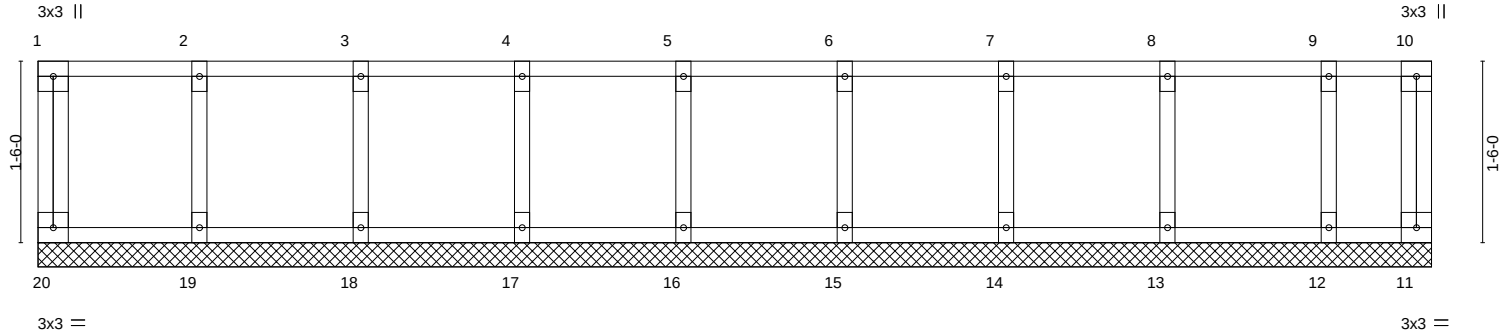

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-6-3
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-3

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-3.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW15	GABLE	1	1	I50651423
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:34 2022 Page 1
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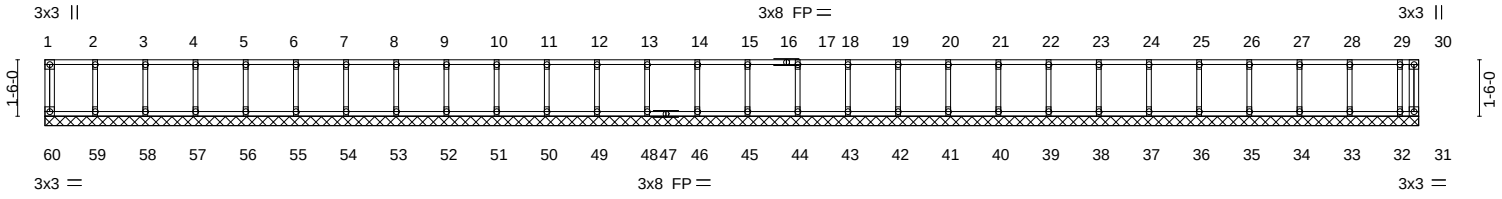

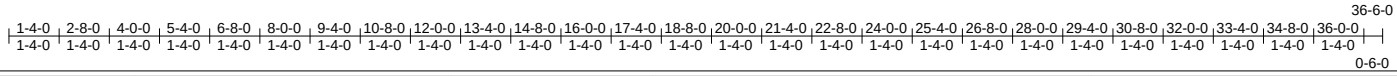

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW16	GABLE	1	1	I50651424
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:35 2022 Page 1
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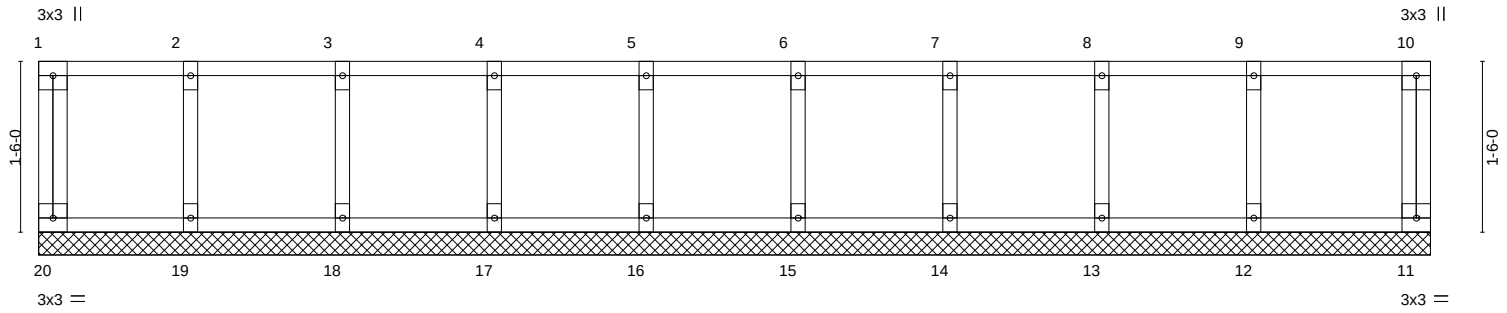

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW17	GABLE	1	1	I50651425
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:36 2022 Page 1
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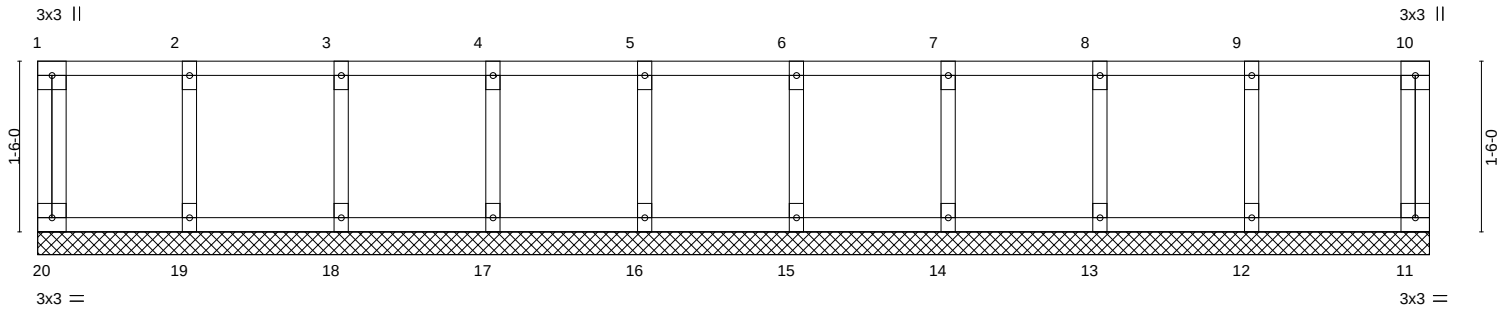

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW18	GABLE	1	1	I50651426
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:36 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-Exn6lRCUQzLODj5C2kMpjqQz3WkEdslmCrE1d0zd019

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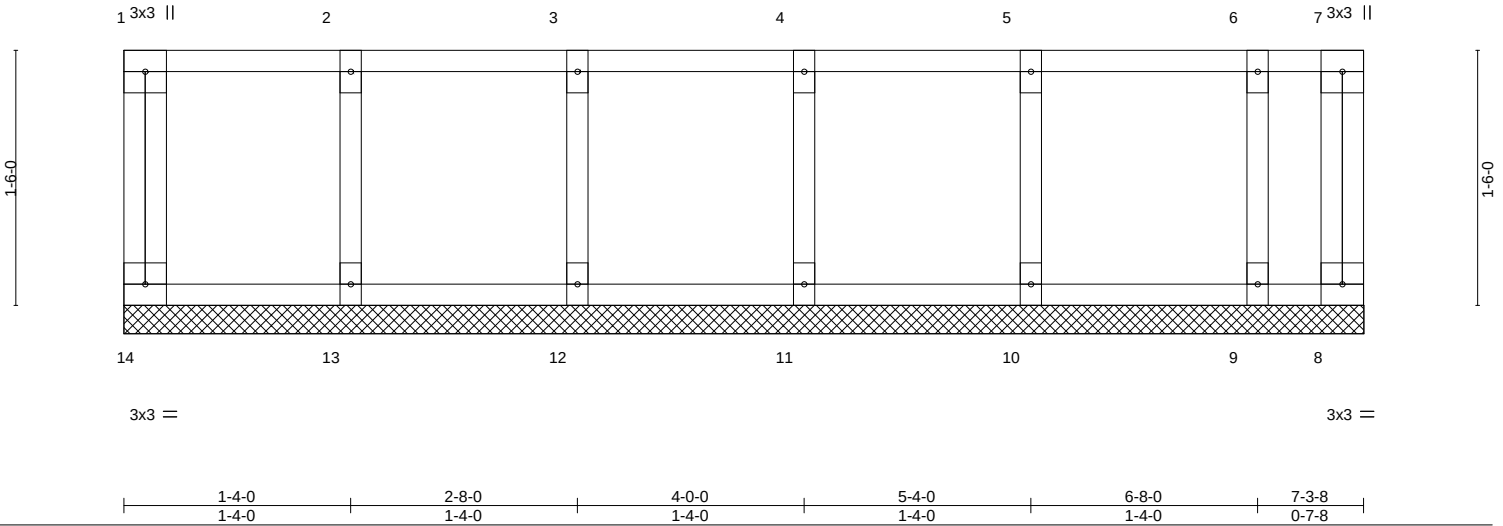

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW19	GABLE	1	1	I50651427
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:37 2022 Page 1
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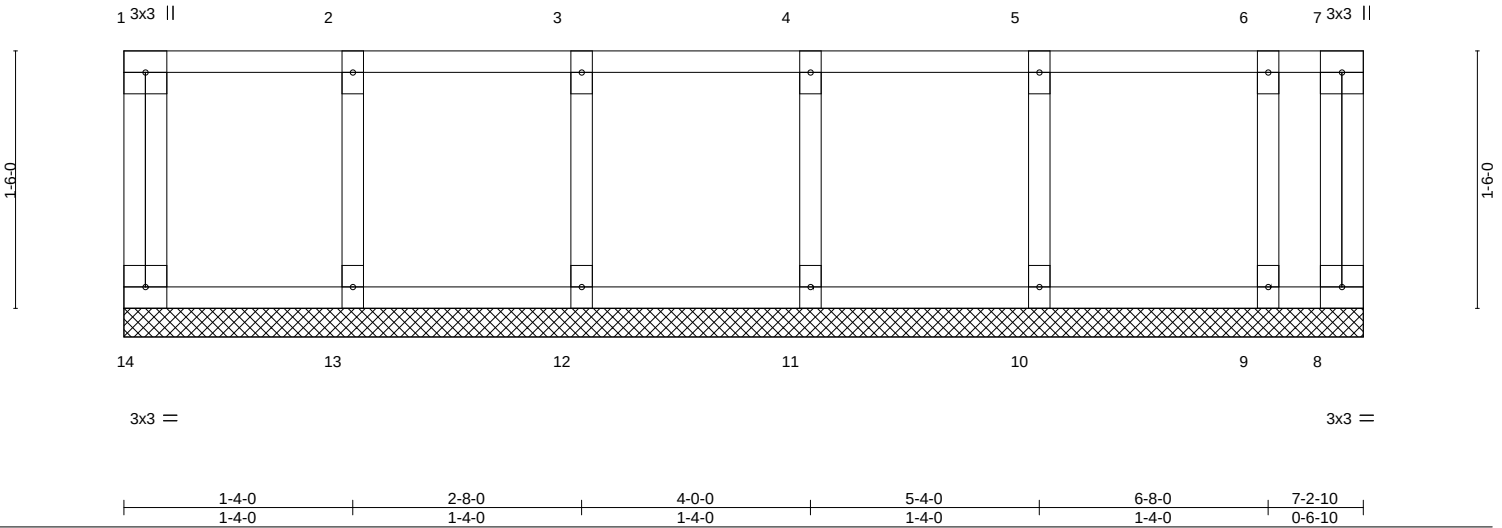

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW20	GABLE	1	1	I50651428
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:38 2022 Page 1
ID:hubhZSntRl7HMrwP_m8M7ZyYT2O-AJvsA7Ekyab6S1Eb99OHoFWJdKQr5mF3g9j8hvzd017

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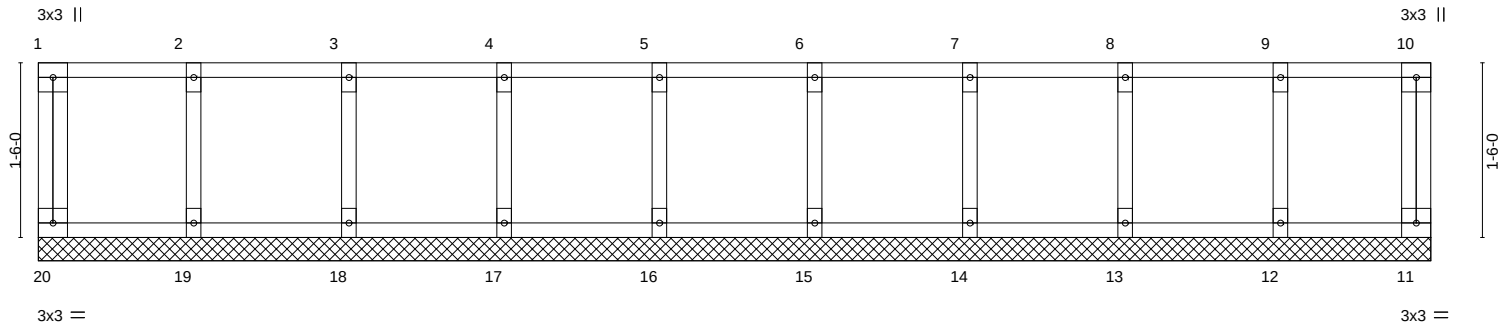

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

March 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW21	GABLE	1	1	I50651429
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:39 2022 Page 1
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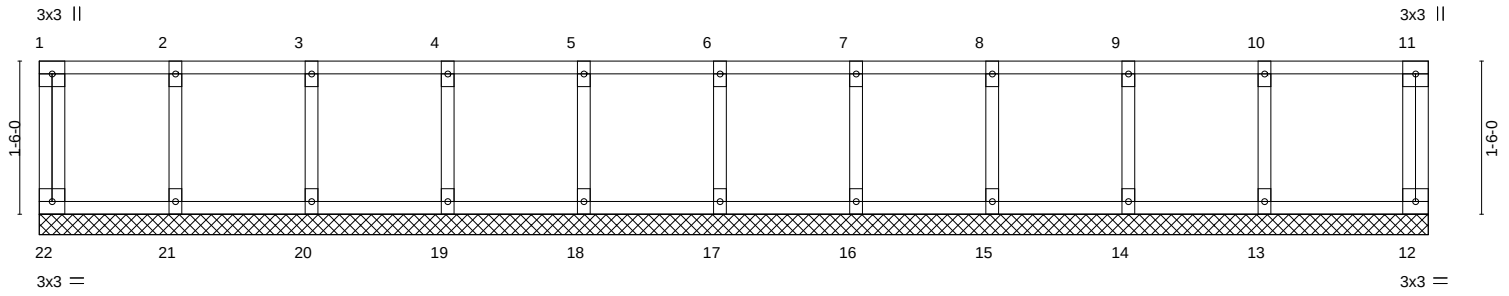

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-7-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C Level 3

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-2BC
PRYOR-2BC	KW22	GABLE	1	1	I50651430
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 8 10:28:39 2022 Page 1
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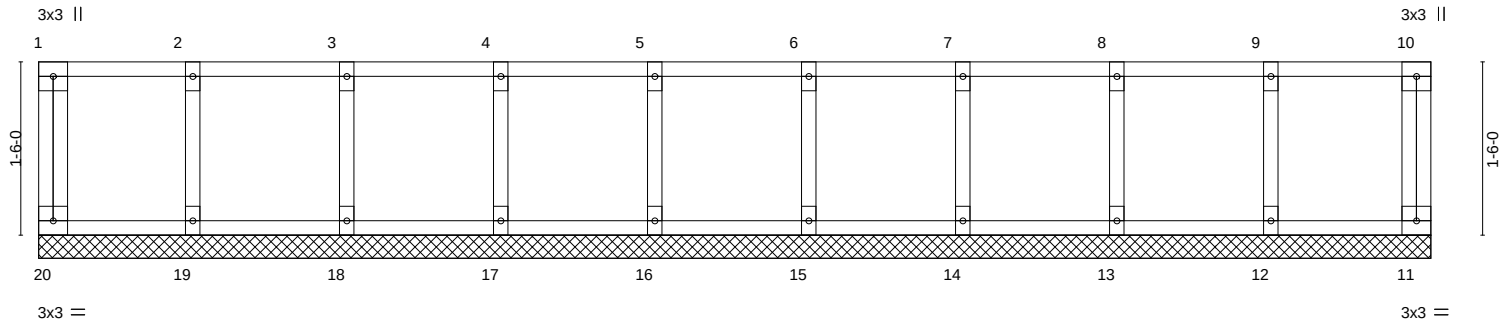

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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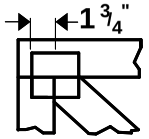
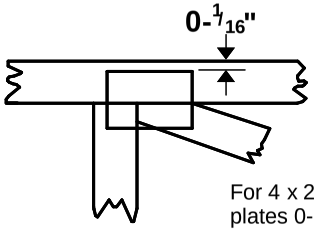
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

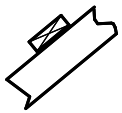
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

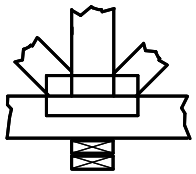
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

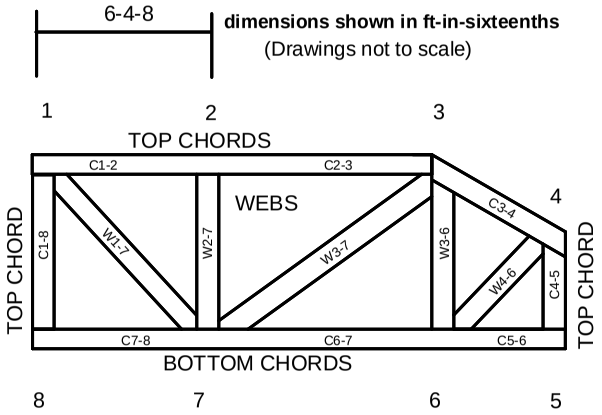


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area B/C Level 3

Building 1 Area D Level 3

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: February 13, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
3rd floor truss shop drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

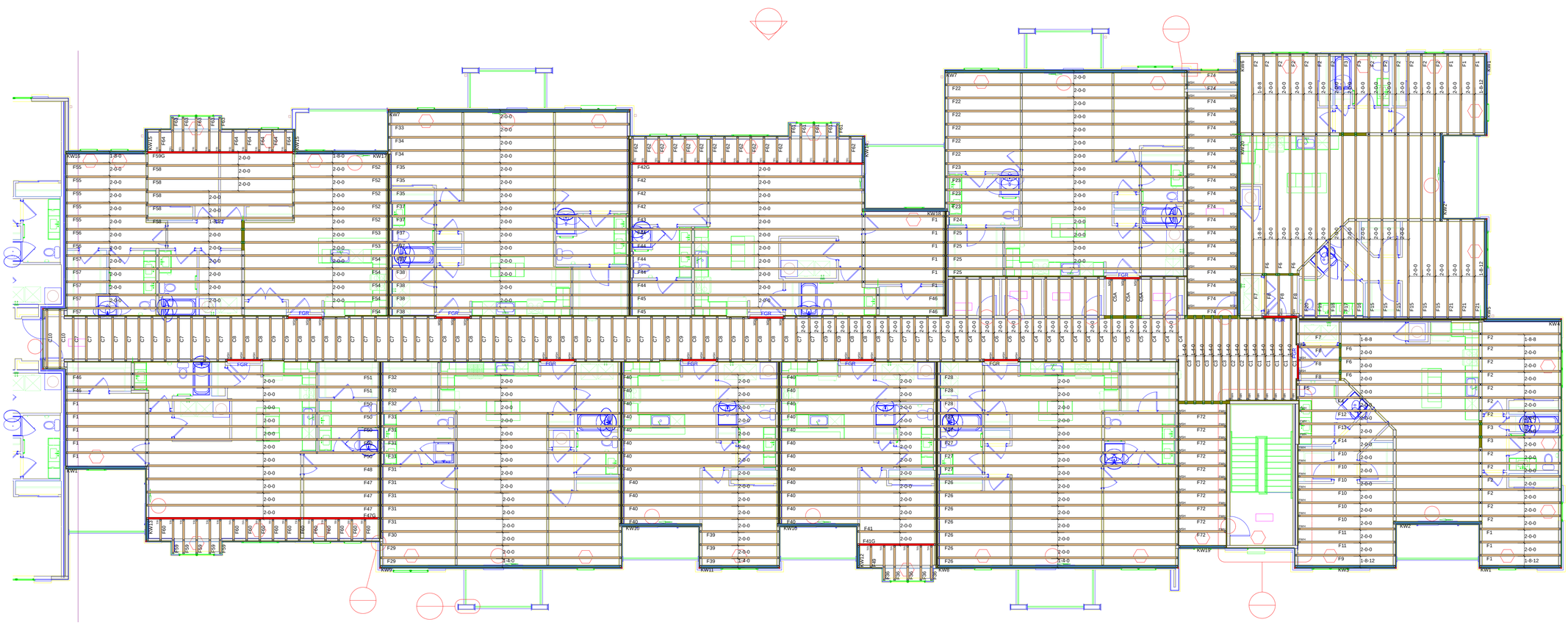
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F4C



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #1 Area C
3rd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/15/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO QUALIFICATIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 02/13/2022 BY: MJF

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

TRUSS LAYOUT

Scale: 1/8" = 1'-0

Building 1 Area D Level 3

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F4c
WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.
☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 02/13/2022 BY: MJF

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I50122969 thru I50123070

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/15/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

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STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

February 9,2022

Johnson, Andrew ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C1	Floor	6	1	I50122969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:11 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-utVJt9ck4haIxuAEQEoPayPz4fF7phQ1AU9YzlznF9M

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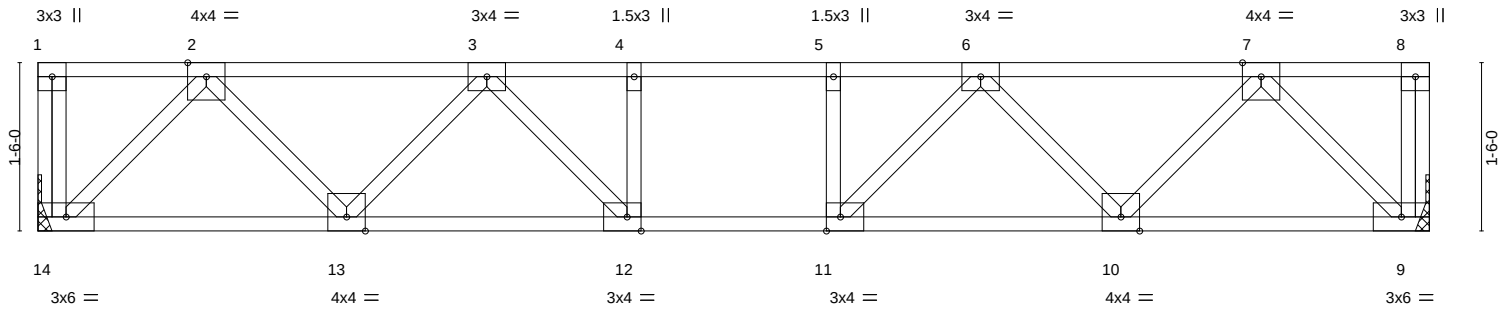

12-4-13
12-4-13

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.14	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.16	12-13	>914	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=Mechanical
Max Grav 14=1215(LC 1), 9=1215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1767/0, 3-4=-2646/0, 4-5=-2646/0, 5-6=-2646/0, 6-7=-1767/0
BOT CHORD 13-14=0/1135, 12-13=0/2381, 11-12=0/2646, 10-11=0/2381, 9-10=0/1135
WEBS 2-14=-1606/0, 2-13=0/939, 3-13=-913/0, 3-12=-37/729, 4-12=-409/0, 7-9=-1606/0, 7-10=0/939, 6-10=-913/0, 6-11=-37/729, 5-11=-409/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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16023 Swingley Ridge Rd
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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C2	Floor	2	1	I50122970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-N43h4VdMq?i9Z2lQzyJe7Ay8H3a_Y7YAP8u5VBznF9L

1-3-0 1-1-5 1-9-0

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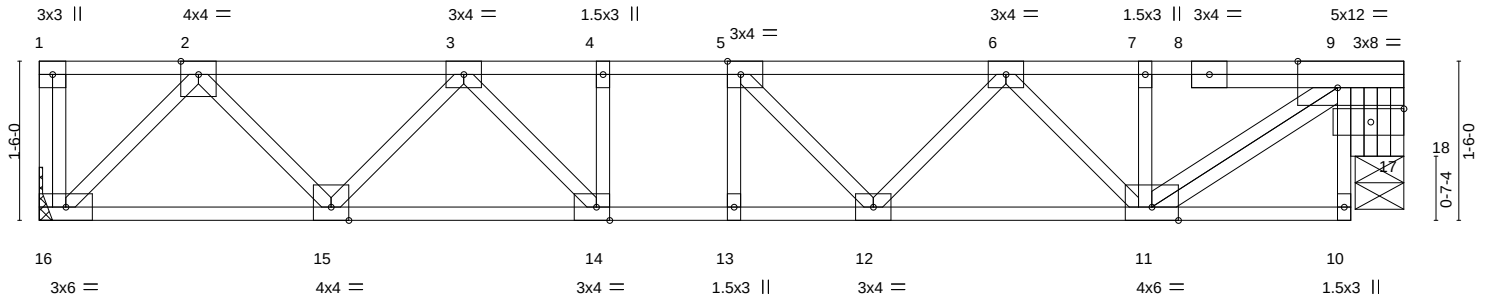

12-10-5
12-10-5

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [9:0-4-8,Edge], [14:0-1-8,Edge], [18:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 9-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 18=0-5-8
Max Grav 16=1234(LC 1), 18=1201(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1794/0, 3-4=-2752/0, 4-5=-2752/0, 5-6=-2530/0, 6-7=-1497/0, 7-9=-1492/0
BOT CHORD	15-16=0/1150, 14-15=0/2443, 13-14=0/2752, 12-13=0/2752, 11-12=0/2256
WEBS	2-16=-1627/0, 2-15=0/957, 3-15=-964/0, 3-14=-38/733, 4-14=-298/0, 9-11=0/1662, 6-11=-1070/0, 6-12=0/484, 5-12=-553/46, 5-13=-280/139, 9-18=-1235/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C3	Floor	5	1	I50122971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:13 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-rGd3Hre_bIq0BCKcXfqtgNVJLTzhHdoJeoef1dznF9K

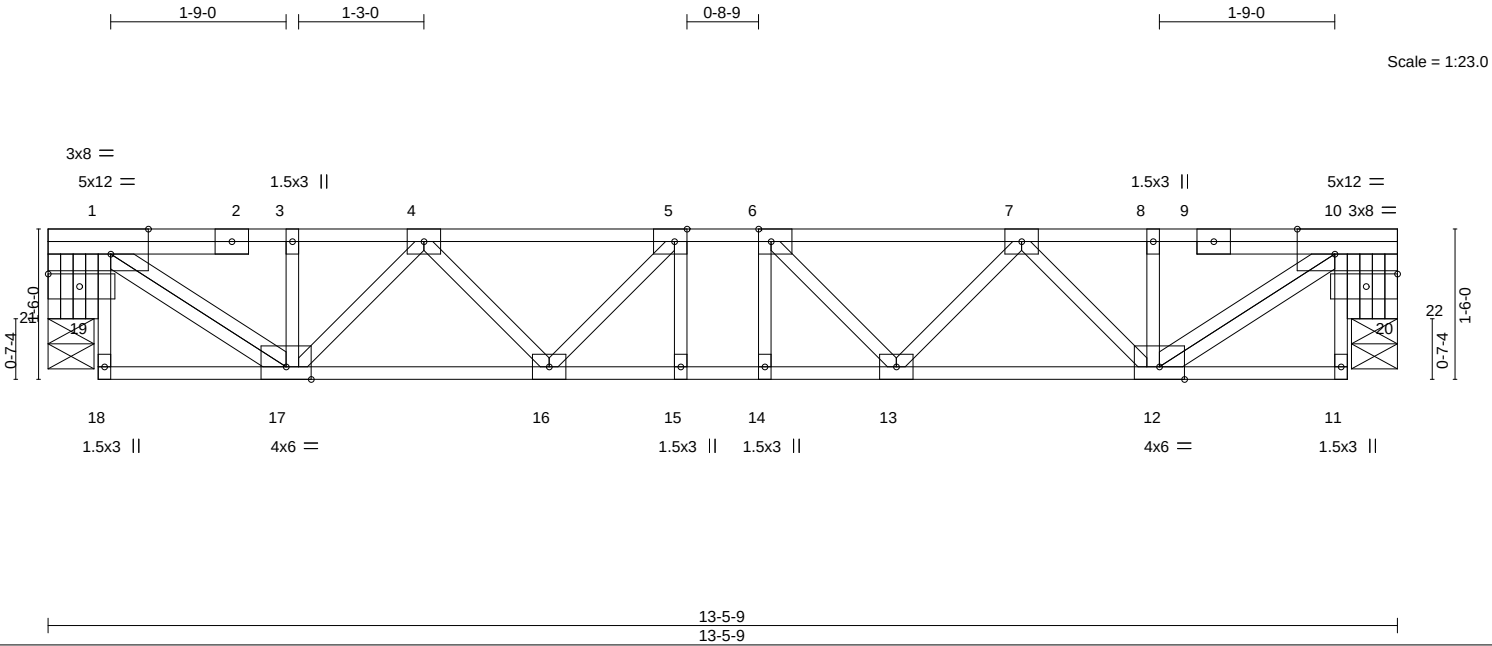

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-4-8,Edge], [21:0-3-12,0-1-8], [22:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.10	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 91 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-17,10-12: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 21=0-5-8, 22=0-5-8
Max Grav 21=1234(LC 1), 22=1234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1543/0, 3-4=-1548/0, 4-5=-2639/0, 5-6=-2954/0, 6-7=-2639/0, 7-8=-1548/0, 8-10=-1543/0
BOT CHORD	16-17=0/2327, 15-16=0/2954, 14-15=0/2954, 13-14=0/2954, 12-13=0/2327
WEBS	1-17=0/1723, 10-12=0/1723, 7-12=-1098/0, 7-13=0/512, 6-13=-623/0, 6-14=-285/294, 4-17=-1098/0, 4-16=0/512, 5-16=-623/0, 5-15=-285/294, 1-21=-1268/0, 10-22=-1268/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 21, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
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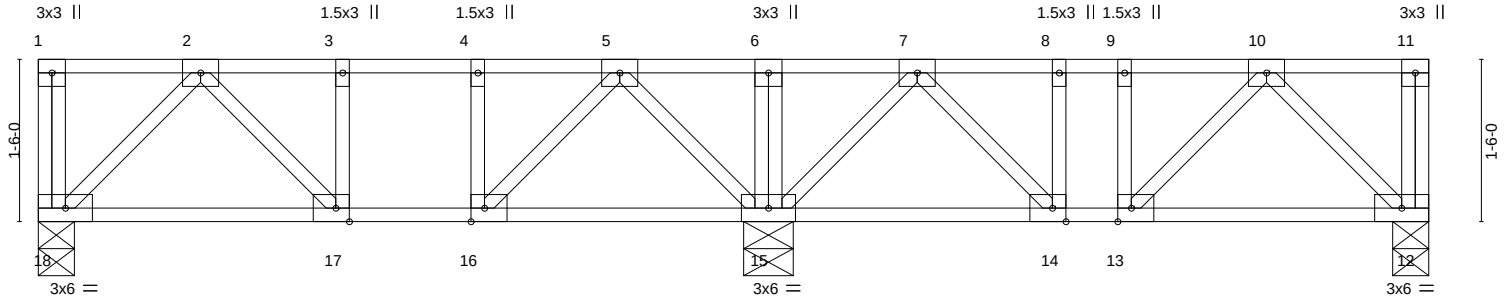
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C4	Floor	12	1	I50122972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-JSASVBfcMcztoMvo5NL6Cb1ZDsOg02rTsSNCa3znF9J

1-3-0 1-1-8 0-5-12

Scale = 1:21.3



6-9-0 12-10-4
6-9-0 6-1-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	17-18	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=942(LC 10), 12=895(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1056/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-20/612, 6-7=-20/612, 7-8=-979/0, 8-9=-979/0, 9-10=-979/0
BOT CHORD 17-18=0/769, 16-17=0/1056, 15-16=-36/619, 14-15=-87/715, 13-14=0/979, 12-13=0/725
WEBS 6-15=-432/0, 2-18=-1088/0, 2-17=0/416, 5-15=-1214/0, 5-16=0/715, 4-16=-464/0, 3-17=-302/0, 7-15=-1164/0, 7-14=0/639, 10-12=-1026/0, 10-13=-27/367, 8-14=-398/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C5	Floor	3	1	I50122973
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-JSASVBfcMcztoMvo5NL6Cb1U2sLh02uTsSNCa3znF9J

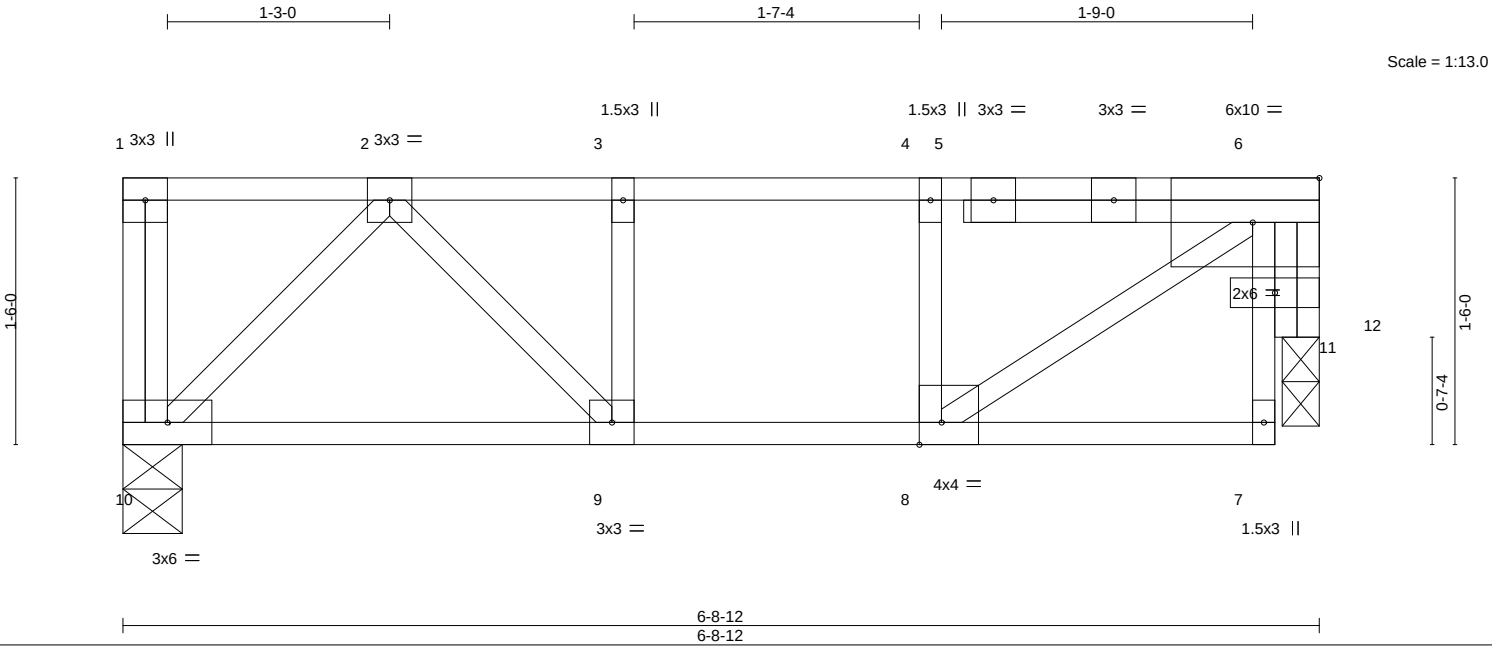

Plate Offsets (X,Y)-- [6:0-4-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.08	9-10	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 12=0-2-8
Max Grav 10=968(LC 1), 12=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1092/0, 3-4=-1092/0, 4-6=-1098/0
BOT CHORD	9-10=0/790, 8-9=0/1092
WEBS	6-8=0/1195, 4-8=-621/0, 2-10=-1118/0, 2-9=0/567, 3-9=-355/0, 6-12=-946/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C5A	Floor	3	1	I50122974
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:15 2022 Page 1
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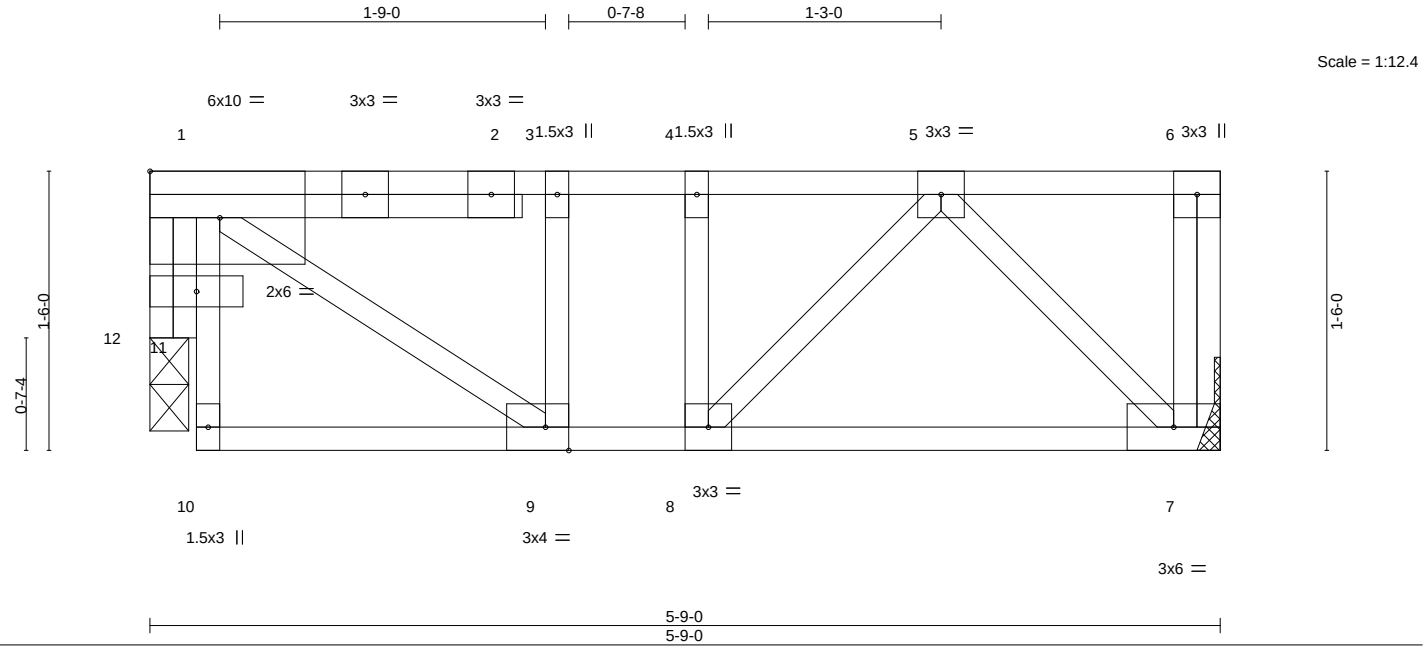

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 12=0-2-8
Max Grav 7=821(LC 1), 12=773(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-820/0, 3-4=-812/0, 4-5=-812/0
BOT CHORD 8-9=0/812, 7-8=0/651
WEBS 1-9=0/856, 3-9=-447/0, 5-7=-921/0, 5-8=0/337, 1-12=-801/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C6	Floor	3	1	I50122975
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:16 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-FrICwtgsuDDb2f3BCoOaH07wYg5AUzmmKmsJeyznF9H

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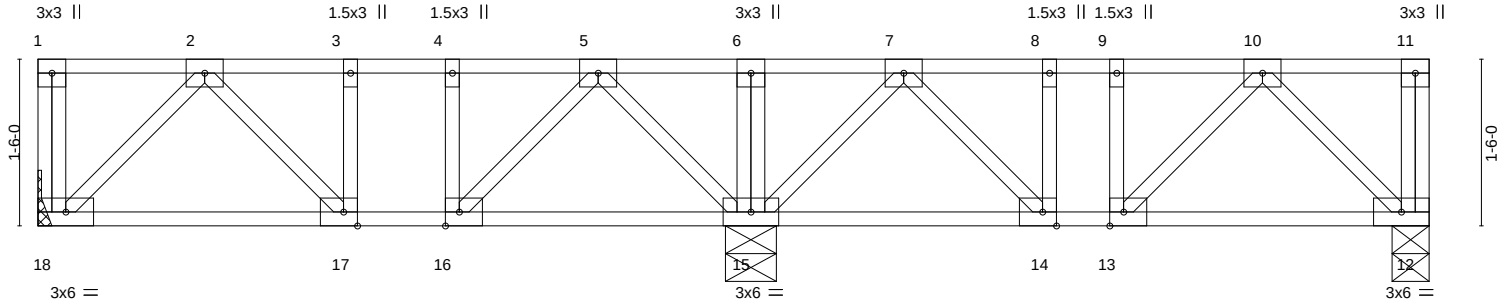

6-5-0 12-6-4
6-5-0 6-1-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	17-18	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 18=885(LC 10), 12=864(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-942/0, 3-4=-942/0, 4-5=-942/0, 5-6=0/574, 6-7=0/574, 7-8=-911/0, 8-9=-911/0, 9-10=-911/0
BOT CHORD 17-18=0/714, 16-17=0/942, 15-16=-78/558, 14-15=-106/611, 13-14=0/911, 12-13=0/694
WEBS 6-15=-429/0, 2-18=-1010/0, 2-17=-18/330, 5-15=-1174/0, 5-16=0/655, 4-16=-419/0, 7-15=-1153/0, 7-14=0/623, 8-14=-390/0, 10-12=-982/0, 10-13=-36/315

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C7	Floor	37	1	I50122976
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:16 2022 Page 1
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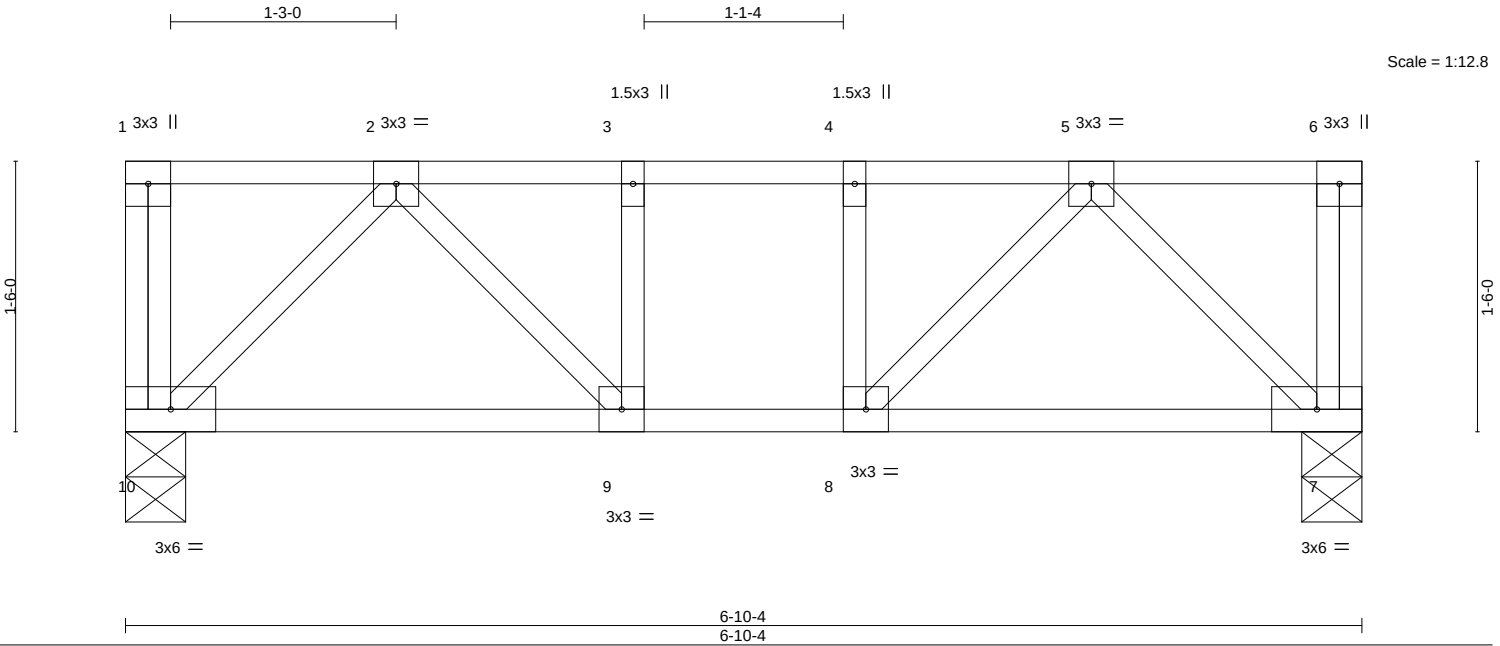

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C8	Floor	21	1	I50122977
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:17 2022 Page 1
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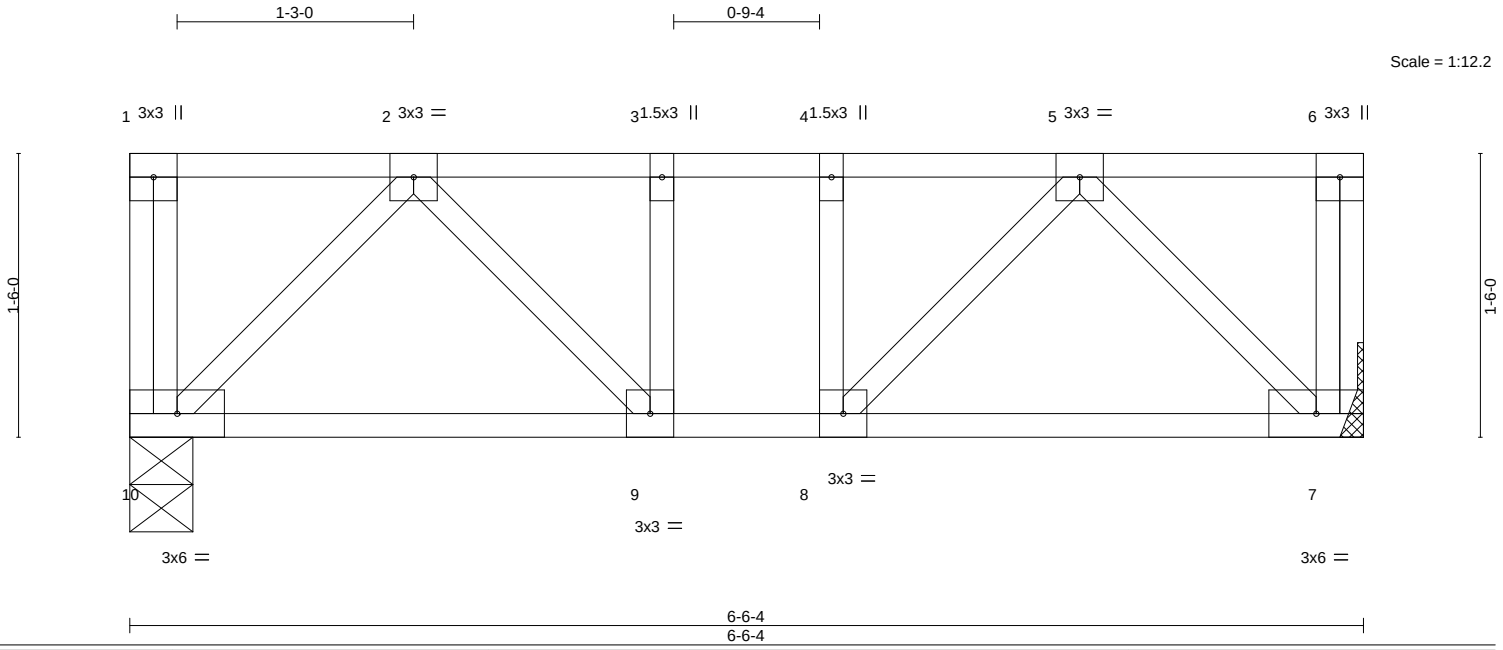

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/640, 8-9=0/891, 7-8=0/640
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C9	Floor	9	1	I50122978
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:17 2022 Page 1
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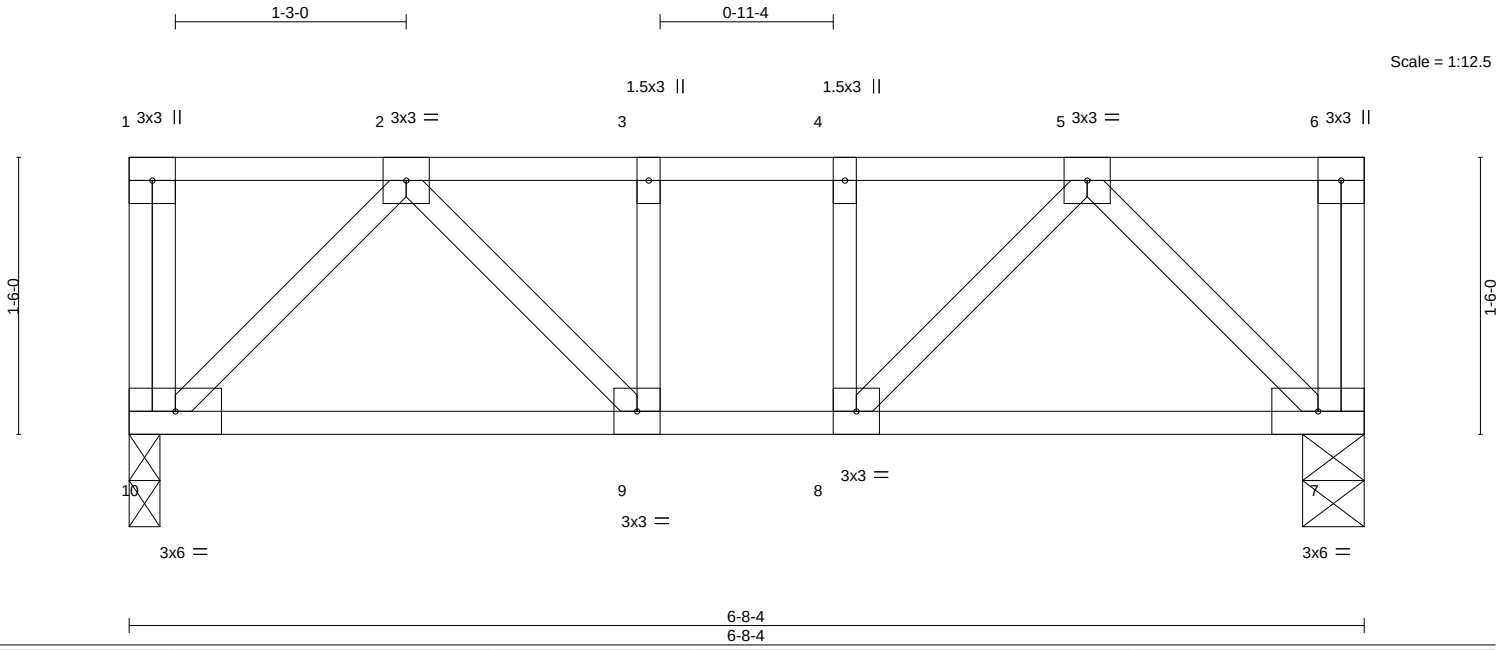

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/468, 3-9=-266/0, 5-7=-934/0, 5-8=0/468, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	C10	Floor	2	1	I50122979
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:11 2022 Page 1
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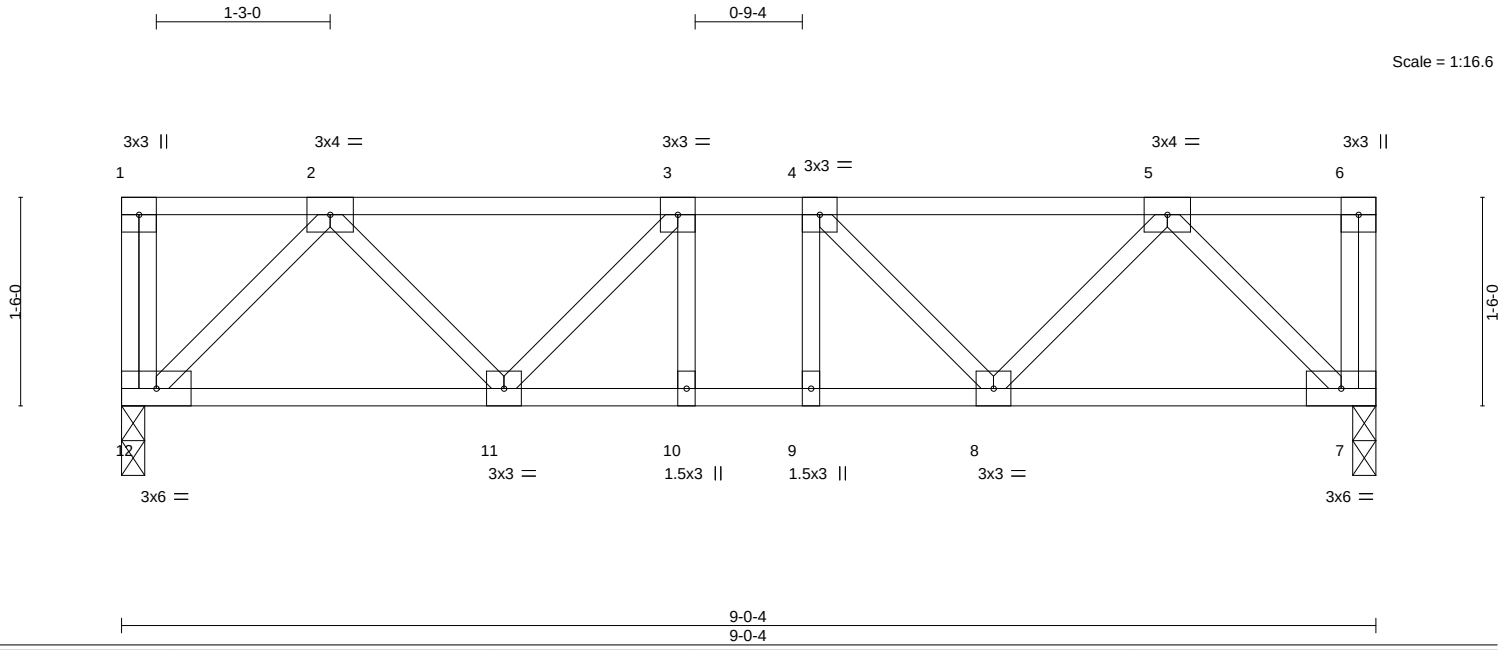

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-0
Max Grav 12=1096(LC 1), 7=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1400/0, 3-4=-1793/0, 4-5=-1400/0
BOT CHORD	11-12=0/1001, 10-11=0/1793, 9-10=0/1793, 8-9=0/1793, 7-8=0/1001
WEBS	2-12=-1416/0, 2-11=0/593, 3-11=-594/0, 5-7=-1416/0, 5-8=0/593, 4-8=-594/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F1	Floor	17	1	I50122980
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:18 2022 Page 1
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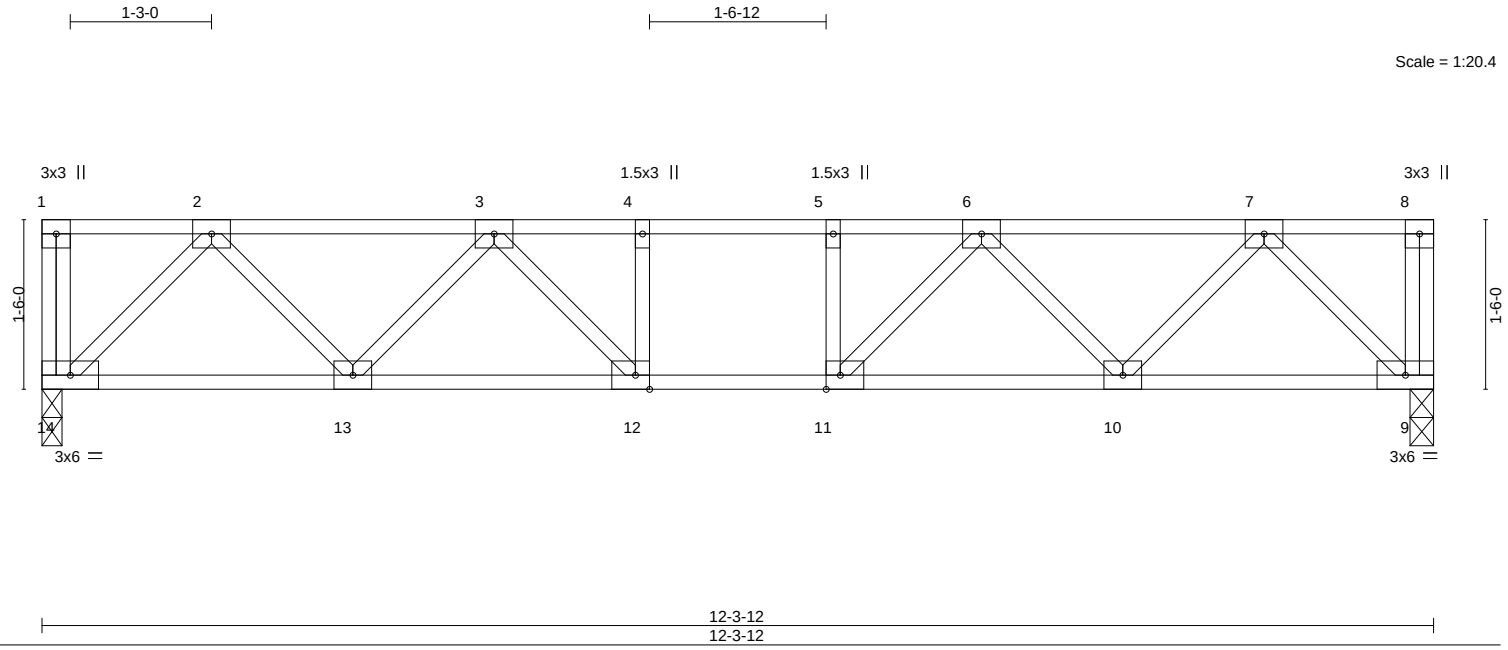

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-2-8
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F2	Floor	26	1	I50122981
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:30 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-rX8VsfrebX_cjp7t1kessyiKJJrHmJdqYxF288znF93

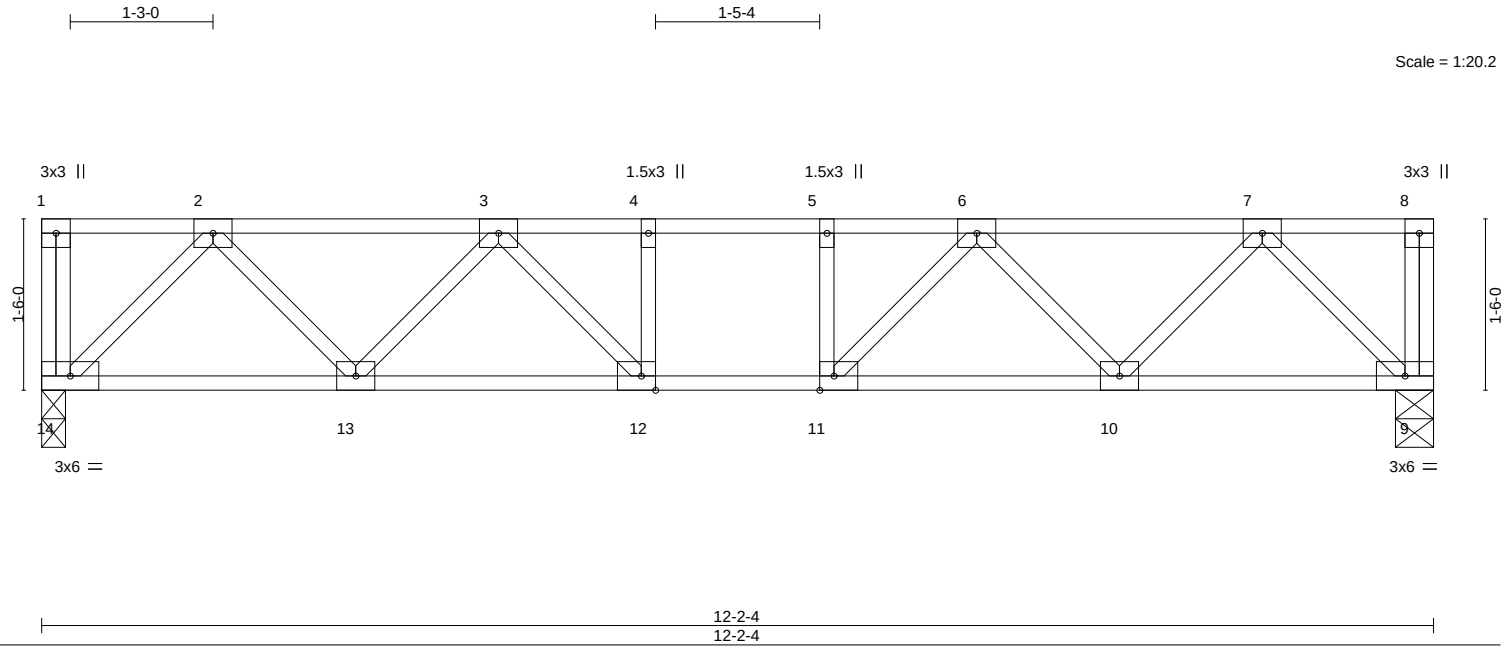

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-4-0
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F3	Floor	4	1	I50122982
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-J?EIep3xM3F2taVL4Wy4alRL9ayV_SrThkc?l5znF8n

1-3-0 | 1-11-4 | 1-9-0

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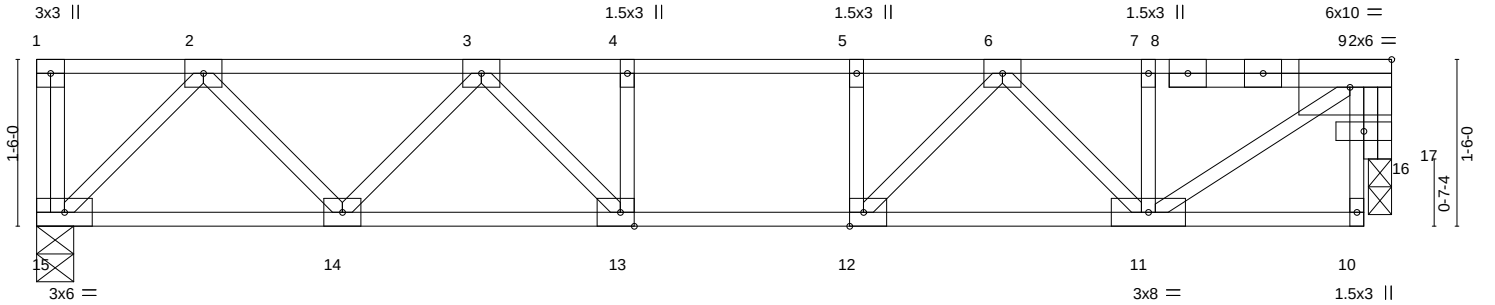

12-2-4
12-2-4

Plate Offsets (X,Y)-- [9:0-4-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 9-11: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1126/0, 3-4=-1646/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-966/0, 7-9=-970/0
BOT CHORD	14-15=0/719, 13-14=0/1500, 12-13=0/1646, 11-12=0/1358
WEBS	2-15=-1017/0, 2-14=0/605, 3-14=-556/0, 3-13=0/394, 9-11=0/1071, 6-11=-567/0, 6-12=0/537, 5-12=-302/0, 9-17=-774/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F4	Floor	1	1	I50122983
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-nTJ6PzHE7bWV1Lto8lHIJYBLiq1kCWD7qXzyO2znF8V

1-3-0 1-9-13 1-1-3

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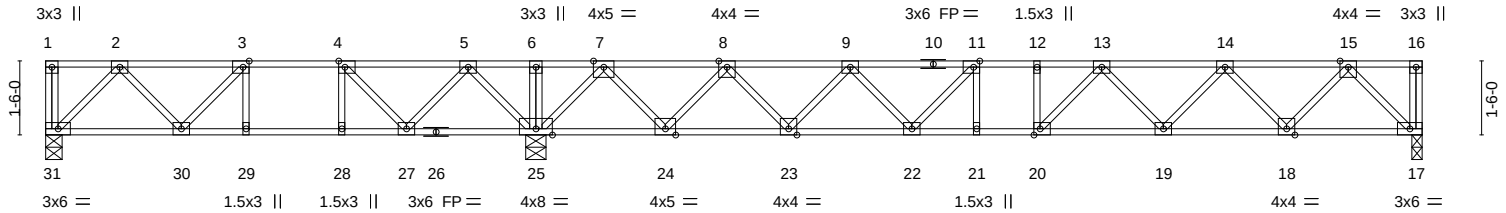

9-11-5 27-11-0
9-11-5 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.17	21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.26	21	>831	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 25=0-4-15
Max Grav 31=528(LC 3), 17=1050(LC 7), 25=2165(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-651/82, 3-4=-739/340, 4-5=-288/799, 5-6=0/1823, 6-7=0/1823, 7-8=-642/0, 8-9=-2043/0, 9-11=-2833/0, 11-12=-3076/0, 12-13=-3076/0, 13-14=-2642/0, 14-15=-1653/0
BOT CHORD 30-31=0/488, 29-30=-340/739, 28-29=-340/739, 27-28=-340/739, 25-27=-1137/0, 24-25=-605/0, 23-24=0/1482, 22-23=0/2580, 21-22=0/3076, 20-21=0/3076, 19-20=0/2971, 18-19=0/2292, 17-18=0/989
WEBS 5-25=-1081/0, 5-27=0/772, 4-27=-958/0, 2-31=-690/0, 3-30=-128/374, 3-29=-308/0, 4-28=0/338, 15-17=-1398/0, 15-18=0/988, 14-18=-950/0, 14-19=0/520, 13-19=-489/0, 13-20=-163/368, 7-25=-1722/0, 7-24=0/1317, 8-24=-1293/0, 8-23=0/877, 9-23=-839/0, 9-22=0/478, 11-22=-542/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F5	Floor	1	1	I50122984
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:32 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1TuxtsbX?anp9LsofllPM1GnyJwRHEByoaHKJYznF85

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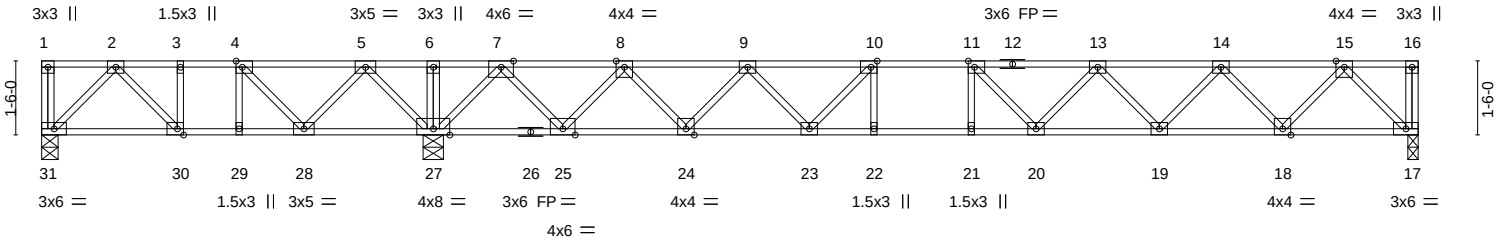

7-11-5 27-11-0
7-11-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	20-21	>666	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 27=0-4-15
Max Uplift 31=-166(LC 4)
Max Grav 31=324(LC 3), 17=1149(LC 7), 27=2350(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/587, 3-4=-268/587, 4-5=0/1116, 5-6=0/2252, 6-7=0/2252, 7-8=-334/95, 8-9=-2028/0, 9-10=-3112/0, 10-11=-3617/0, 11-13=-3583/0, 13-14=-3013/0, 14-15=-1839/0
BOT CHORD 29-30=-587/268, 28-29=-587/268, 27-28=-1546/0, 25-27=-892/0, 24-25=0/1325, 23-24=0/2697, 22-23=0/3617, 21-22=0/3617, 20-21=0/3617, 19-20=0/3453, 18-19=0/2561, 17-18=0/1089
WEBS 2-31=-349/286, 2-30=-557/31, 5-27=-1128/0, 5-28=0/811, 4-28=-924/0, 4-29=0/261, 3-30=-29/263, 7-27=-1923/0, 7-25=0/1516, 8-25=-1495/0, 8-24=0/1067, 9-24=-1014/0, 9-23=0/671, 10-23=-900/0, 15-17=-1540/0, 15-18=0/1115, 14-18=-1074/0, 14-19=0/673, 13-19=-654/0, 13-20=0/309, 11-20=-319/247, 11-21=-320/57, 10-22=-26/351

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 31.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F6	Floor	6	1	I50122985
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:45 2022 Page 1
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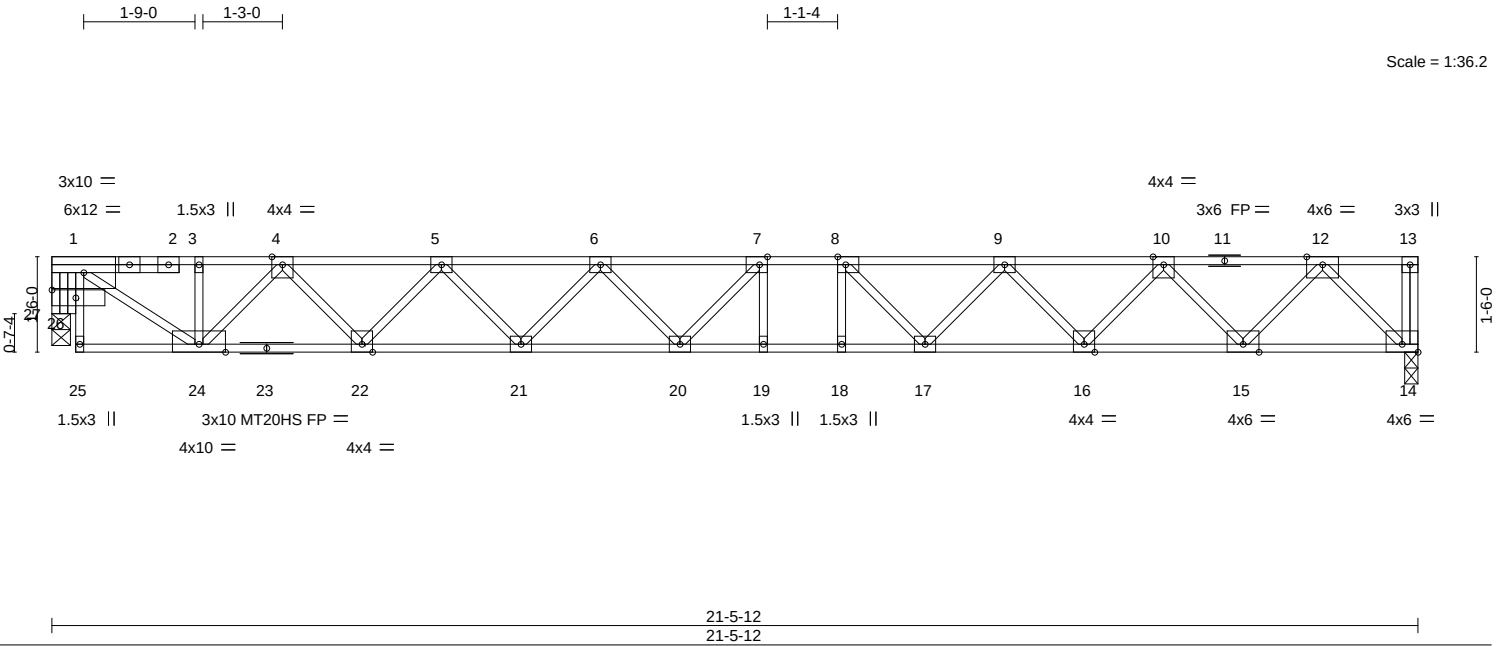

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [14:Edge,0-1-8], [26:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.32	19-20	>792	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.52	19-20	>487	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-24: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 27=0-3-8
Max Grav 14=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1883/0, 3-4=-1880/0, 4-5=-3583/0, 5-6=-4691/0, 6-7=-5190/0, 7-8=-5224/0, 8-9=-4823/0, 9-10=-3848/0, 10-12=-2266/0
BOT CHORD	22-24=0/2868, 21-22=0/4274, 20-21=0/5092, 19-20=0/5224, 18-19=0/5224, 17-18=0/5224, 16-17=0/4471, 15-16=0/3198, 14-15=0/1311
WEBS	1-24=0/2080, 4-24=-1431/0, 4-22=0/1062, 5-22=-1027/0, 5-21=0/621, 6-21=-595/0, 6-20=-71/346, 12-14=-1854/0, 12-15=0/1420, 10-15=-1385/0, 10-16=0/967, 9-16=-926/0, 9-17=0/615, 8-17=-771/0, 7-20=-394/271, 7-19=-305/137, 8-18=-116/325, 1-27=-1394/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

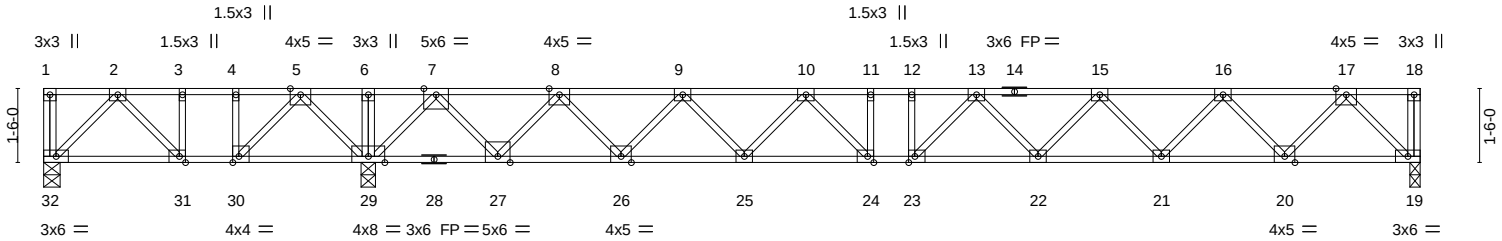
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F7	Floor	2	1	I50122986
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZYs_DKnaEUoY4o5tb6190PwZCmMH1SuIU49BsdznF7r

1-3-0 0-11-8 0-8-8

Scale = 1:46.7



6-7-0 27-11-0
6-7-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.25	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.40	22-23	>636	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-14: 2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-419(LC 4)
Max Grav 32=182(LC 3), 19=1204(LC 7), 29=2570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=0/1167, 3-4=0/1167, 4-5=0/1167, 5-6=0/2795, 6-7=0/2795, 7-8=-42/309, 8-9=-1833/0, 9-10=-3133/0, 10-11=-3956/0, 11-12=-3956/0, 12-13=-3956/0, 13-15=-3902/0, 15-16=-3217/0, 16-17=-1945/0
BOT CHORD	31-32=-445/107, 30-31=-1167/0, 29-30=-2026/0, 27-29=-1325/0, 26-27=0/1020, 25-26=0/2625, 24-25=0/3631, 23-24=0/3956, 22-23=0/4071, 21-22=0/3696, 20-21=0/2721, 19-20=0/1143
WEBS	2-32=-151/630, 2-31=-1045/0, 3-31=0/581, 5-29=-1266/0, 5-30=0/1391, 4-30=-780/0, 7-29=-2080/0, 7-27=0/1686, 8-27=-1639/0, 8-26=0/1221, 9-26=-1187/0, 9-25=0/767, 10-25=-752/0, 10-24=0/689, 17-19=-1617/0, 17-20=0/1193, 16-20=-1153/0, 16-21=0/737, 15-21=-712/0, 15-22=0/335, 13-22=-306/0, 13-23=-424/218, 11-24=-353/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 419 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F8	Floor	6	1	I50122987
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:50 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Vw_ke0pql63FJ6FFjX3d5q0?SZCZVXxbxOeHxVznF7p

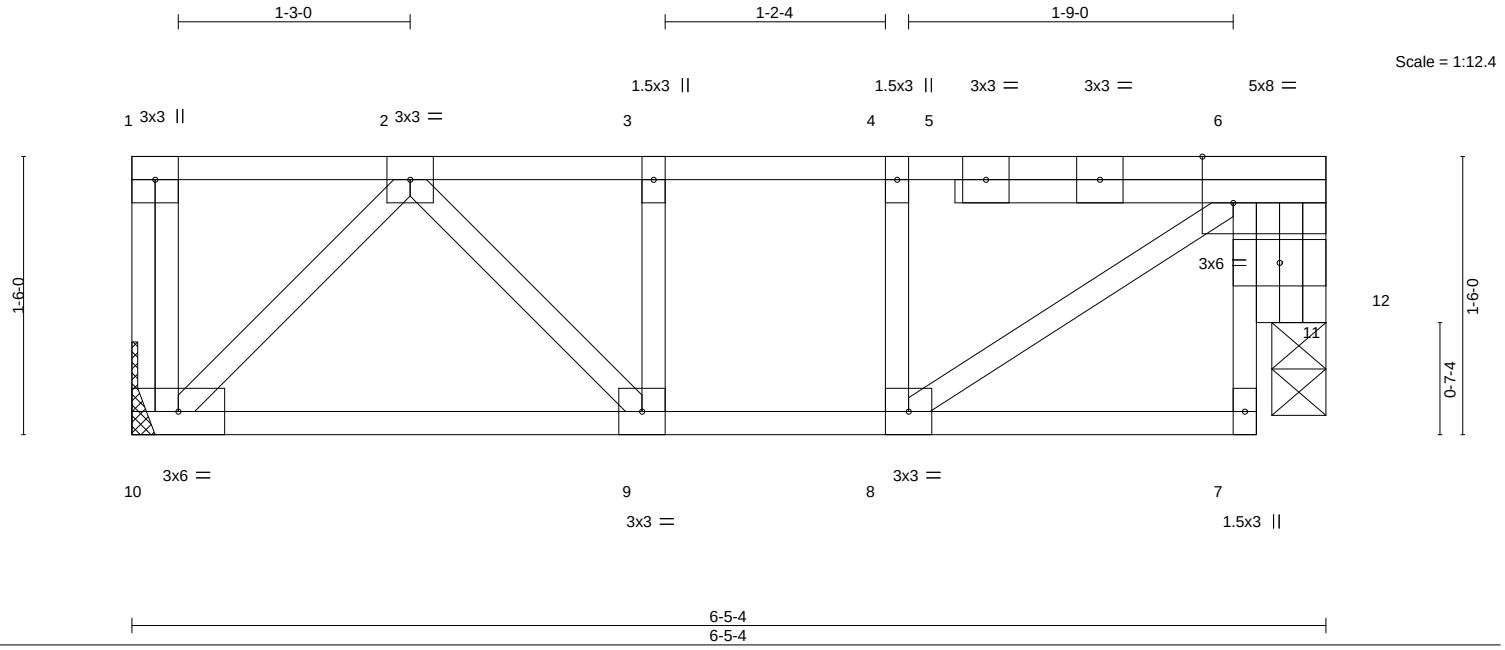

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
6-8: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=395(LC 1), 12=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-427/0, 3-4=-427/0, 4-6=-430/0
BOT CHORD 9-10=0/317, 8-9=0/427
WEBS 6-8=0/451, 2-10=-448/0, 6-12=-386/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F9	Floor	1	1	I50122988
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:50 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Vw_ke0pql63FJ6FFjX3d5q0z7Z46VSKbxOeHxVznF7p

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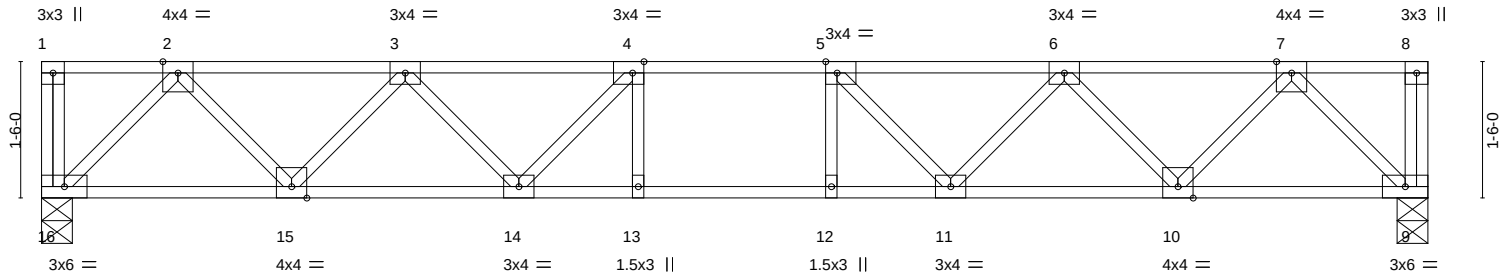

15-3-0
15-3-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.13	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.18	13-14	>980	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-1, 9=0-4-1
Max Grav 16=975(LC 1), 9=975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1511/0, 3-4=-2361/0, 4-5=-2638/0, 5-6=-2361/0, 6-7=-1511/0
BOT CHORD 15-16=0/914, 14-15=0/2081, 13-14=0/2638, 12-13=0/2638, 11-12=0/2638, 10-11=0/2081, 9-10=0/914
WEBS 2-16=-1292/0, 2-15=0/888, 3-15=-848/0, 3-14=0/465, 4-14=-563/0, 7-9=-1292/0, 7-10=0/888, 6-10=-848/0, 6-11=0/465, 5-11=-563/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

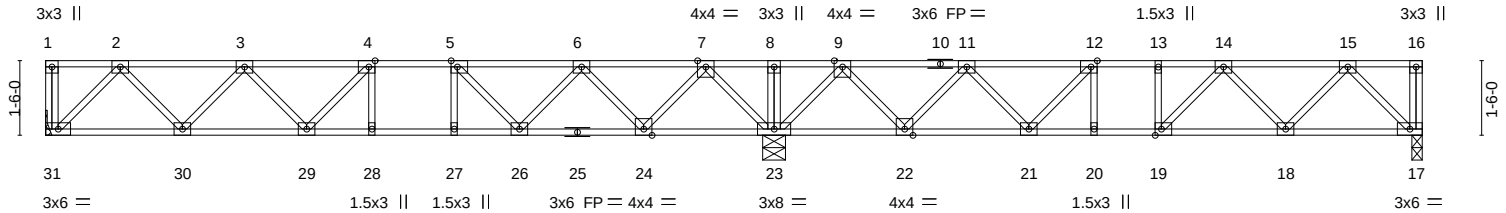
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F10	Floor	6	1	I50122989
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:19 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-fQ_KYujlB8bAv7nmuwxHvelNvt?ihHZC0j5zFHznF9E

1-3-0 1-6-6 1-2-0

Scale = 1:46.4



14-7-14 27-8-6
14-7-14 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.10	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.15	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=830(LC 3), 17=718(LC 4), 23=2126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1236/0, 3-4=-1820/0, 4-5=-1886/0, 5-6=-1468/0, 6-7=-463/371, 7-8=0/1679, 8-9=0/1679, 9-11=-345/477, 11-12=-1172/7, 12-13=-1433/0, 13-14=-1433/0, 14-15=-1018/0
BOT CHORD 30-31=0/765, 29-30=0/1686, 28-29=0/1886, 27-28=0/1886, 26-27=0/1886, 24-26=-79/1103, 23-24=-766/0, 22-23=-788/0, 21-22=-200/905, 20-21=0/1433, 19-20=0/1433, 18-19=0/1346, 17-18=0/662
WEBS 2-31=-1082/0, 2-30=0/699, 3-30=-669/0, 7-23=-1457/0, 7-24=0/1053, 6-24=-1010/0, 6-26=0/611, 5-26=-753/0, 5-27=0/285, 4-28=-260/0, 9-23=-1334/0, 9-22=0/942, 11-22=-908/0, 11-21=0/491, 15-17=-936/0, 15-18=0/529, 14-18=-489/0, 12-21=-561/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F11	Floor	2	1	I50122990
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:19 2022 Page 1
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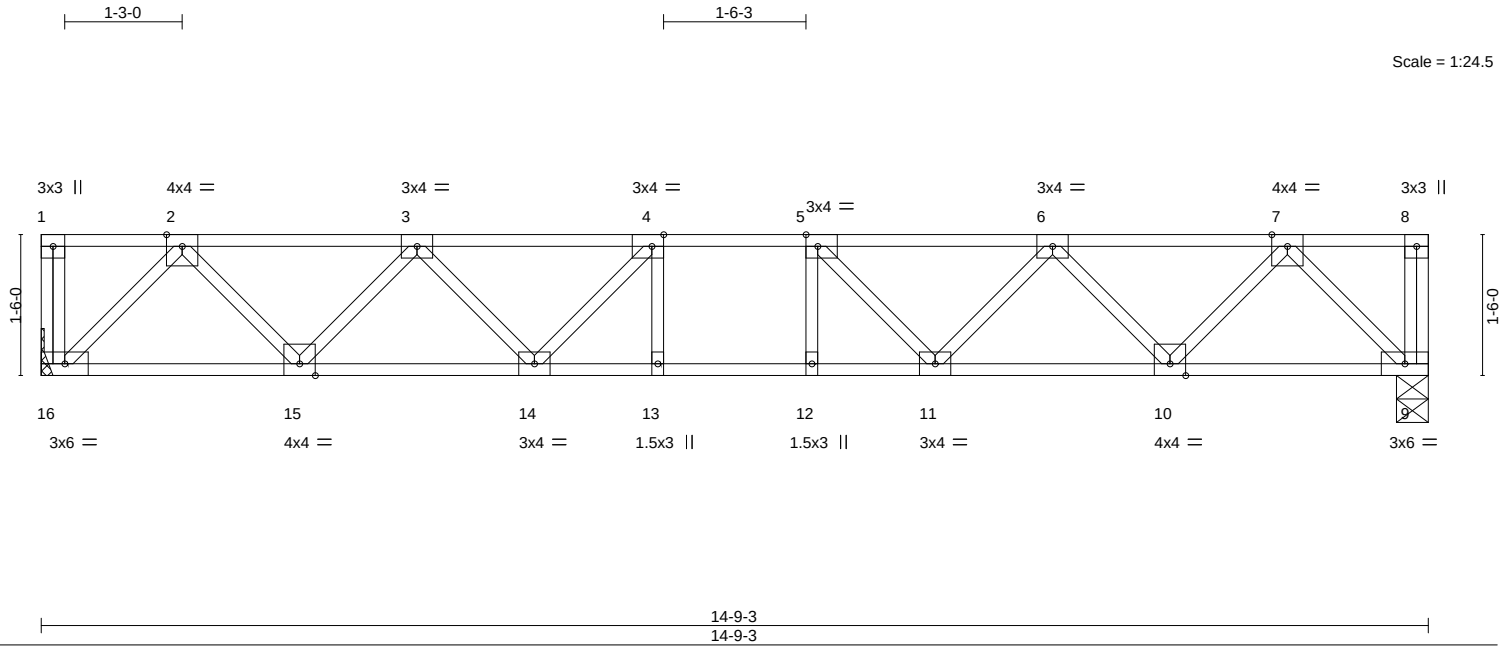

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.15	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=0-4-1
Max Grav 16=944(LC 1), 9=944(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1451/0, 3-4=-2242/0, 4-5=-2484/0, 5-6=-2242/0, 6-7=-1451/0
BOT CHORD 15-16=0/882, 14-15=0/1994, 13-14=0/2484, 12-13=0/2484, 11-12=0/2484, 10-11=0/1994, 9-10=0/882
WEBS 2-16=-1247/0, 2-15=0/847, 3-15=-808/0, 3-14=0/418, 4-14=-490/0, 7-9=-1247/0, 7-10=0/847, 6-10=-808/0, 6-11=0/418, 5-11=-490/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F12	Floor	1	1	I50122991
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:20 2022 Page 1
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1-3-0 0-11-3 1-7-3

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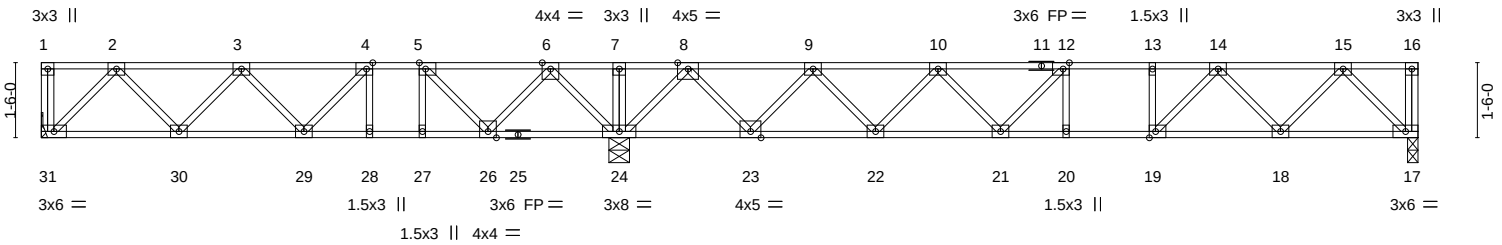

11-6-11 27-6-6
11-6-11 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.12	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.19	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 24=0-4-15
Max Grav 31=622(LC 3), 17=870(LC 4), 24=2200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-841/5, 3-4=-1044/248, 4-5=-875/549, 5-6=-289/1003, 6-7=0/2026, 7-8=0/2026, 9-10=-1333/0, 10-12=-1974/0, 12-13=-2083/0, 13-14=-2083/0, 14-15=-1297/0
BOT CHORD 30-31=0/556, 29-30=-60/1108, 28-29=-549/875, 27-28=-549/875, 26-27=-549/875, 24-26=-1373/0, 23-24=-932/0, 22-23=0/841, 21-22=0/1805, 20-21=0/2083, 19-20=0/2083, 18-19=0/1777, 17-18=0/812
WEBS 2-31=-786/0, 2-30=-55/423, 3-30=-397/82, 3-29=-329/0, 4-29=0/570, 4-28=-413/0, 6-24=-1249/0, 6-26=0/924, 5-26=-1095/0, 5-27=0/431, 15-17=-1149/0, 15-18=0/721, 14-18=-713/0, 14-19=0/526, 8-24=-1593/0, 8-23=0/1188, 9-23=-1163/0, 9-22=0/755, 10-22=-725/0, 10-21=0/350, 12-21=-366/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

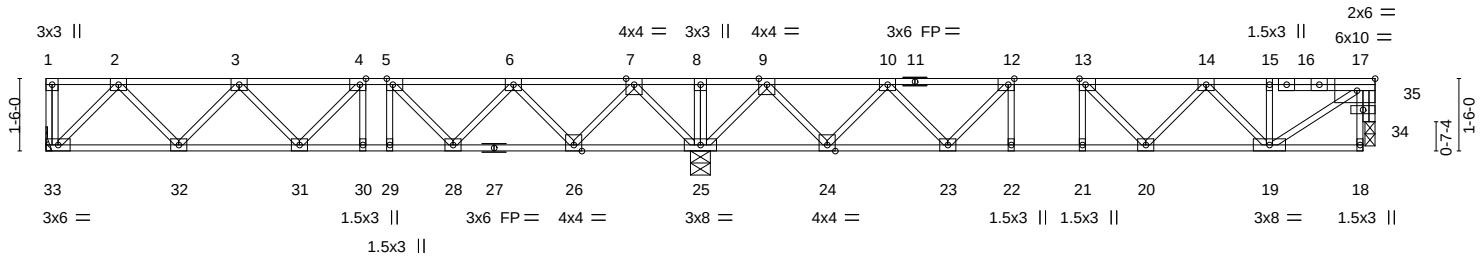
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F13	Floor	1	1	I50122992
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4?fTAwldU3zlmaWLZ2U_XHNto5?hueaeihJdsczn F9B

1-3-0 0-5-3 1-4-3 1-9-0

Scale: 1/4"=1'



13-6-11 27-6-6
13-6-11 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.12	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	35	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 33=Mechanical, 25=0-4-15, 35=0-2-8
Max Grav 33=749(LC 3), 25=2134(LC 1), 35=750(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1082/0, 3-4=-1521/0, 4-5=-1554/0, 5-6=-1238/24, 6-7=-346/520, 7-8=0/1774, 8-9=0/1774, 9-10=-328/448, 10-12=-1273/0, 12-13=-1642/0, 13-14=-1544/0, 14-15=-949/0, 15-17=-953/0
BOT CHORD	32-33=0/687, 31-32=0/1452, 30-31=0/1554, 29-30=0/1554, 28-29=0/1554, 26-28=-227/936, 25-26=-876/0, 24-25=-871/0, 23-24=-160/941, 22-23=0/1642, 21-22=0/1642, 20-21=0/1642, 19-20=0/1393
WEBS	2-33=-972/0, 2-32=0/587, 3-32=-551/0, 4-30=-256/26, 7-25=-1385/0, 7-26=0/991, 6-26=-956/0, 6-28=0/535, 5-28=-596/0, 5-29=-14/268, 9-25=-1416/0, 9-24=0/1016, 10-24=-976/0, 10-23=0/570, 12-23=-681/0, 12-22=0/251, 17-19=0/1046, 14-19=-642/0, 17-35=-772/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 35 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

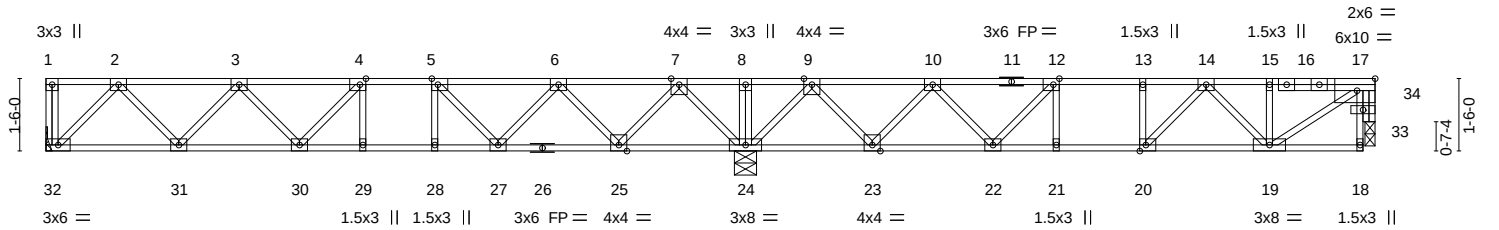
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F14	Floor	1	1	I50122993
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:23 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-YBDrOGmFFN5bNk5X7m0D3Uv2oVNYd5coxL3BO2znF9A

1-3-0 1-4-6 1-8-0 1-9-0

Scale: 1/4"=1'



14-5-14 27-6-6
14-5-14 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.08	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.13	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 24=0-5-8, 34=0-2-8
Max Grav 32=825(LC 3), 24=2112(LC 1), 34=690(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1226/0, 3-4=-1800/0, 4-5=-1870/0, 5-6=-1478/0, 6-7=-504/414, 7-8=0/1710, 8-9=0/1710, 9-10=-305/420, 10-12=-1140/0, 12-13=-1402/0, 13-14=-1402/0, 14-15=-873/0, 15-17=-877/0
BOT CHORD	31-32=0/760, 30-31=0/1670, 29-30=0/1870, 28-29=0/1870, 27-28=0/1870, 25-27=-120/1131, 24-25=-735/0, 23-24=-834/0, 22-23=-152/869, 21-22=0/1402, 20-21=0/1402, 19-20=0/1209
WEBS	7-24=-1448/0, 7-25=0/1046, 6-25=-1004/0, 6-27=0/600, 5-27=-735/0, 5-28=0/285, 2-32=-1075/0, 2-31=0/692, 3-31=-660/0, 4-29=-262/0, 9-24=-1330/0, 9-23=0/937, 10-23=-903/0, 10-22=0/485, 12-22=-555/0, 17-19=0/964, 14-19=-486/0, 14-20=-58/279, 17-34=-710/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F15	Floor	6	1	I50122994
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:24 2022 Page 1
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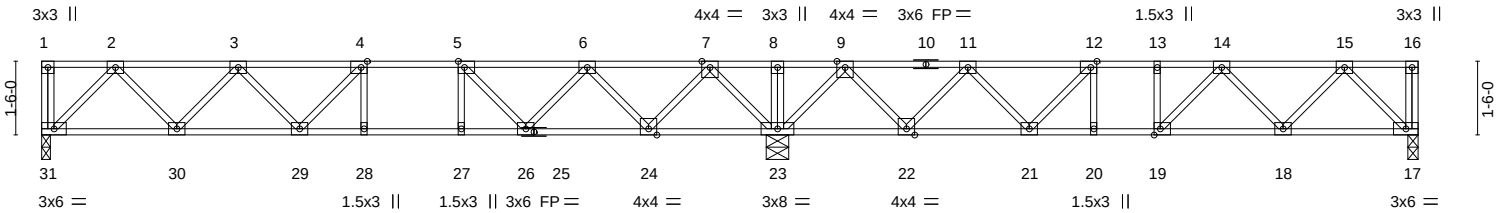
1-3-0 1-10-4 1-2-0

Scale = 1:46.9



14-11-12 28-0-4
14-11-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>949	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-2, 17=0-2-8, 23=0-5-8
Max Grav 31=856(LC 3), 17=724(LC 4), 23=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1284/0, 3-4=-1915/0, 4-5=-1999/0, 5-6=-1552/0, 6-7=-515/315, 7-8=0/1695, 8-9=0/1695, 9-11=-389/460, 11-12=-1206/0, 12-13=-1458/0, 13-14=-1458/0, 14-15=-1029/0
BOT CHORD 30-31=0/791, 29-30=0/1758, 28-29=0/1999, 27-28=0/1999, 26-27=0/1999, 24-26=-23/1168, 23-24=-760/0, 22-23=-760/0, 21-22=-185/944, 20-21=0/1458, 19-20=0/1458, 18-19=0/1363, 17-18=0/668
WEBS 2-31=-1118/0, 2-30=0/734, 3-30=-704/0, 7-23=-1476/0, 7-24=0/1067, 6-24=-1023/0, 6-26=0/635, 5-26=-787/0, 5-27=0/284, 4-28=-255/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 15-17=-944/0, 15-18=0/537, 14-18=-497/0, 12-21=-555/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F16	Floor	1	1	I50122995
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:26 2022 Page 1
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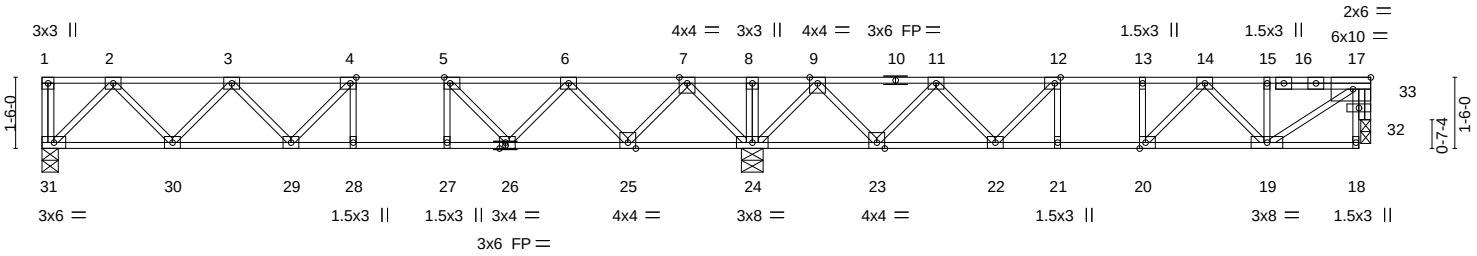
1-3-0 1-10-4 1-8-0 1-9-0

Scale = 1:48.6



14-11-12 28-0-4
14-11-12 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.19	28-29	>947	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
18-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
17-19: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 24=0-5-8, 33=0-2-8
Max Grav 31=862(LC 3), 24=2125(LC 1), 33=698(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1296/0, 3-4=-1939/0, 4-5=-2034/0, 5-6=-1598/0, 6-7=-573/337, 7-8=0/1657, 8-9=0/1657, 9-11=-365/405, 11-12=-1185/0, 12-13=-1434/0, 13-14=-1434/0, 14-15=-885/0, 15-17=-888/0

BOT CHORD 30-31=0/797, 29-30=0/1775, 28-29=0/2034, 27-28=0/2034, 26-27=0/2034, 25-26=-44/1221, 24-25=-725/0, 23-24=-769/0, 22-23=-138/922, 21-22=0/1434, 20-21=0/1434, 19-20=0/1228

WEBS 7-24=-1478/0, 7-25=0/1069, 6-25=-1025/0, 6-26=0/638, 5-26=-791/0, 5-27=0/286, 2-31=-1128/0, 2-30=0/742, 3-30=-712/0, 4-28=-258/0, 9-24=-1329/0, 9-23=0/936, 11-23=-903/0, 11-22=0/484, 12-22=-549/0, 17-19=0/977, 14-19=-498/0, 14-20=-53/297, 17-33=-718/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F17	Floor	1	1	I50122996
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:27 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-QyTMDdpmIcb1sLOIMb49EK4kb6iqZvnNsz1OXpznF96

1-3-0 0-11-1 1-4-3 1-9-0

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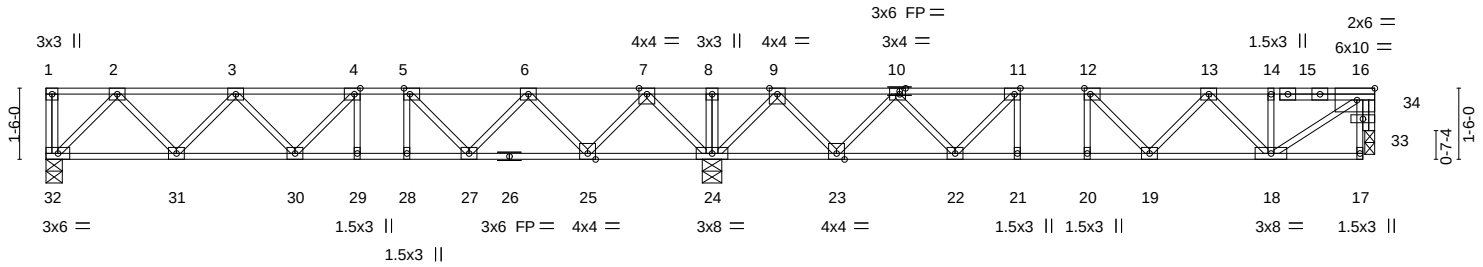

14-0-9 28-0-4
14-0-9 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.12	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 16-18: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-2, 24=0-4-15, 34=0-2-8
Max Grav 32=784(LC 3), 24=2157(LC 1), 34=754(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1148/0, 3-4=-1646/0, 4-5=-1690/0, 5-6=-1327/0, 6-7=-382/473, 7-8=0/1760, 8-9=0/1760, 9-10=-360/464, 10-11=-1298/0, 11-12=-1661/0, 12-13=-1557/0, 13-14=-955/0, 14-16=-959/0
BOT CHORD 31-32=0/720, 30-31=0/1553, 29-30=0/1690, 28-29=0/1690, 27-28=0/1690, 25-27=-179/997, 24-25=-793/0, 23-24=-858/0, 22-23=-175/970, 21-22=0/1661, 20-21=0/1661, 19-20=0/1661, 18-19=0/1402
WEBS 2-32=-1018/0, 2-31=0/636, 3-31=-602/0, 4-29=-251/0, 7-24=-1421/0, 7-25=0/1022, 6-25=-983/0, 6-27=0/571, 5-27=-675/0, 5-28=0/269, 9-24=-1415/0, 9-23=0/1015, 10-23=-974/0, 10-22=0/568, 11-22=-684/0, 11-21=0/252, 16-18=0/1053, 13-18=-647/0, 16-34=-776/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F18	Floor	1	1	I50122997
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:29 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NLa6eJq0qDrl5fYhT06dJl90UvQ41pCgJHWVbiznF94

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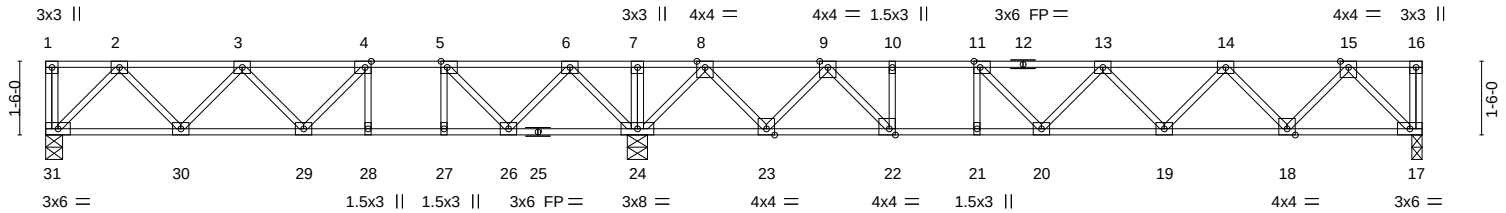

12-0-9 28-0-4
12-0-9 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-26,23-24.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 24=0-4-15
Max Grav 31=716(LC 3), 17=967(LC 7), 24=1996(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1019/0, 3-4=-1391/0, 4-5=-1298/0, 5-6=-721/186, 6-7=0/1016, 7-8=0/1016, 8-9=-965/0, 9-10=-2332/0, 10-11=-2332/0, 11-13=-2575/0, 13-14=-2339/0, 14-15=-1493/0
BOT CHORD 30-31=0/648, 29-30=0/1373, 28-29=0/1298, 27-28=0/1298, 26-27=0/1298, 24-26=-440/249, 23-24=-97/306, 22-23=0/1688, 21-22=0/2332, 20-21=0/2332, 19-20=0/2628, 18-19=0/2046, 17-18=0/909
WEBS 2-31=-917/0, 2-30=0/551, 3-30=-526/0, 4-29=0/315, 4-28=-308/0, 6-24=-1094/0, 6-26=0/771, 5-26=-946/0, 5-27=0/337, 8-24=-1461/0, 8-23=0/1016, 9-23=-1117/0, 9-22=0/1030, 10-22=-420/0, 15-17=-1286/0, 15-18=0/868, 14-18=-823/0, 14-19=0/435, 13-19=-430/0, 11-20=0/490, 11-21=-398/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F19	Floor	1	1	I50122998
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:30 2022 Page 1
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1-3-0 1-11-1 1-1-3

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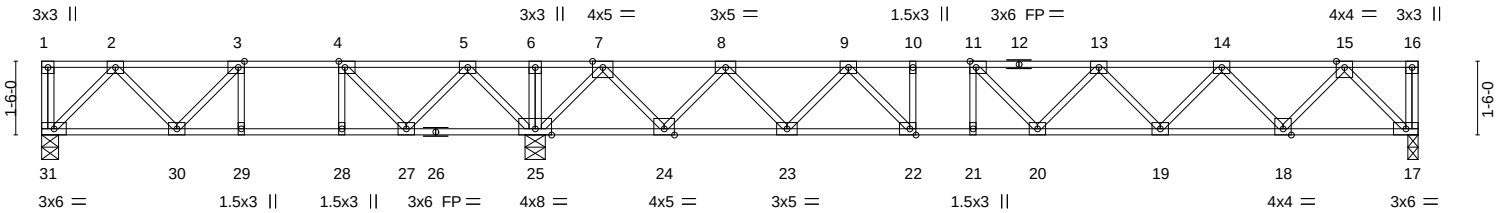

10-0-9 28-0-4
10-0-9 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.29	20-21	>729	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 25=0-4-15
Max Grav 31=547(LC 3), 17=1069(LC 7), 25=2121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-688/13, 3-4=-801/220, 4-5=-358/634, 5-6=0/1617, 6-7=0/1617, 7-8=-852/0, 8-9=-2194/0, 9-10=-3103/0, 10-11=-3103/0, 11-13=-3141/0, 13-14=-2718/0, 14-15=-1687/0
BOT CHORD 30-31=0/506, 29-30=-220/801, 28-29=-220/801, 27-28=-220/801, 25-27=-941/0, 24-25=-416/7, 23-24=0/1672, 22-23=0/2725, 21-22=0/3103, 20-21=0/3103, 19-20=0/3085, 18-19=0/2337, 17-18=0/1010
WEBS 2-31=-715/0, 2-30=-112/271, 3-30=-164/300, 5-25=-1046/0, 5-27=0/733, 4-27=-901/0, 4-28=0/303, 3-29=-271/0, 7-25=-1699/0, 7-24=0/1305, 8-24=-1265/0, 8-23=0/820, 9-23=-842/0, 9-22=0/746, 15-17=-1428/0, 15-18=0/1007, 14-18=-966/0, 14-19=0/566, 13-19=-546/0, 11-20=-187/296, 11-21=-283/2, 10-22=-295/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F20	Floor	1	1	I50122999
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:31 2022 Page 1
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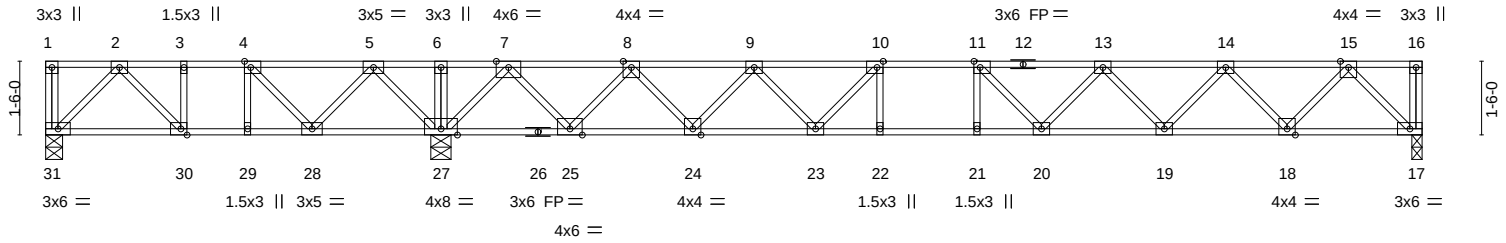

8-0-9 28-0-4
8-0-9 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	20-21	>664	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-2, 17=0-2-8, 27=0-4-15
Max Uplift 31=-145(LC 4)
Max Grav 31=336(LC 3), 17=1154(LC 7), 27=2335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-291/550, 3-4=-291/550, 4-5=0/1067, 5-6=0/2191, 6-7=0/2191, 7-8=-405/81, 8-9=-2089/0, 9-10=-3162/0, 10-11=-3657/0, 11-13=-3615/0, 13-14=-3034/0, 14-15=-1850/0
BOT CHORD 30-31=-182/258, 29-30=-550/291, 28-29=-550/291, 27-28=-1484/0, 25-27=-836/0, 24-25=0/1391, 23-24=0/2753, 22-23=0/3657, 21-22=0/3657, 20-21=0/3657, 19-20=0/3479, 18-19=0/2577, 17-18=0/1095
WEBS 2-31=-366/258, 2-30=-533/47, 5-27=-1112/0, 5-28=0/800, 4-28=-916/0, 4-29=0/256, 3-30=-41/252, 7-27=-1916/0, 7-25=0/1510, 8-25=-1489/0, 8-24=0/1061, 9-24=-1009/0, 9-23=0/667, 10-23=-895/0, 10-22=-31/348, 15-17=-1548/0, 15-18=0/1122, 14-18=-1081/0, 14-19=0/680, 13-19=-661/0, 13-20=0/315, 11-20=-329/242, 11-21=-317/62

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=145.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F21	Floor	3	1	I50123000
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:32 2022 Page 1
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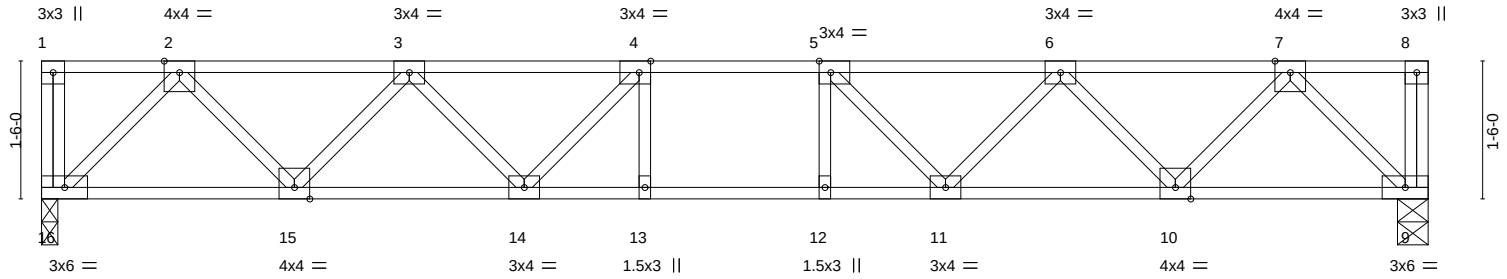

15-1-0
15-1-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.18	13-14	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-2-2, 9=0-4-0
Max Grav 16=964(LC 1), 9=964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1490/0, 3-4=-2320/0, 4-5=-2585/0, 5-6=-2320/0, 6-7=-1490/0
BOT CHORD 15-16=0/903, 14-15=0/2052, 13-14=0/2585, 12-13=0/2585, 11-12=0/2585, 10-11=0/2052, 9-10=0/903
WEBS 2-16=-1276/0, 2-15=0/874, 3-15=-834/0, 3-14=0/450, 4-14=-536/0, 7-9=-1276/0, 7-10=0/874, 6-10=-834/0, 6-11=0/450, 5-11=-536/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

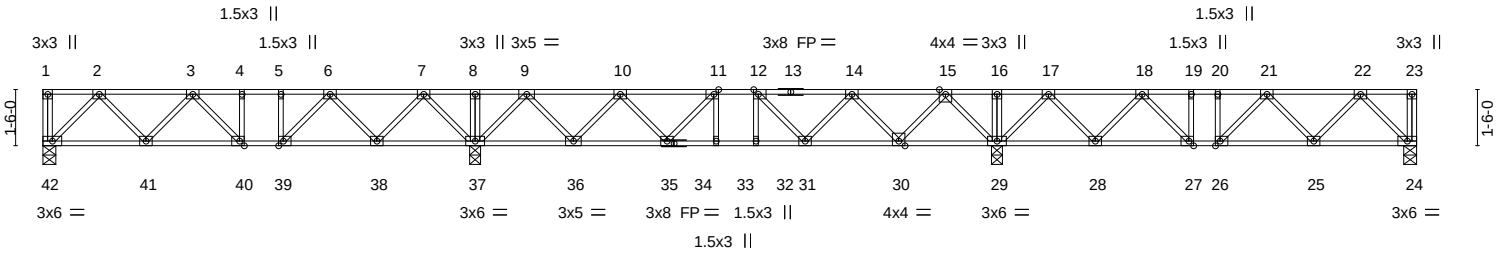
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F22	Floor	6	1	I50123001
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:34 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-jJO?h1u9flU2CQReGZio0osyjwCKi4oPTZDGHvznF9?

1-3-0 0-11-0 0-11-4 0-7-0

Scale = 1:61.5



11-6-8 25-5-12 36-8-4
11-6-8 13-11-4 11-2-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	40-41	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=643(LC 5), 24=618(LC 5), 37=1848(LC 3), 29=1849(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-880/0, 3-4=-1121/0, 4-5=-1121/0, 5-6=-1121/0, 6-7=-426/407, 7-8=0/1374, 8-9=0/1374, 9-10=-312/286, 10-11=-1026/8, 11-12=-1221/0, 12-14=-1010/10, 14-15=-273/291, 15-16=0/1429, 16-17=0/1429, 17-18=-386/461, 18-19=-1032/1, 19-20=-1032/1, 20-21=-1032/1, 21-22=-829/0
BOT CHORD 41-42=0/588, 40-41=0/1134, 39-40=0/1121, 38-39=-155/873, 37-38=-667/0, 36-37=-527/0, 35-36=-97/818, 33-35=0/1221, 32-33=0/1221, 31-32=0/1221, 30-31=-101/790, 29-30=-563/0, 28-29=-725/0, 27-28=-208/816, 26-27=-1/1032, 25-26=0/1063, 24-25=0/562
WEBS 2-42=-831/0, 2-41=0/434, 3-41=-378/0, 3-40=-265/12, 7-37=-1183/0, 7-38=0/769, 6-38=-766/0, 6-39=0/569, 5-39=-282/0, 9-37=-1216/0, 9-36=0/832, 10-36=-802/0, 10-35=0/364, 11-35=-355/0, 15-29=-1232/0, 15-30=0/847, 14-30=-816/0, 14-31=0/380, 12-31=-376/0, 17-29=-1169/0, 17-28=0/760, 18-28=-749/0, 18-27=0/527, 19-27=-253/0, 22-24=-795/0, 22-25=0/398, 21-25=-347/19, 21-26=-292/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 9,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

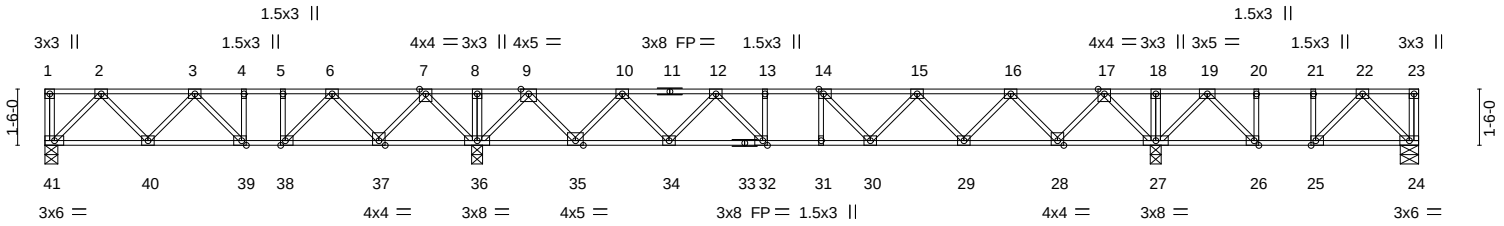
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F23	Floor	4	1	I50123002
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ghVm6iwPBNklRka1N_lG5DyEDkpfAxKiwtiNKoznF8z

1-3-0 0-11-0 1-4-8 1-4-12

Scale = 1:61.5



11-6-8	29-8-0	36-8-4
11-6-8	18-1-8	7-0-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.15	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	30-31	>944	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 24=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 41=612(LC 5), 24=347(LC 5), 36=2233(LC 16), 27=1860(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-822/0, 3-4=-992/278, 4-5=-992/278, 5-6=-992/278, 6-7=-226/935, 7-8=0/2022, 8-9=0/2022, 9-10=-229/259, 10-12=-1502/0, 12-13=-2326/0, 13-14=-2326/0, 14-15=-2277/0, 15-16=-1719/0, 16-17=-596/0, 17-18=0/1360, 18-19=0/1360, 19-20=-298/423, 20-21=-298/423, 21-22=-298/423
BOT CHORD 40-41=0/557, 39-40=-51/1046, 38-39=-278/992, 37-38=-604/704, 36-37=-1265/0, 35-36=-858/0, 34-35=0/1014, 32-34=0/1994, 31-32=0/2326, 30-31=0/2326, 29-30=0/2151, 28-29=0/1286, 27-28=-309/0, 26-27=-881/0, 25-26=-423/298, 24-25=-124/265
WEBS 2-41=-788/0, 2-40=-39/394, 3-40=-333/113, 7-36=-1290/0, 7-37=0/869, 6-37=-879/0, 6-38=0/731, 3-39=-428/0, 5-38=-358/0, 9-36=-1646/0, 9-35=0/1247, 10-35=-1208/0, 10-34=0/765, 12-34=-778/0, 12-32=0/676, 17-27=-1514/0, 17-28=0/1124, 16-28=-1074/0, 16-29=0/668, 15-29=-648/0, 13-32=-289/0, 19-27=-877/0, 19-26=0/841, 20-26=-447/0, 22-24=-375/175, 22-25=-432/48

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F24	Floor	1	1	I50123003
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:38 2022 Page 1
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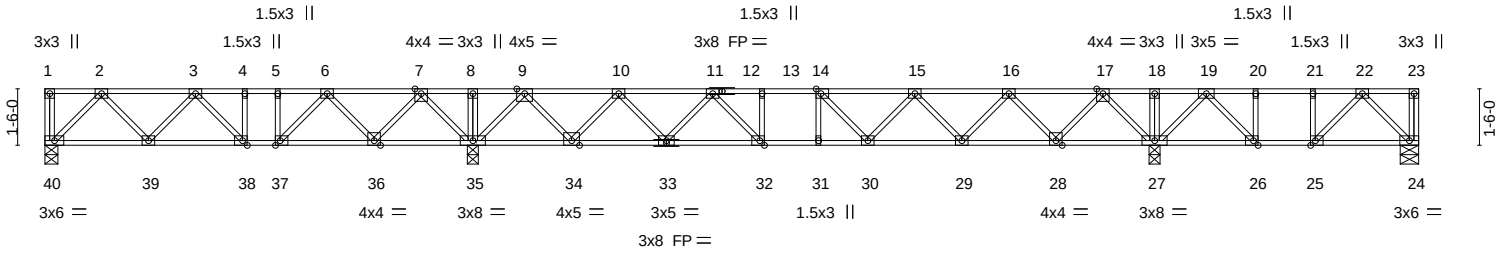
Scale = 1:61.3



11-4-8 | 29-6-0 | 36-6-4
11-4-8 | 18-1-8 | 7-0-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [32:0-1-8,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.23	30-31	>953	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 40=0-4-2, 24=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24
Max Grav All reactions 250 lb or less at joint(s) except 40=598(LC 5), 24=348(LC 5), 35=2233(LC 16), 27=1854(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-795/0, 3-4=-944/312, 4-5=-944/312, 5-6=-944/312, 6-7=-202/964, 7-8=0/2057, 8-9=0/2057, 9-10=-199/268, 10-11=-1479/0, 11-13=-2312/0, 13-14=-2312/0, 14-15=-2268/0, 15-16=-1715/0, 16-17=-600/0, 17-18=0/1350, 18-19=0/1350, 19-20=-300/418, 20-21=-300/418, 21-22=-300/418
BOT CHORD 39-40=0/543, 38-39=-83/1007, 37-38=-312/944, 36-37=-631/672, 35-36=-1298/0, 34-35=-890/0, 33-34=0/987, 32-33=0/1975, 31-32=0/2312, 30-31=0/2312, 29-30=0/2145, 28-29=0/1286, 27-28=-303/0, 26-27=-873/0, 25-26=-418/300, 24-25=-122/266
WEBS 2-40=-768/0, 2-39=-57/374, 3-39=-316/126, 3-38=-439/0, 7-35=-1286/0, 7-36=0/868, 6-36=-872/0, 6-37=0/707, 5-37=-342/0, 9-35=-1651/0, 9-34=0/1252, 10-34=-1212/0, 10-33=0/769, 11-33=-784/0, 11-32=0/680, 17-27=-1510/0, 17-28=0/1119, 16-28=-1070/0, 16-29=0/663, 15-29=-644/0, 13-32=-288/0, 19-27=-874/0, 19-26=0/836, 20-26=-445/0, 22-24=-376/173, 22-25=-428/49

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F25	Floor	4	1	I50123004
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:39 2022 Page 1
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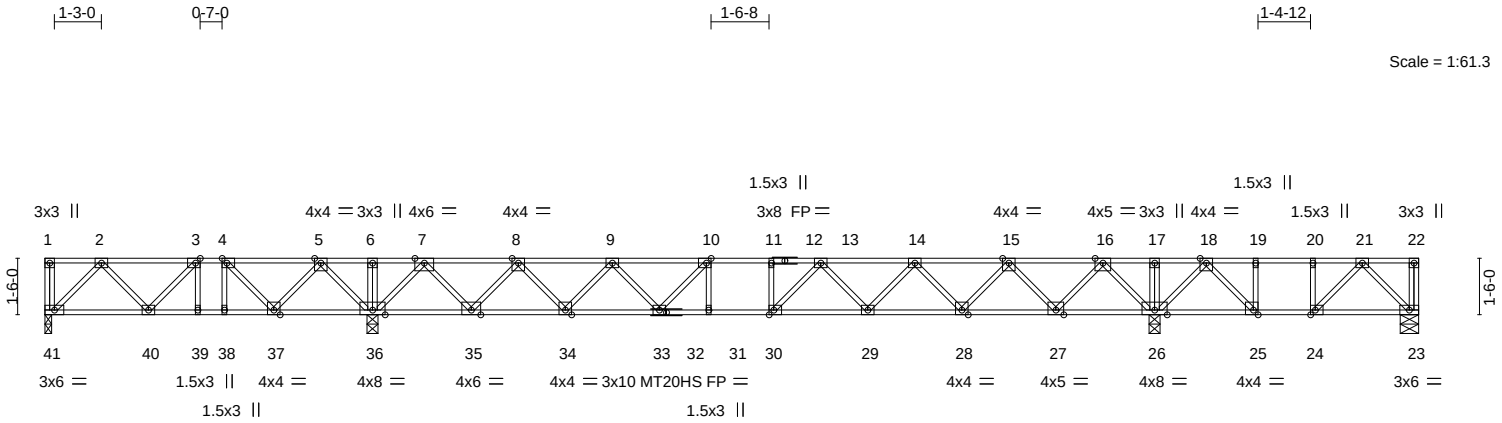

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.21	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.34	29-30	>741	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 12-22: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 23-32: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-2, 23=0-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-191(LC 6), 23=-172(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=375(LC 5), 23=308(LC 5), 36=2405(LC 16), 26=2104(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/497, 3-4=-329/917, 4-5=0/1475, 5-6=0/2639, 6-7=0/2639, 7-8=0/318, 8-9=-1443/0, 9-10=-2481/0, 10-11=-2921/0, 11-13=-2921/0, 13-14=-2705/0, 14-15=-1870/0, 15-16=-458/0, 16-17=0/1815, 17-18=0/1815, 18-19=-200/646, 19-20=-200/646, 20-21=-200/646
BOT CHORD 40-41=-196/330, 39-40=-917/329, 38-39=-917/329, 37-38=-917/329, 36-37=-1946/0, 35-36=-1307/0, 34-35=0/764, 33-34=0/2091, 31-33=0/2921, 30-31=0/2921, 29-30=0/2949, 28-29=0/2423, 27-28=0/1305, 26-27=-601/0, 25-26=-1243/0, 24-25=-646/200
WEBS 2-41=-467/277, 2-40=-448/43, 3-40=0/607, 3-39=-419/0, 5-36=-1254/0, 5-37=0/906, 7-36=-1884/0, 7-35=0/1475, 8-35=-1454/0, 8-34=0/1028, 9-34=-983/0, 9-33=0/614, 16-26=-1728/0, 16-27=0/1340, 15-27=-1286/0, 15-28=0/865, 14-28=-847/0, 14-29=0/441, 13-29=-370/0, 10-33=-754/0, 13-30=-276/281, 18-26=-996/0, 18-25=0/1041, 19-25=-557/0, 21-23=-320/300, 21-24=-629/0, 20-24=-15/316, 4-37=-1027/0, 4-38=0/433

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 41 and 172 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F26	Floor	7	1	I50123005
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:41 2022 Page 1
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1-3-0 0-6-0 0-11-4 0-9-12

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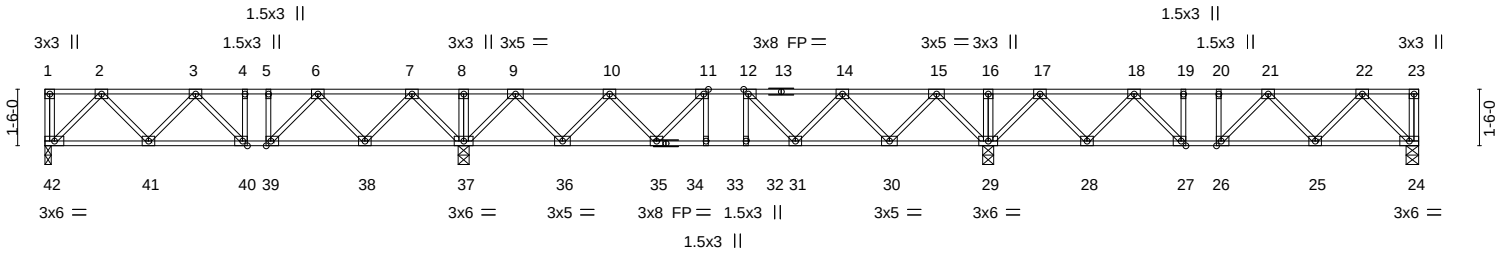

11-1-8 25-0-12 36-6-0
11-1-8 13-11-4 11-5-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=635(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/13, 4-5=-1012/13, 5-6=-1012/13, 6-7=-378/469, 7-8=0/1435, 8-9=0/1435, 9-10=-263/291, 10-11=-998/11, 11-12=-1208/0, 12-14=-1012/10, 14-15=-296/289, 15-16=0/1390, 16-17=0/1390, 17-18=-412/422, 18-19=-1092/0, 19-20=-1092/0, 20-21=-1092/0, 21-22=-864/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-13/1012, 38-39=-217/803, 37-38=-734/0, 36-37=-569/0, 35-36=-101/779, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-100/803, 29-30=-540/0, 28-29=-683/0, 27-28=-171/854, 26-27=0/1092, 25-26=0/1111, 24-25=0/580
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1165/0, 7-38=0/757, 6-38=-743/0, 6-39=0/514, 3-40=-296/0, 9-37=-1231/0, 9-36=0/845, 10-36=-814/0, 10-35=0/378, 11-35=-374/0, 15-29=-1217/0, 15-30=0/833, 14-30=-803/0, 14-31=0/365, 12-31=-356/0, 17-29=-1178/0, 17-28=0/766, 18-28=-760/0, 18-27=0/556, 22-24=-820/0, 22-25=0/422, 21-25=-368/2, 21-26=-275/3, 19-27=-273/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F27	Floor	5	1	I50123006
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-y1RPa5?oXWcmnpdNIyNvtikPHZB8J62kXSvE4uznF8s

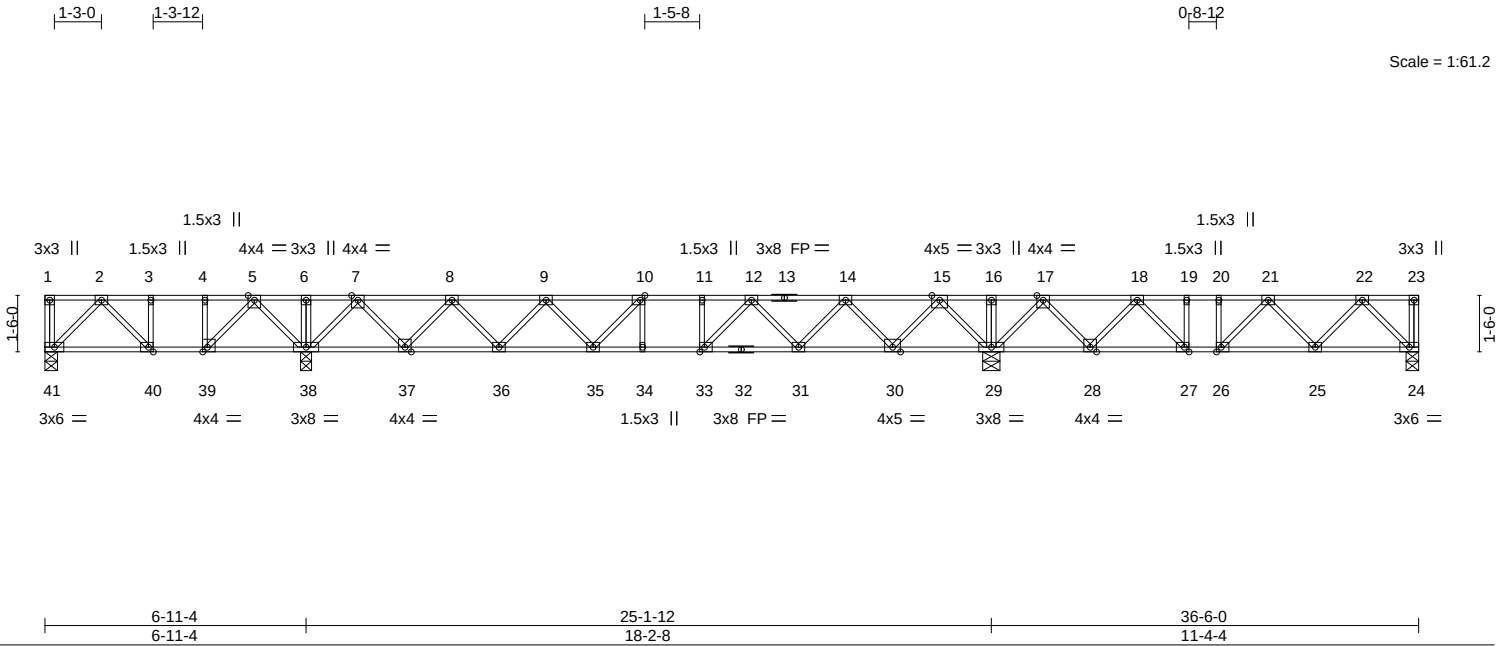

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.15	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	34-35	>941	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-5-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-104(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=334(LC 5), 24=597(LC 5), 38=1882(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/466, 3-4=-270/466, 4-5=-270/466, 5-6=0/1433, 6-7=0/1433, 7-8=-529/0, 8-9=-1671/0, 9-10=-2245/0, 10-11=-2301/0, 11-12=-2301/0, 12-14=-1469/0, 14-15=-191/266, 15-16=0/2057, 16-17=0/2057, 17-18=-203/969, 18-19=-941/317, 19-20=-941/317, 20-21=-941/317, 21-22=-792/2
BOT CHORD 40-41=-145/252, 39-40=-466/270, 38-39=-943/0, 37-38=-375/0, 36-37=0/1227, 35-36=0/2111, 34-35=0/2301, 33-34=0/2301, 31-33=0/1963, 30-31=0/978, 29-30=-891/0, 28-29=-1304/0, 27-28=-635/671, 26-27=-317/941, 25-26=-88/1004, 24-25=0/542
WEBS 2-41=-357/205, 2-40=-465/26, 5-38=-896/0, 5-39=0/860, 4-39=-454/0, 7-38=-1526/0, 7-37=0/1135, 8-37=-1085/0, 8-36=0/679, 9-36=-659/0, 9-35=0/255, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-781/0, 12-33=0/679, 11-33=-293/0, 17-29=-1285/0, 17-28=0/867, 18-28=-871/0, 18-27=0/704, 19-27=-340/0, 22-24=-766/0, 22-25=-60/372, 21-25=-315/128, 21-26=-440/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F28	Floor	3	1	I50123007
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:45 2022 Page 1
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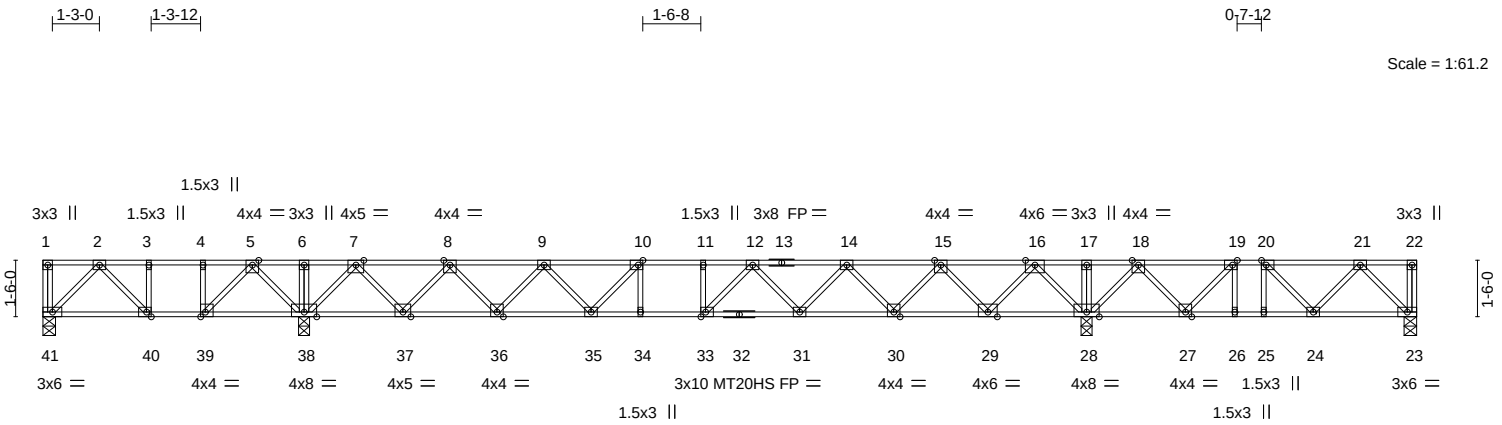

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.18	33-34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>858	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 28=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-168(LC 6), 23=-208(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=306(LC 5), 23=371(LC 5), 38=2080(LC 3), 28=2440(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-201/625, 3-4=-201/625, 4-5=-201/625, 5-6=0/1757, 6-7=0/1757, 7-8=-480/0, 8-9=-1876/0, 9-10=-2674/0, 10-11=-2932/0, 11-12=-2932/0, 12-14=-2413/0, 14-15=-1354/0, 15-16=0/436, 16-17=0/2774, 17-18=0/2774, 18-19=0/1571, 19-20=-311/980, 20-21=-351/530
BOT CHORD 39-40=-625/201, 38-39=-1203/0, 37-38=-556/0, 36-37=0/1317, 35-36=0/2415, 34-35=0/2932, 33-34=0/2932, 31-33=0/2782, 30-31=0/2022, 29-30=0/661, 28-29=-1433/0, 27-28=-2063/0, 26-27=-980/311, 25-26=-980/311, 24-25=-980/311, 23-24=-211/328
WEBS 2-41=-320/287, 2-40=-611/0, 5-38=-974/0, 5-39=0/1008, 4-39=-555/0, 3-40=-8/322, 7-38=-1710/0, 7-37=0/1320, 8-37=-1271/0, 8-36=0/854, 9-36=-825/0, 9-35=0/461, 10-35=-518/0, 16-28=-1901/0, 16-29=0/1490, 15-29=-1466/0, 15-30=0/1050, 14-30=-1013/0, 14-31=0/598, 12-31=-571/0, 12-33=-53/501, 18-28=-1282/0, 18-27=0/940, 19-27=-1078/0, 21-23=-463/298, 21-24=-476/35, 20-24=0/651, 20-25=-437/0, 19-26=0/452

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 41 and 208 lb uplift at joint 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F29	Floor	2	1	I50123008
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:47 2022 Page 1
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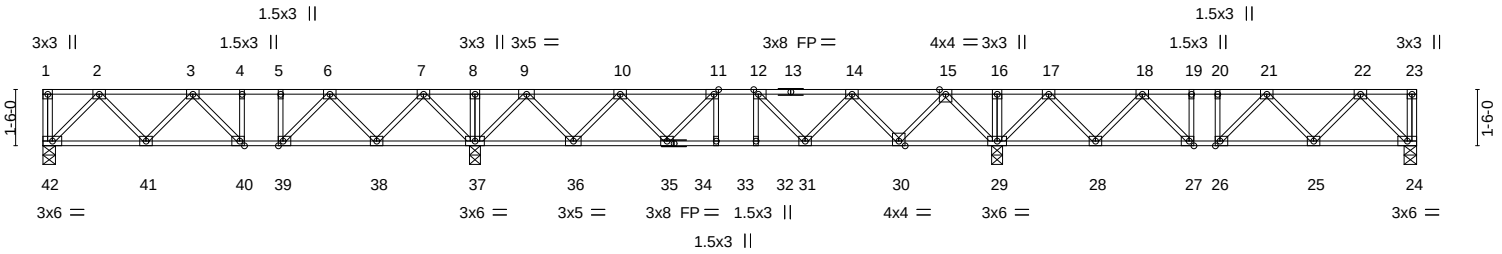
1-3-0 0-10-14 0-11-4 0-6-14

Scale = 1:61.5



11-6-6 25-5-10 36-8-0
11-6-6 13-11-4 11-2-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	40-41	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=643(LC 5), 24=617(LC 5), 37=1847(LC 3), 29=1849(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-878/0, 3-4=-1118/0, 4-5=-1118/0, 5-6=-1118/0, 6-7=-425/408, 7-8=0/1376, 8-9=0/1376, 9-10=-310/286, 10-11=-1025/8, 11-12=-1220/0, 12-14=-1008/10, 14-15=-272/291, 15-16=0/1430, 16-17=0/1430, 17-18=-385/462, 18-19=-1030/2, 19-20=-1030/2, 20-21=-1030/2, 21-22=-828/0
BOT CHORD 41-42=0/587, 40-41=0/1132, 39-40=0/1118, 38-39=-157/871, 37-38=-668/0, 36-37=-528/0, 35-36=-97/817, 33-35=0/1220, 32-33=0/1220, 31-32=0/1220, 30-31=-101/789, 29-30=-564/0, 28-29=-727/0, 27-28=-209/814, 26-27=-2/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-830/0, 2-41=0/433, 3-41=-377/0, 3-40=-266/11, 7-37=-1182/0, 7-38=0/769, 6-38=-765/0, 6-39=0/567, 5-39=-281/0, 9-37=-1216/0, 9-36=0/832, 10-36=-802/0, 10-35=0/364, 11-35=-355/0, 15-29=-1232/0, 15-30=0/847, 14-30=-816/0, 14-31=0/380, 12-31=-376/0, 17-29=-1169/0, 17-28=0/760, 18-28=-748/0, 18-27=0/525, 19-27=-252/0, 22-24=-794/0, 22-25=0/397, 21-25=-346/19, 21-26=-293/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F30	Floor	1	1	I50123009
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:49 2022 Page 1
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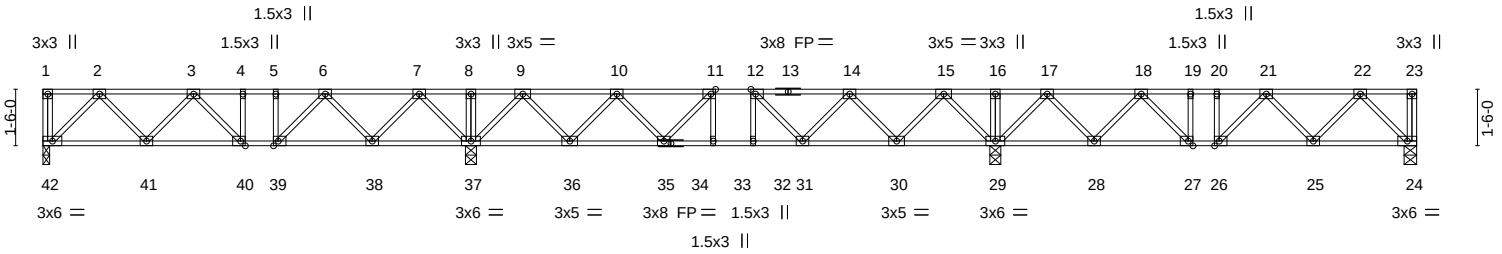
Scale = 1:61.2



11-4-8 25-3-12 36-6-2
11-4-8 13-11-4 11-2-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-2, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=617(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-854/0, 3-4=-1075/0, 4-5=-1075/0, 5-6=-1075/0, 6-7=-405/433, 7-8=0/1401, 8-9=0/1401, 9-10=-288/290, 10-11=-1008/11, 11-12=-1208/0, 12-14=-1000/12, 14-15=-270/291, 15-16=0/1426, 16-17=0/1426, 17-18=-385/459, 18-19=-1030/0, 19-20=-1030/0, 20-21=-1030/0, 21-22=-828/0
BOT CHORD 41-42=0/575, 40-41=0/1098, 39-40=0/1075, 38-39=-181/844, 37-38=-695/0, 36-37=-547/0, 35-36=-101/798, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-102/784, 29-30=-564/0, 28-29=-723/0, 27-28=-207/815, 26-27=-0/1030, 25-26=0/1061, 24-25=0/561
WEBS 2-42=-813/0, 2-41=0/416, 3-41=-362/7, 3-40=-280/0, 7-37=-1176/0, 7-38=0/764, 6-38=-757/0, 6-39=0/548, 5-39=-268/0, 9-37=-1220/0, 9-36=0/836, 10-36=-805/0, 10-35=0/368, 11-35=-360/0, 15-29=-1228/0, 15-30=0/843, 14-30=-812/0, 14-31=0/376, 12-31=-370/0, 17-29=-1168/0, 17-28=0/759, 18-28=-747/0, 18-27=0/524, 19-27=-252/0, 22-24=-794/0, 22-25=0/397, 21-25=-346/19, 21-26=-292/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

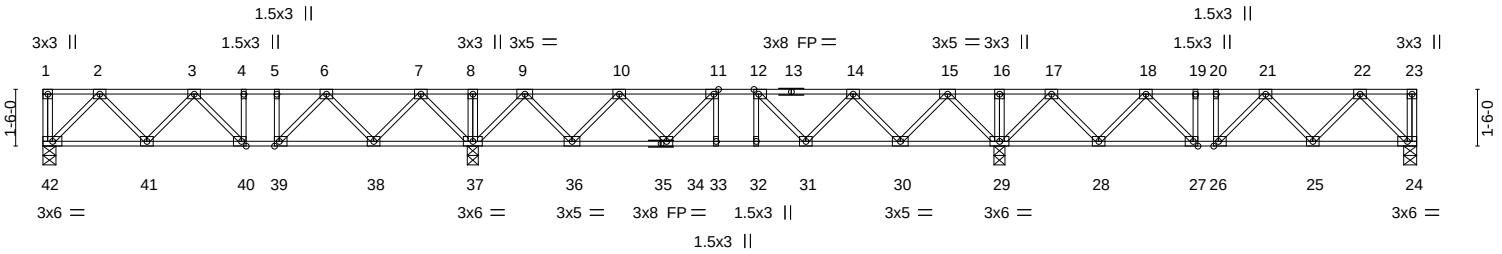
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F31	Floor	9	1	I50123010
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-javRGr5pf_ddk1EwmeWnCO3sRn0CBm1vNirgMQznF8k

1-3-0 0-9-0 0-11-4 0-5-0

Scale = 1:61.0



11-4-8 25-3-12 36-4-4
11-4-8 13-11-4 11-0-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=630(LC 5), 24=606(LC 5), 37=1843(LC 3), 29=1841(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-854/0, 3-4=-1075/0, 4-5=-1075/0, 5-6=-1075/0, 6-7=-405/431, 7-8=0/1399, 8-9=0/1399, 9-10=-287/290, 10-11=-1003/11, 11-12=-1199/0, 12-14=-989/11, 14-15=-255/290, 15-16=0/1440, 16-17=0/1440, 17-18=-371/476, 18-19=-992/25, 19-20=-992/25, 20-21=-992/25, 21-22=-806/0
BOT CHORD 41-42=0/575, 40-41=0/1098, 39-40=0/1075, 38-39=-179/843, 37-38=-693/0, 36-37=-547/0, 34-36=-101/794, 33-34=0/1199, 32-33=0/1199, 31-32=0/1199, 30-31=-100/771, 29-30=-573/0, 28-29=-742/0, 27-28=-225/792, 26-27=-25/992, 25-26=0/1029, 24-25=0/550
WEBS 2-42=-813/0, 2-41=0/416, 3-41=-362/6, 3-40=-280/0, 7-37=-1175/0, 7-38=0/764, 6-38=-757/0, 6-39=0/548, 5-39=-268/0, 9-37=-1217/0, 9-36=0/833, 10-36=-803/0, 10-34=0/365, 11-34=-356/0, 15-29=-1230/0, 15-30=0/845, 14-30=-814/0, 14-31=0/378, 12-31=-373/0, 17-29=-1160/0, 17-28=0/753, 18-28=-738/0, 18-27=0/501, 22-24=-778/0, 22-25=0/381, 21-25=-332/28, 21-26=-299/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

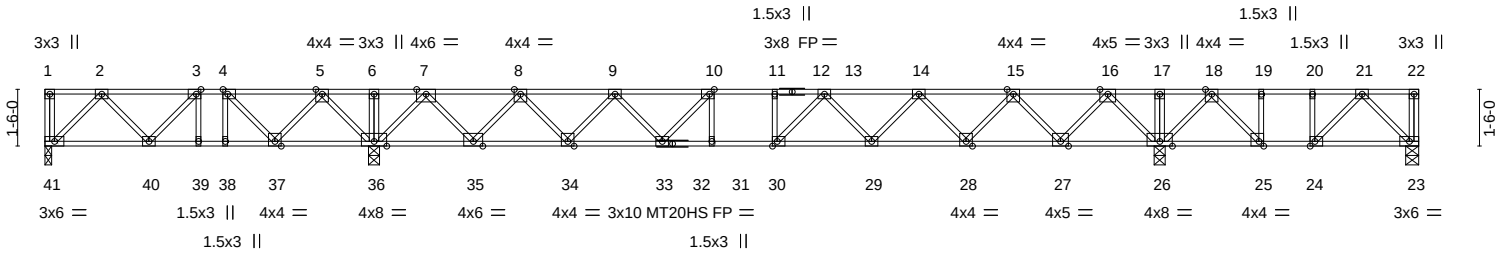
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F32	Floor	3	1	I50123011
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:53 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gz1BhW74BbtL_LOIt3YFHp96kbb7fcyCq0KmRJznF8i

1-3-0 0-7-0 1-6-8 1-2-12

Scale = 1:61.0



8-8-8 29-6-0 36-4-4
8-8-8 20-9-8 6-10-4

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.20	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	29-30	>771	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 12-22: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 23-32: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-2, 23=0-4-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-186(LC 6), 23=-216(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=377(LC 5), 23=282(LC 5), 36=2388(LC 16), 26=2145(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-363/489, 3-4=-334/904, 4-5=0/1456, 5-6=0/2611, 6-7=0/2611, 7-8=0/314, 8-9=-1425/0, 9-10=-2442/0, 10-11=-2863/0, 11-13=-2863/0, 13-14=-2616/0, 14-15=-1756/0, 15-16=-321/0, 16-17=0/1955, 17-18=0/1955, 18-19=-148/731, 19-20=-148/731, 20-21=-148/731
BOT CHORD	40-41=-192/332, 39-40=-904/334, 38-39=-904/334, 37-38=-904/334, 36-37=-1923/0, 35-36=-1291/0, 34-35=0/757, 33-34=0/2064, 31-33=0/2863, 30-31=0/2863, 29-30=0/2873, 28-29=0/2320, 27-28=0/1179, 26-27=-730/0, 25-26=-1361/0, 24-25=-731/148, 23-24=-255/201
WEBS	2-41=-469/272, 2-40=-442/46, 5-36=-1249/0, 5-37=0/900, 4-37=-1019/0, 4-38=0/430, 3-40=0/600, 3-39=-416/0, 7-36=-1867/0, 7-35=0/1458, 8-35=-1436/0, 8-34=0/1012, 9-34=-967/0, 9-33=0/598, 10-33=-730/0, 16-26=-1744/0, 16-27=0/1355, 15-27=-1302/0, 15-28=0/881, 14-28=-862/0, 14-29=0/455, 13-29=-388/0, 13-30=-252/295, 18-26=-1037/0, 18-25=0/1075, 19-25=-571/0, 21-23=-285/361, 21-24=-690/0, 20-24=0/347

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 41 and 216 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

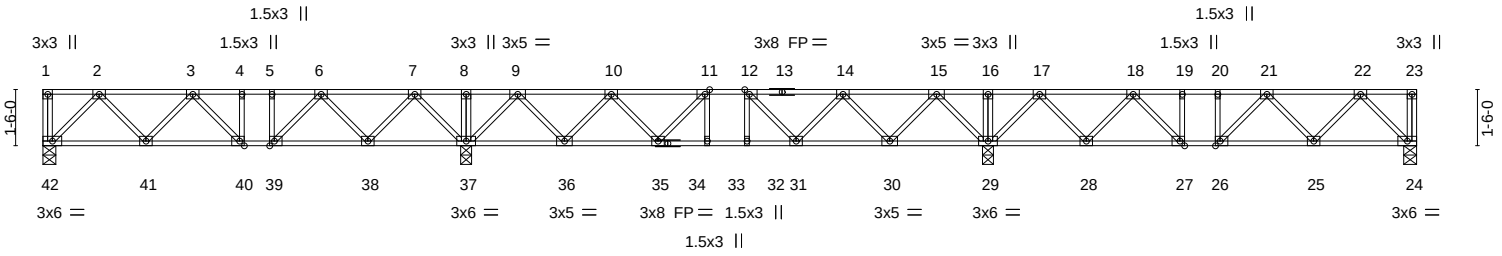
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F33	Floor	1	1	I50123012
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-89bZus8ixv?CbVzURm3Uq0hMi_1WO7nM3g3KzlznF8h

1-3-0 0-8-2 0-11-4 0-9-14

Scale = 1:61.5



11-3-10 25-2-14 36-8-4
11-3-10 13-11-4 11-5-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=625(LC 5), 24=636(LC 5), 37=1849(LC 3), 29=1848(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-843/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-1056/0, 6-7=-396/447, 7-8=0/1416, 8-9=0/1416, 9-10=-282/291, 10-11=-1013/11, 11-12=-1220/0, 12-14=-1020/10, 14-15=-299/289, 15-16=0/1392, 16-17=0/1392, 17-18=-414/423, 18-19=-1095/0, 19-20=-1095/0, 20-21=-1095/0, 21-22=-865/0
BOT CHORD 41-42=0/569, 40-41=0/1082, 39-40=0/1056, 38-39=-194/831, 37-38=-710/0, 36-37=-555/0, 35-36=-101/796, 33-35=0/1220, 32-33=0/1220, 31-32=0/1220, 30-31=-100/809, 29-30=-539/0, 28-29=-684/0, 27-28=-171/856, 26-27=0/1095, 25-26=0/1114, 24-25=0/581
WEBS 2-42=-805/0, 2-41=0/408, 3-41=-355/12, 3-40=-286/0, 7-37=-1173/0, 7-38=0/763, 6-38=-754/0, 6-39=0/539, 5-39=-262/0, 9-37=-1228/0, 9-36=0/843, 10-36=-812/0, 10-35=0/376, 11-35=-370/0, 15-29=-1221/0, 15-30=0/836, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1179/0, 17-28=0/767, 18-28=-761/0, 18-27=0/558, 19-27=-275/0, 22-24=-821/0, 22-25=0/424, 21-25=-369/2, 21-26=-274/4

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F34	Floor	2	1	I50123013
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:57 2022 Page 1
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1-3-0 0-8-2 0-11-4 0-7-14

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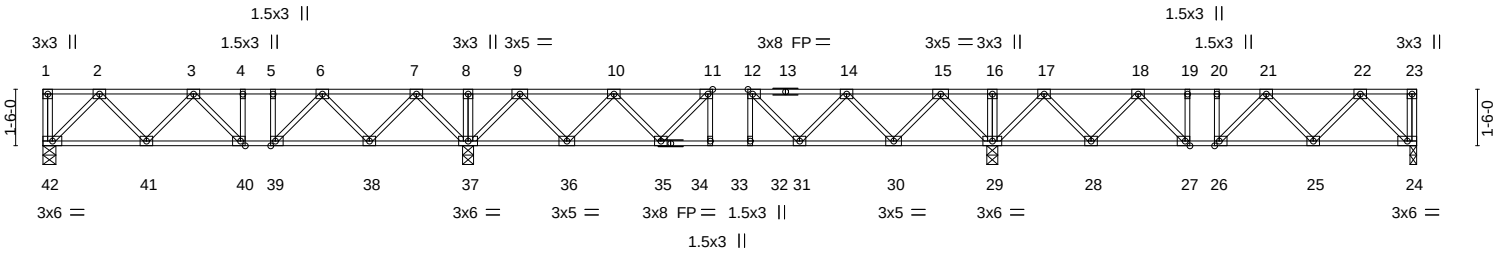

11-3-10 25-2-14 36-6-4
11-3-10 13-11-4 11-3-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-4-2, 24=0-2-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=625(LC 5), 24=623(LC 5), 37=1846(LC 3), 29=1846(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-844/0, 3-4=-1056/0, 4-5=-1056/0, 5-6=-1056/0, 6-7=-396/444, 7-8=0/1412, 8-9=0/1412, 9-10=-280/291, 10-11=-1005/12, 11-12=-1208/0, 12-14=-1004/12, 14-15=-278/291, 15-16=0/1415, 16-17=0/1415, 17-18=-394/447, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-840/0
BOT CHORD 41-42=0/569, 40-41=0/1083, 39-40=0/1056, 38-39=-192/831, 37-38=-707/0, 36-37=-555/0, 35-36=-102/792, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-102/790, 29-30=-557/0, 28-29=-711/0, 27-28=-195/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-805/0, 2-41=0/408, 3-41=-355/12, 3-40=-285/0, 7-37=-1173/0, 7-38=0/762, 6-38=-753/0, 6-39=0/539, 5-39=-262/0, 9-37=-1224/0, 9-36=0/839, 10-36=-808/0, 10-35=0/371, 11-35=-365/0, 15-29=-1225/0, 15-30=0/840, 14-30=-809/0, 14-31=0/372, 12-31=-366/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/13, 21-26=-287/0, 17-29=-1172/0, 17-28=0/762, 18-28=-752/0, 18-27=0/536, 19-27=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F35	Floor	3	1	I50123014
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:59 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-U6OSxaBrmRdViGrSEKffX4PDR?lc3O25Dyn5eyznF8c

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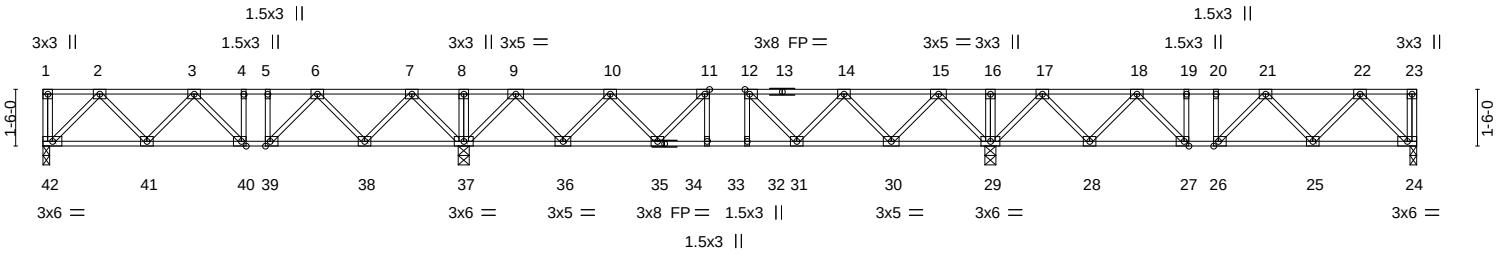

11-1-10 25-0-14 36-4-4
11-1-10 13-11-4 11-3-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=623(LC 5), 37=1842(LC 3), 29=1843(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-819/0, 3-4=-1015/9, 4-5=-1015/9, 5-6=-1015/9, 6-7=-380/465, 7-8=0/1431, 8-9=0/1431, 9-10=-262/291, 10-11=-992/12, 11-12=-1198/0, 12-14=-997/12, 14-15=-276/291, 15-16=0/1413, 16-17=0/1413, 17-18=-394/445, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-840/0
BOT CHORD 41-42=0/557, 40-41=0/1048, 39-40=-9/1015, 38-39=-213/805, 37-38=-730/0, 36-37=-568/0, 35-36=-102/776, 33-35=0/1198, 32-33=0/1198, 31-32=0/1198, 30-31=-102/786, 29-30=-557/0, 28-29=-708/0, 27-28=-193/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-787/0, 2-41=0/390, 3-41=-340/22, 3-40=-295/0, 7-37=-1165/0, 7-38=0/756, 6-38=-743/0, 6-39=0/515, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1171/0, 17-28=0/761, 18-28=-752/0, 18-27=0/535, 19-27=-259/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/13, 21-26=-286/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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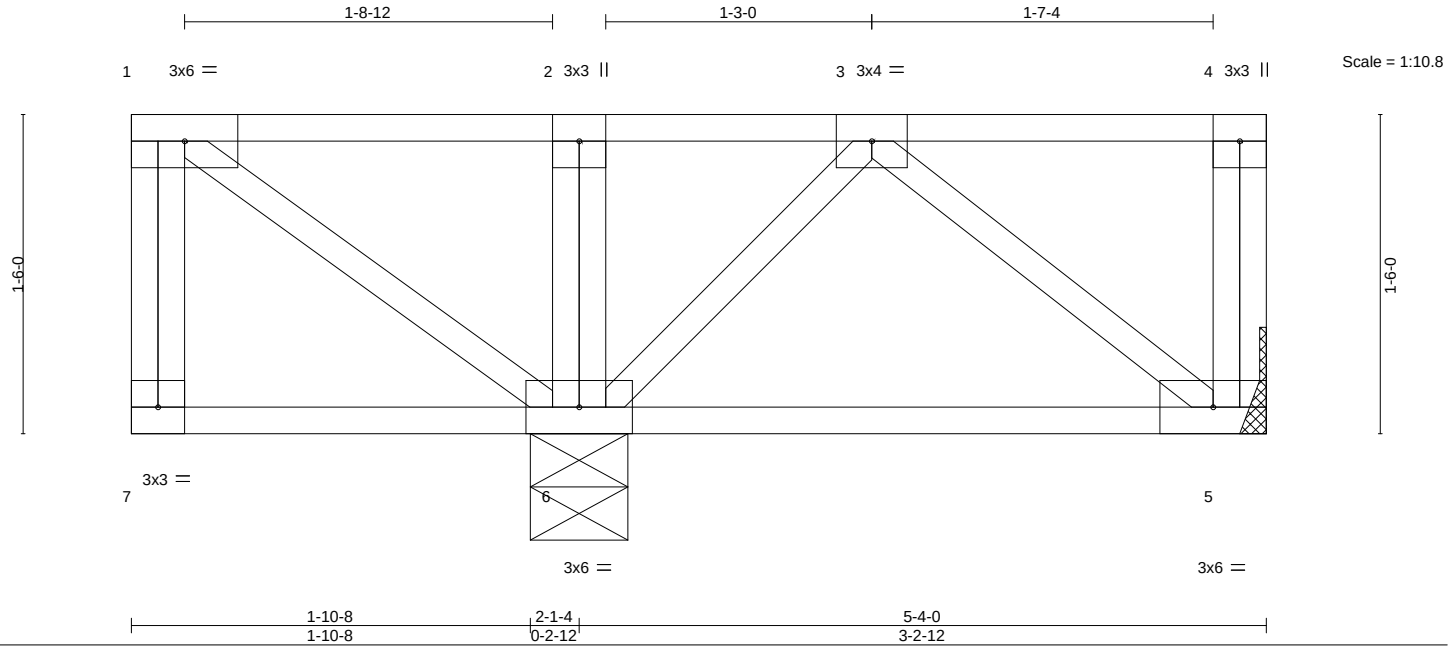
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F36	Floor	5	1	I50123015
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:05:59 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-U6OSxaBrmRdViGrSEKffX4PDF?qc3RE5Dyn5eyznF8c



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-383(LC 3)
Max Grav 5=25(LC 4), 6=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-536/0
WEBS 1-6=-1220/0, 3-6=-772/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 383 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F37	Floor	5	1	I50123016
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:01 2022 Page 1
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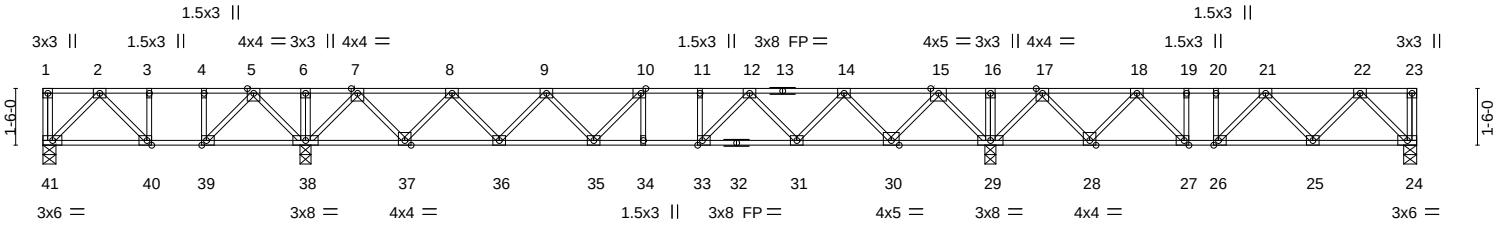
1-3-0 1-3-14 1-4-8 0-7-14

Scale = 1:61.0



6-11-6 25-0-14 36-4-4
6-11-6 18-1-8 11-3-6

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>965	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=338(LC 5), 24=590(LC 5), 38=1865(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/447, 3-4=-280/447, 4-5=-280/447, 5-6=0/1395, 6-7=0/1395, 7-8=-550/0, 8-9=-1671/0, 9-10=-2227/0, 10-11=-2274/0, 11-12=-2274/0, 12-14=-1445/0, 14-15=-169/275, 15-16=0/2080, 16-17=0/2080, 17-18=-189/984, 18-19=-918/334, 19-20=-918/334, 20-21=-918/334, 21-22=-779/13
BOT CHORD 40-41=-136/257, 39-40=-447/280, 38-39=-913/0, 37-38=-347/0, 36-37=0/1238, 35-36=0/2103, 34-35=0/2274, 33-34=0/2274, 31-33=0/1939, 30-31=0/956, 29-30=-915/0, 28-29=-1322/0, 27-28=-650/654, 26-27=-334/918, 25-26=-104/985, 24-25=0/535
WEBS 2-41=-363/193, 2-40=-450/34, 5-38=-886/0, 5-39=0/846, 4-39=-448/0, 7-38=-1512/0, 7-37=0/1122, 8-37=-1072/0, 8-36=0/666, 9-36=-646/0, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-780/0, 12-33=0/674, 11-33=-287/0, 17-29=-1285/0, 17-28=0/868, 18-28=-869/0, 18-27=0/694, 19-27=-333/0, 22-24=-757/0, 22-25=-68/363, 21-25=-307/135, 21-26=-445/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F38	Floor	4	1	I50123017
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:02 2022 Page 1
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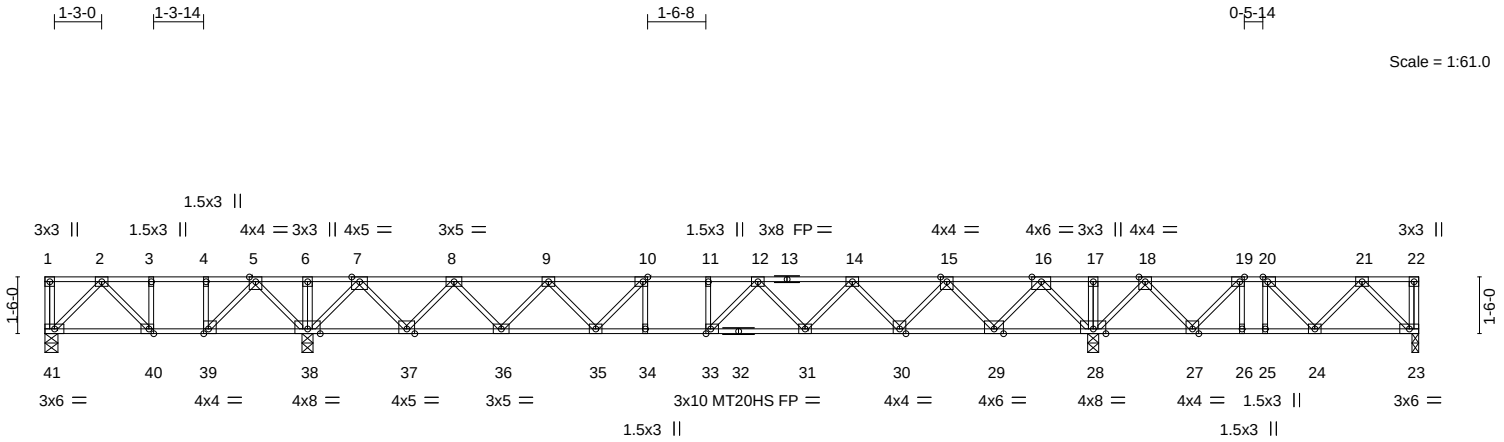

6-11-6	27-8-14	36-4-4
6-11-6	20-9-8	8-7-6

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>868	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 23=0-2-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-163(LC 6), 23=-234(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=308(LC 5), 23=352(LC 5), 38=2069(LC 3), 28=2460(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-206/614, 3-4=-206/614, 4-5=-206/614, 5-6=0/1737, 6-7=0/1737, 7-8=-488/0, 8-9=-1870/0, 9-10=-2654/0, 10-11=-2901/0, 11-12=-2901/0, 12-14=-2363/0, 14-15=-1291/0, 15-16=0/501, 16-17=0/2862, 17-18=0/2862, 18-19=0/1626, 19-20=-268/1036, 20-21=-317/580
BOT CHORD 39-40=-614/206, 38-39=-1187/0, 37-38=-543/0, 36-37=0/1318, 35-36=0/2404, 34-35=0/2901, 33-34=0/2901, 31-33=0/2740, 30-31=0/1966, 29-30=0/592, 28-29=-1510/0, 27-28=-2132/0, 26-27=-1036/268, 25-26=-1036/268, 24-25=-1036/268, 23-24=-240/307
WEBS 2-41=-324/280, 2-40=-602/0, 3-40=-10/317, 5-38=-968/0, 5-39=0/1001, 4-39=-551/0, 7-38=-1700/0, 7-37=0/1309, 8-37=-1261/0, 8-36=0/844, 9-36=-816/0, 9-35=0/451, 10-35=-505/0, 16-28=-1913/0, 16-29=0/1500, 15-29=-1476/0, 15-30=0/1060, 14-30=-1022/0, 14-31=0/607, 12-31=-582/0, 12-33=-39/510, 18-28=-1305/0, 18-27=0/953, 19-27=-1068/0, 19-26=0/460, 21-23=-434/340, 21-24=-505/15, 20-24=0/660, 20-25=-447/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 41 and 234 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F39	Floor	3	1	I50123018
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NueznxFLqg8wAt9DT9kbhwZ_Wd5K?Etg8aIlnkznF8Y

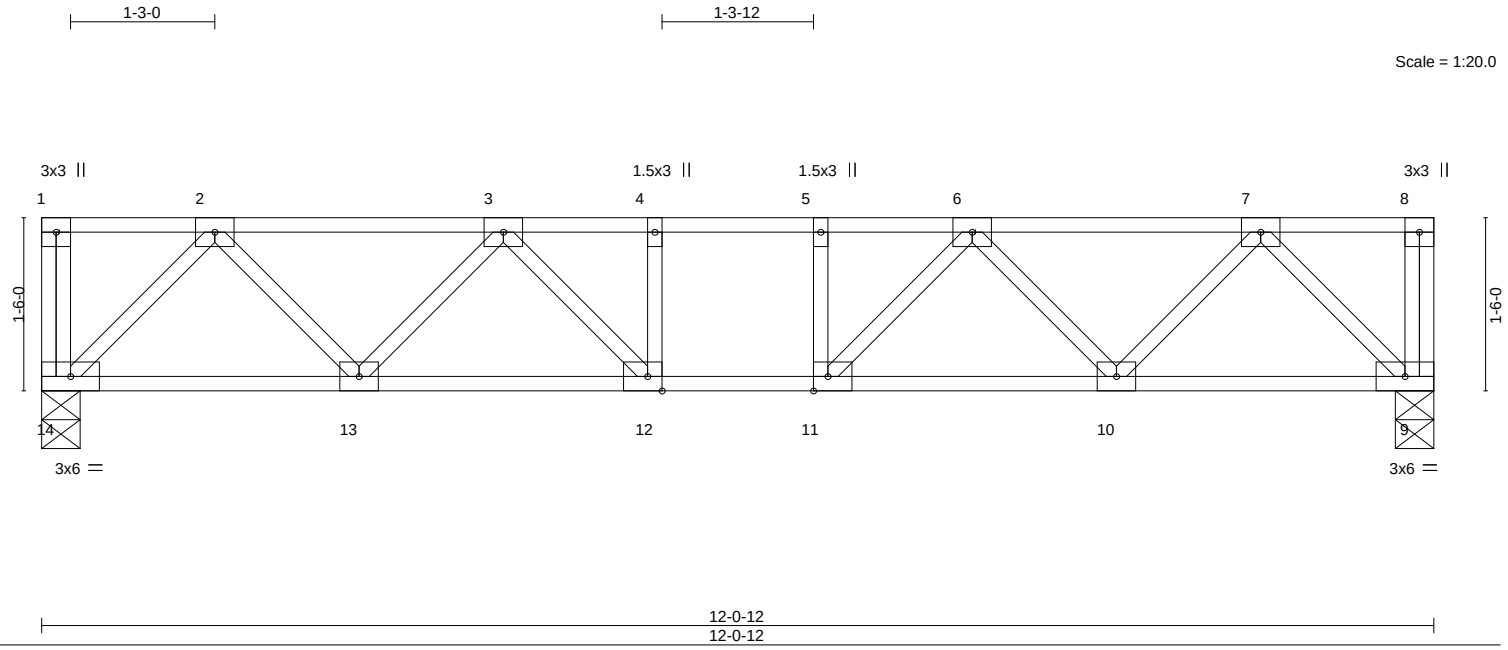

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F40	Floor	24	1	I50123019
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:07 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-FftUdJIsuueMfVS_i?oXsmkWmEMCxwCG2BjWwVznF8U

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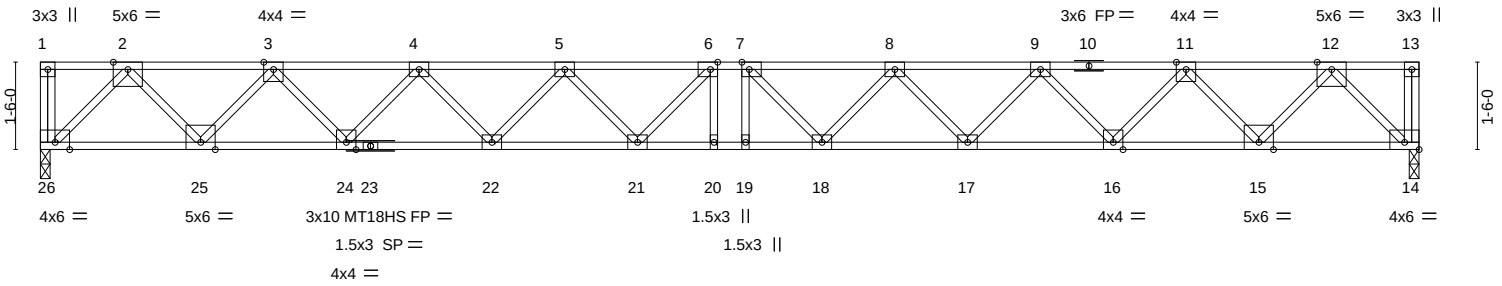

23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>613	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.75	20	>377	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-4400/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5659/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 24-25=0/3616, 22-24=0/5162, 21-22=0/6130, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2065/0, 2-25=0/1622, 3-25=-1583/0, 3-24=0/1166, 4-24=-1134/0, 4-22=0/737, 5-22=-703/0, 5-21=-33/458, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F41	Floor	1	1	I50123020
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-krRsqfIUeCmDHf1BFiJmOzGrKepxgVCQHrS3TxznF8T

1-3-0 1-1-12

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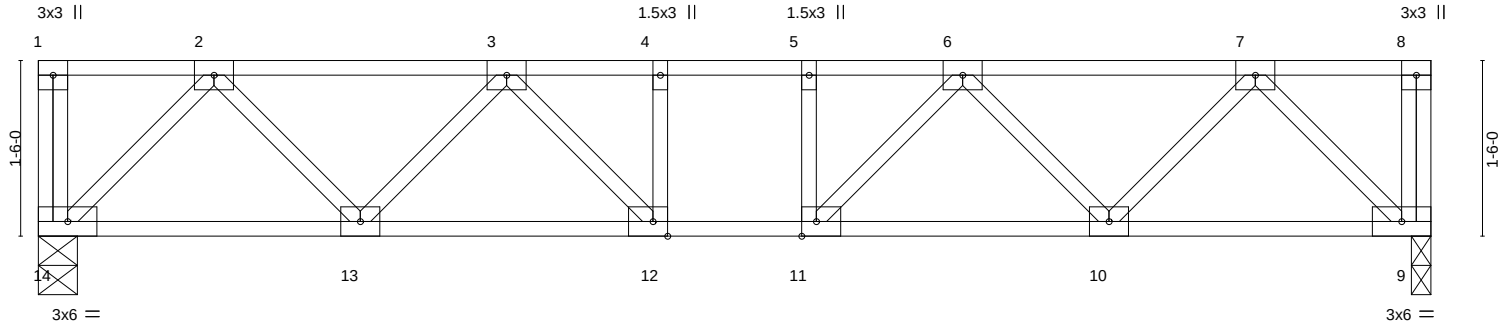

11-10-12
11-10-12

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F41G	FLOOR GIRDER	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101 — 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Feb 9 08:40:12 2022 Page 1

ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-PJpSVefCkhLwu7prEDjZk6F1YmxsliOi7vvdLFzmwQn

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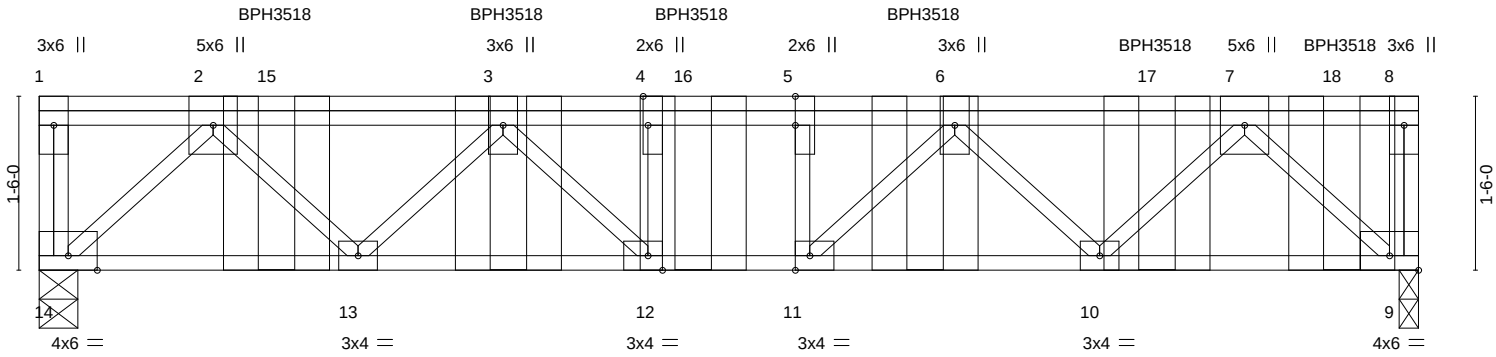

11-10-12

11-10-12

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	0.05	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-14,8-9: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Uplift 14=-349(LC 10), 9=-986(LC 9)
Max Grav 14=824(LC 13), 9=770(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-1219/851, 3-15=-1219/851, 3-4=-1715/1539, 4-16=-1715/1539, 5-16=-1715/1539, 5-6=-1715/1539, 6-17=-1162/1228, 7-17=-1162/1228
BOT CHORD 13-14=-386/811, 12-13=-1341/1599, 11-12=-1539/1715, 10-11=-1594/1553, 9-10=-890/743
WEBS 2-14=-1121/533, 2-13=-674/592, 3-13=-551/712, 3-12=-505/165, 4-12=-101/369, 7-9=-1027/1230, 7-10=-489/607, 6-10=-567/531, 6-11=-59/256

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 14 and 986 lb uplift at joint 9.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-9 from the left end to 11-2-13 to connect truss(es) to front face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-120

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Continued on page 2

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LOAD CASE(S) Standard Except:
Concentrated Loads (lb)
Vert: 3=95(F) 6=95(F) 15=-80(F) 16=95(F) 17=95(F) 18=67(F)
13) User defined: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-120
Concentrated Loads (lb)
Vert: 15=-80(F)

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Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F42	Floor	3	1	I50123022
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:18 2022 Page 1
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1-3-0 1-2-8 0-7-0

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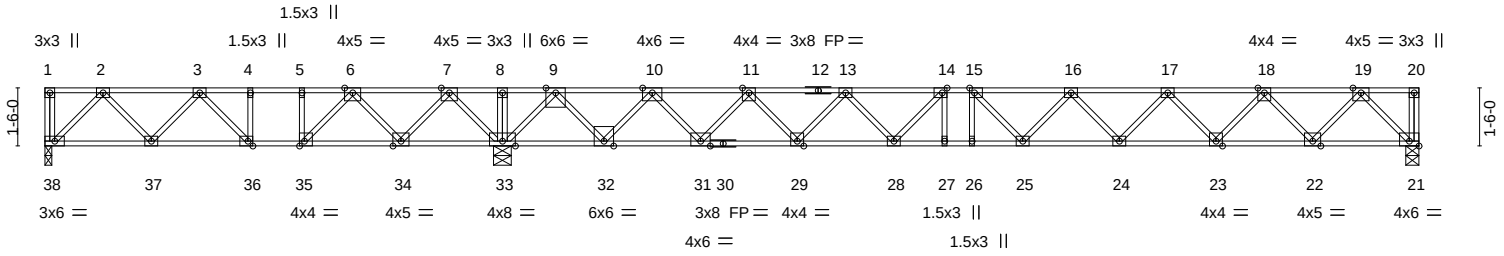

11-10-0 35-6-8
11-10-0 23-8-8

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>814	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.55	25-26	>511	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing.

REACTIONS. (size) 38=0-2-2, 21=0-4-1, 33=0-5-8
Max Uplift 38=-154(LC 4)
Max Grav 38=543(LC 3), 21=1311(LC 4), 33=3012(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-696/397, 3-4=-678/1278, 4-5=-678/1278, 5-6=-678/1278, 6-7=0/2544, 7-8=0/4049, 8-9=0/4049, 9-10=0/1061, 10-11=-1473/0, 11-13=-3151/0, 13-14=-4230/0, 14-15=-4687/0, 15-16=-4768/0, 16-17=-4492/0, 17-18=-3615/0, 18-19=-2149/0
BOT CHORD 37-38=-178/487, 36-37=-693/853, 35-36=-1278/678, 34-35=-1980/224, 33-34=-3077/0, 32-33=-2365/0, 31-32=-276/475, 29-31=0/2447, 28-29=0/3826, 27-28=0/4687, 26-27=0/4687, 25-26=0/4687, 24-25=0/4781, 23-24=0/4185, 22-23=0/3023, 21-22=0/1249
WEBS 2-38=-689/252, 2-37=-325/310, 3-37=-234/439, 3-36=-934/0, 4-36=0/466, 7-33=-1639/0, 7-34=0/1180, 6-34=-1235/0, 6-35=0/1302, 5-35=-694/0, 9-33=-2382/0, 9-32=0/1947, 10-32=-1924/0, 10-31=0/1505, 11-31=-1471/0, 11-29=0/1069, 13-29=-1026/0, 13-28=0/701, 14-28=-836/0, 14-27=-74/407, 19-21=-1767/0, 19-22=0/1337, 18-22=-1300/0, 18-23=0/880, 17-23=-847/0, 17-24=0/456, 16-24=-429/0, 15-25=-218/428, 15-26=-390/91

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F42G	FLOOR GIRDER	1	1	I50123023
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:20 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-N9AOLlS0quHWjVyUyEXbtVmnrTtlTpHB2jMiuFznF8H

1-3-0 1-2-8 0-7-0

Scale = 1:60.1

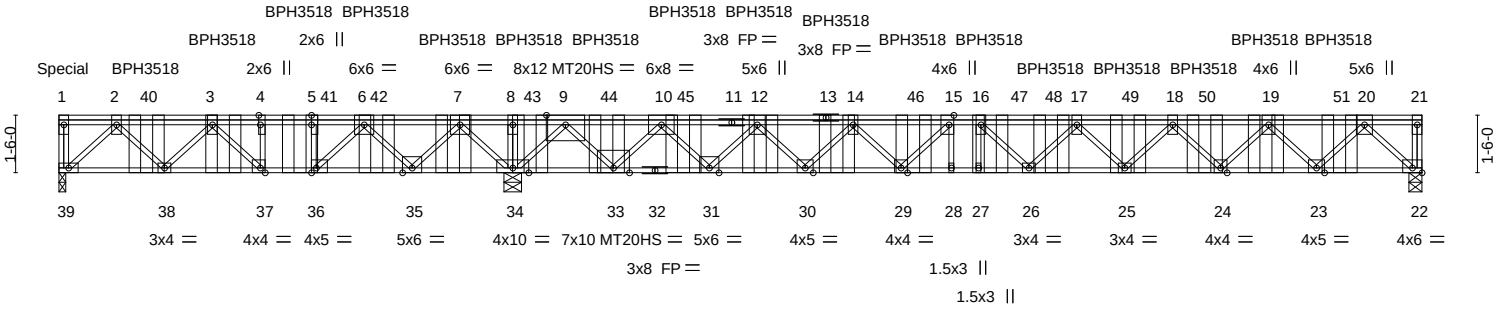

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,Edge], [15:0-3-0,Edge], [22:Edge,0-1-8], [36:0-1-8,Edge], [37:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.38	26-27	>743	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.48	27	>593	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.05	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 240 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-13,1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
22-32: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
4-37,5-36,15-28,16-27,8-34: 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 38-39,37-38,31-33.

REACTIONS. (size) 39=0-2-2, 34=0-5-8, 22=0-4-1
Max Uplift 22=-441(LC 17)
Max Grav 39=910(LC 17), 34=4058(LC 1), 22=1425(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1277/0, 3-4=-1798/771, 4-5=-1798/771, 5-6=-1798/771, 6-7=-1052/2839, 7-8=0/5388, 8-9=0/5388, 9-10=-109/1366, 10-12=-1803/0, 12-14=-3891/253, 14-15=-5066/993, 15-16=-5436/1621, 16-17=-5385/2057, 17-18=-4955/2339, 18-19=-3964/1971, 19-20=-2398/1052

BOT CHORD 38-39=0/825, 37-38=0/1698, 36-37=-771/1798, 35-36=-1847/1555, 34-35=-3827/527, 33-34=-3119/0, 31-33=0/871, 30-31=-27/3064, 29-30=-493/4694, 28-29=-1621/5436, 27-28=-1621/5436, 26-27=-1621/5436, 25-26=-2412/5309, 24-25=-2301/4578, 23-24=-1661/3328, 22-23=-470/1442

WEBS 2-39=-1141/0, 2-38=-79/655, 3-38=-611/155, 3-37=-1158/142, 4-37=-89/738, 7-34=-2274/0, 7-35=0/1641, 6-35=-1651/0, 6-36=0/1696, 5-36=-1081/0, 9-34=-3143/0, 9-33=0/2541, 10-33=-2517/0, 10-31=-95/1879, 12-31=-1843/133, 12-30=-327/1211, 14-30=-1178/349, 14-29=-801/603, 15-29=-606/1002, 15-28=-400/64, 20-22=-1993/650, 20-23=-843/1387, 19-23=-1348/884, 19-24=-449/923, 18-24=-890/479, 18-25=-55/546, 17-25=-513/105, 17-26=-22/767, 16-26=-908/80, 16-27=-55/415, 8-34=-279/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 39.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 22.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.
10) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-7 from the left end to 33-4-12 to connect truss(es) to back face of top chord.
11) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F42G	FLOOR GIRDER	1	1	I50123023
					Job Reference (optional)

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 22-39=-10, 1-21=-120
   Concentrated Loads (lb)
   Vert: 3=-120(B) 7=-120(B) 12=-120(B) 19=26(B) 1=-171(B) 13=-120(B) 40=-120(B) 41=-120(B) 42=-120(B) 43=-120(B) 44=-120(B) 45=-120(B) 46=-120(B) 47=26(B) 48=26(B) 49=26(B) 50=26(B) 51=-120(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F43	Floor	1	1	I50123024
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:22 2022 Page 1
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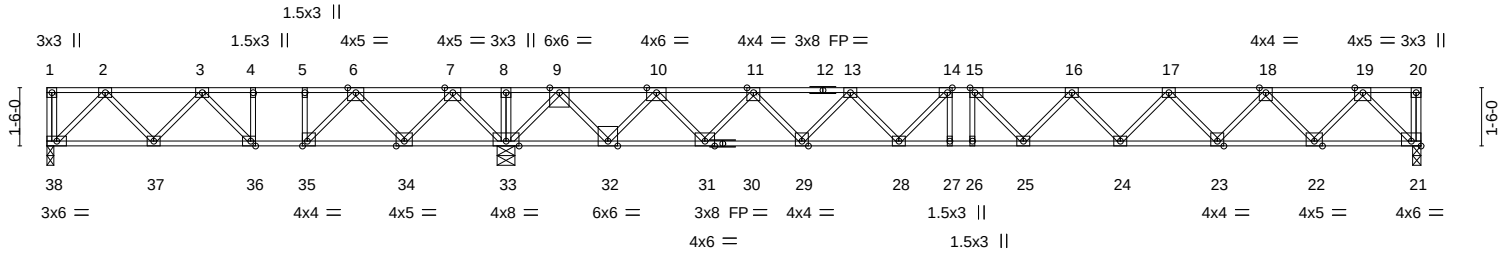
1-3-0 1-2-8 0-5-8

Scale = 1:59.4



11-10-0 35-5-0
11-10-0 23-7-0

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.34	25-26	>832	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.54	25-26	>523	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS. (size) 38=0-2-2, 21=0-2-9, 33=0-5-8
Max Uplift 38=-149(LC 4)
Max Grav 38=544(LC 3), 21=1304(LC 4), 33=2999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-698/388, 3-4=-685/1258, 4-5=-685/1258, 5-6=-685/1258, 6-7=0/2513, 7-8=0/4011, 8-9=0/4011, 9-10=0/1052, 10-11=-1478/0, 11-13=-3140/0, 13-14=-4203/0, 14-15=-4641/0, 15-16=-4717/0, 16-17=-4453/0, 17-18=-3590/0, 18-19=-2136/0
BOT CHORD 37-38=-174/489, 36-37=-679/857, 35-36=-1258/685, 34-35=-1953/233, 33-34=-3041/0, 32-33=-2336/0, 31-32=-274/489, 29-31=0/2444, 28-29=0/3808, 27-28=0/4641, 26-27=0/4641, 25-26=0/4641, 24-25=0/4734, 23-24=0/4153, 22-23=0/3004, 21-22=0/1242
WEBS 2-38=-691/246, 2-37=-319/312, 3-37=-236/432, 3-36=-924/0, 4-36=0/461, 7-33=-1633/0, 7-34=0/1175, 6-34=-1229/0, 6-35=0/1292, 5-35=-689/0, 9-33=-2370/0, 9-32=0/1934, 10-32=-1911/0, 10-31=0/1493, 11-31=-1458/0, 11-29=0/1057, 13-29=-1015/0, 13-28=0/689, 14-28=-801/0, 14-27=-85/400, 19-21=-1757/0, 19-22=0/1328, 18-22=-1290/0, 18-23=0/871, 17-23=-838/0, 17-24=0/446, 16-24=-418/0, 16-25=-258/203, 15-25=-210/414, 15-26=-384/100

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

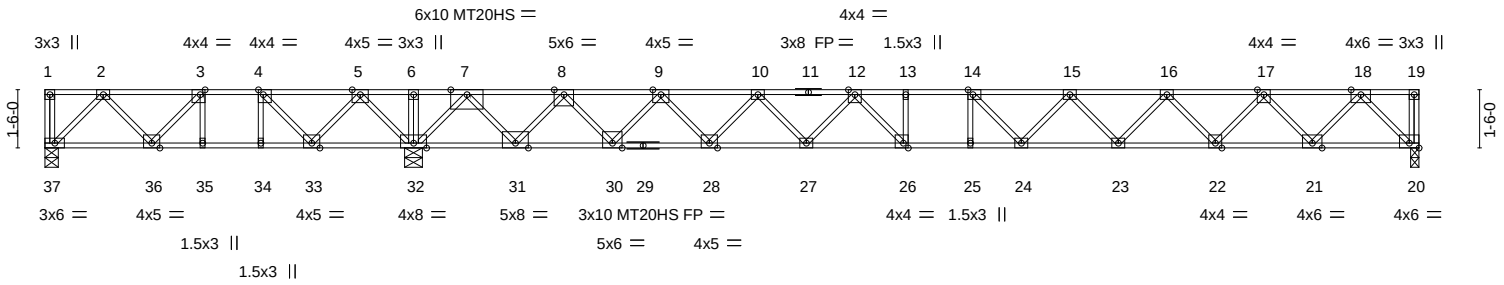
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F44	Floor	5	1	I50123025
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:23 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-nkrX_nUu6pf5ayg3dM4IV8OFAhqfgCrdkhbMVZznF8E

1-3-0 1-4-8 1-6-8

Scale = 1:59.4



9-6-0 35-5-0
9-6-0 25-11-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.44	25	>701	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.71	24-25	>436	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,3-35,4-34,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-4-2, 20=0-2-9, 32=0-5-8
Max Uplift 37=-377(LC 4)
Max Grav 37=350(LC 3), 20=1458(LC 7), 32=3143(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-306/862, 3-4=-161/1677, 4-5=0/2673, 5-6=0/4326, 6-7=0/4326, 7-8=0/1091, 8-9=-1700/0, 9-10=-3636/0, 10-12=-4957/0, 12-13=-5868/0, 13-14=-5868/0, 14-15=-5843/0, 15-16=-5305/0, 16-17=-4161/0, 17-18=-2429/0
BOT CHORD 36-37=-341/323, 35-36=-1677/161, 34-35=-1677/161, 33-34=-1677/161, 32-33=-3395/0, 31-32=-2525/0, 30-31=-15/576, 28-30=0/2801, 27-28=0/4442, 26-27=0/5483, 25-26=0/5868, 24-25=0/5868, 23-24=0/5733, 22-23=0/4862, 21-22=0/3437, 20-21=0/1395
WEBS 2-37=-456/482, 2-36=-775/0, 3-36=0/1180, 3-35=-667/0, 5-32=-1519/0, 5-33=0/1313, 4-33=-1702/0, 4-34=0/695, 7-32=-2548/0, 7-31=0/2132, 8-31=-2116/0, 8-30=0/1691, 9-30=-1657/0, 9-28=0/1264, 10-28=-1217/0, 10-27=0/785, 12-27=-805/0, 12-26=0/909, 13-26=-404/0, 18-20=-1973/0, 18-21=0/1536, 17-21=-1499/0, 17-22=0/1077, 16-22=-1042/0, 16-23=0/658, 15-23=-636/0, 15-24=-107/396, 14-24=-433/355, 14-25=-302/92

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 37.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F45	FLOOR	2	1	I50123026
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:25 2022 Page 1
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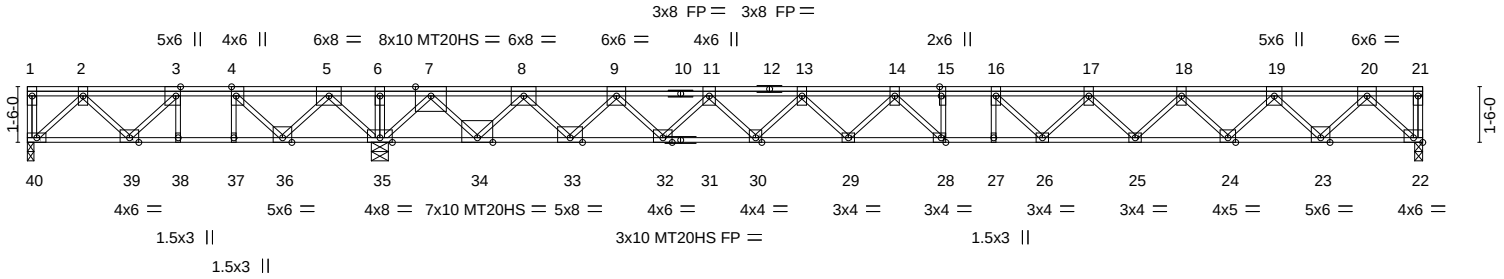
1-3-0 1-4-8 1-2-12

Scale = 1:62.1



9-6-0 37-7-4
9-6-0 28-1-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,Edge], [22:Edge,0-1-8], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.45	28	>754	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.72	28	>468	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
31-40: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,3-38,4-37,15-28,16-27,6-35: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.

REACTIONS. (size) 40=0-2-2, 35=0-5-8, 22=0-2-9
Max Uplift 40=-590(LC 4)
Max Grav 40=263(LC 3), 35=3557(LC 1), 22=1542(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-103/1419, 3-4=0/2505, 4-5=0/3779, 5-6=0/5931, 6-7=0/5931, 7-8=0/2217, 8-9=-963/0, 9-11=-3355/0, 11-13=-5141/0, 13-14=-6295/0, 14-15=-6924/0, 15-16=-6924/0, 16-17=-6744/0, 17-18=-6022/0, 18-19=-4668/0, 19-20=-2699/0
BOT CHORD 39-40=-518/267, 38-39=-2505/0, 37-38=-2505/0, 36-37=-2505/0, 35-36=-4892/0, 34-35=-3899/0, 33-34=-729/0, 32-33=0/2298, 30-32=0/4388, 29-30=0/5869, 28-29=0/6701, 27-28=0/6924, 26-27=0/6924, 25-26=0/6539, 24-25=0/5482, 23-24=0/3832, 22-23=0/1540
WEBS 2-40=-370/716, 2-39=-1307/0, 3-39=0/1535, 3-38=-288/0, 5-35=-1707/0, 5-36=0/1872, 4-36=-2071/0, 4-37=0/315, 7-35=-2810/0, 7-34=0/2438, 8-34=-2416/0, 8-33=0/1985, 9-33=-1948/0, 9-32=0/1543, 11-32=-1510/0, 11-30=0/1102, 13-30=-1067/0, 13-29=0/641, 14-29=-631/0, 14-28=-211/782, 15-28=-463/128, 20-22=-2129/0, 20-23=0/1681, 19-23=-1642/0, 19-24=0/1213, 18-24=-1180/0, 18-25=0/782, 17-25=-751/0, 17-26=-89/555, 16-26=-569/183, 6-35=-391/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 40.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F46	Floor	4	1	I50123027
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-k7zHPTW8eQvopGqSln7maZUj3Ubg8CcwB?4TZSznF8C

1-3-0 1-10-8

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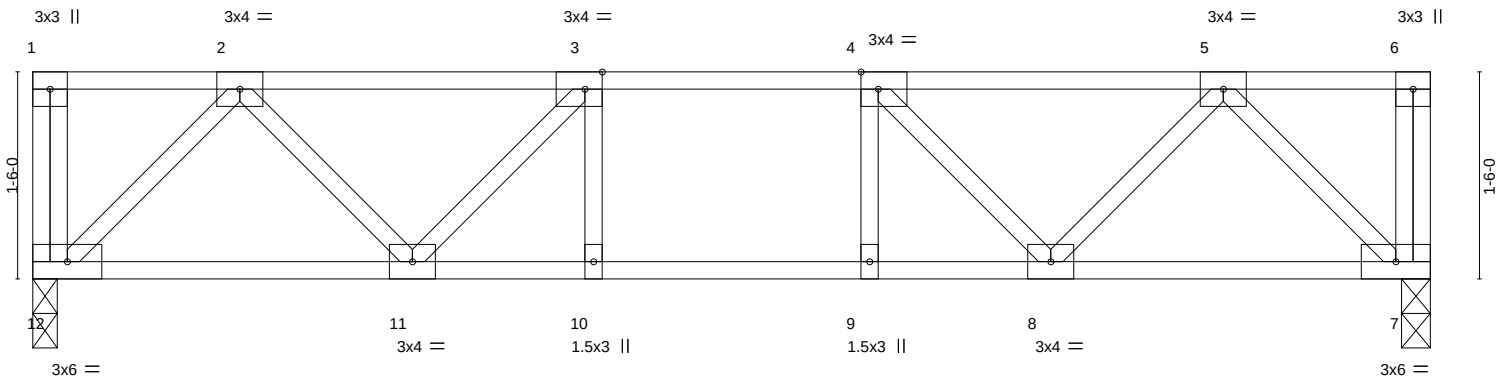

10-1-8
10-1-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-2, 7=0-2-8
Max Grav 12=642(LC 1), 7=642(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/0, 3-4=-1142/0, 4-5=-869/0
BOT CHORD 11-12=0/587, 10-11=0/1142, 9-10=0/1142, 8-9=0/1142, 7-8=0/587
WEBS 2-12=-831/0, 2-11=0/419, 3-11=-427/0, 5-7=-831/0, 5-8=0/419, 4-8=-427/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

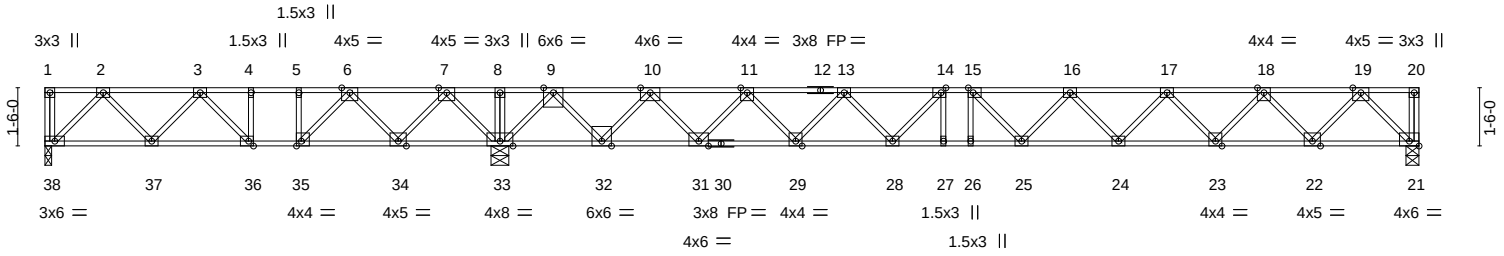
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F47	Floor	3	1	I50123028
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:27 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gV52p8XPA19W3a_qsC9Ef_ZwnIDtcwiDfIZaeLznF8A

1-3-0 1-1-5 0-6-15

Scale = 1:59.4



11-8-13 35-5-4
11-8-13 23-8-7

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.34	25-26	>822	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.55	25-26	>516	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-1, 21=0-4-0, 33=0-5-8
Max Uplift 38=-169(LC 4)
Max Grav 38=532(LC 3), 21=1307(LC 4), 33=3022(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-673/426, 3-4=-640/1323, 4-5=-640/1323, 5-6=-640/1323, 6-7=0/2595, 7-8=0/4118, 8-9=0/4118, 9-10=0/1118, 10-11=-1416/0, 11-13=-3102/0, 13-14=-4188/0, 14-15=-4649/0, 15-16=-4735/0, 16-17=-4467/0, 17-18=-3599/0, 18-19=-2140/0
BOT CHORD 37-38=-193/476, 36-37=-734/821, 35-36=-1323/640, 34-35=-2023/195, 33-34=-3138/0, 32-33=-2431/0, 31-32=-314/416, 29-31=0/2394, 28-29=0/3780, 27-28=0/4649, 26-27=0/4649, 25-26=0/4649, 24-25=0/4752, 23-24=0/4164, 22-23=0/3011, 21-22=0/1245
WEBS 2-38=-673/273, 2-37=-347/294, 3-37=-220/457, 3-36=-946/0, 4-36=0/473, 7-33=-1647/0, 7-34=0/1191, 6-34=-1241/0, 6-35=0/1291, 5-35=-686/0, 9-33=-2387/0, 9-32=0/1951, 10-32=-1929/0, 10-31=0/1510, 11-31=-1476/0, 11-29=0/1074, 13-29=-1030/0, 13-28=0/705, 14-28=-840/0, 14-27=-72/409, 19-21=-1761/0, 19-22=0/1331, 18-22=-1294/0, 18-23=0/874, 17-23=-841/0, 17-24=0/450, 16-24=-423/0, 16-25=-254/205, 15-25=-212/432, 15-26=-392/88

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F47G	FLOOR GIRDER	1	1	I50123029
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:29 2022 Page 1
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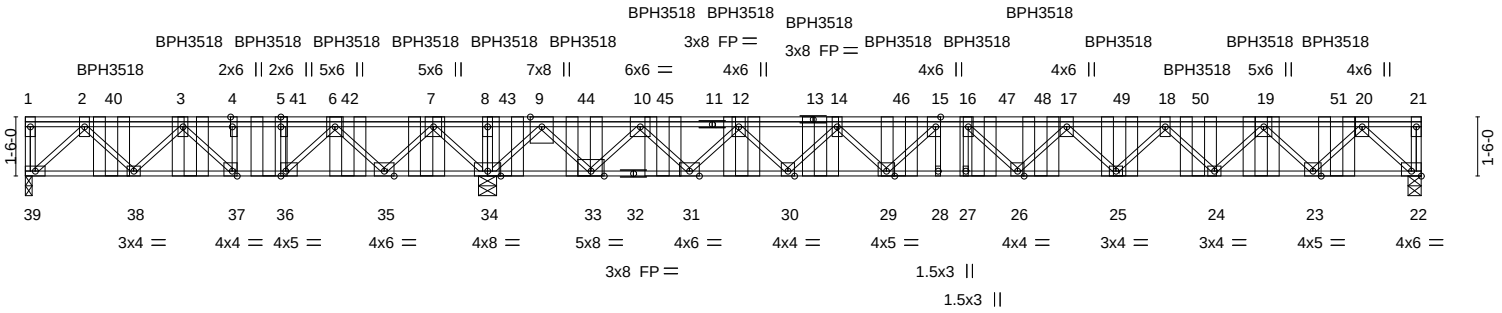

11-8-13 35-5-4
11-8-13 23-8-7

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [15:0-3-0,Edge], [22:Edge,0-1-8], [36:0-1-8,Edge], [37:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.36	26-27	>785	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.40	28	>704	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.05	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 240 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 13-21,11-21: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 22-32: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except* 4-37,5-36,15-28,16-27,8-34: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 38-39,37-38,31-33.

REACTIONS. (size) 39=0-2-1, 34=0-5-8, 22=0-4-0
Max Uplift 22=-771(LC 17)
Max Grav 39=899(LC 17), 34=3474(LC 1), 22=1114(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1396/0, 3-4=-2127/639, 4-5=-2127/639, 5-6=-2127/639, 6-7=-1683/2376, 7-8=-546/4565, 8-9=-546/4565, 9-10=-402/1183, 10-12=-1453/45, 12-14=-3128/793, 14-15=-3987/1955, 15-16=-4194/2817, 16-17=-4088/3373, 17-18=-3694/3701, 18-19=-2941/3096, 19-20=-1802/1698
BOT CHORD 38-39=0/884, 37-38=0/1883, 36-37=-639/2127, 35-36=-1531/2058, 34-35=-3218/1282, 33-34=-2649/520, 31-33=0/920, 30-31=-369/2476, 29-30=-1233/3758, 28-29=-2817/4194, 27-28=-2817/4194, 26-27=-2817/4194, 25-26=-3838/3971, 24-25=-3600/3393, 23-24=-2612/2466, 22-23=-813/1111
WEBS 2-39=-1223/0, 2-38=-73/742, 3-38=-705/145, 3-37=-963/346, 4-37=-218/603, 7-34=-1985/0, 7-35=0/1427, 6-35=-1431/0, 6-36=0/1427, 5-36=-896/0, 9-34=-2655/35, 9-33=-177/2126, 10-33=-2100/210, 10-31=-432/1533, 12-31=-1496/470, 12-30=-615/958, 14-30=-926/637, 14-29=-1124/394, 15-29=-370/1325, 15-28=-386/8, 20-22=-1536/1124, 20-23=-1283/1002, 19-23=-963/1324, 19-24=-702/688, 18-24=-656/731, 18-25=-146/437, 17-25=-401/198, 17-26=0/926, 16-26=-1067/0, 16-27=0/403

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 39.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 771 lb uplift at joint 22.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-4 from the left end to 33-3-8 to connect truss(es) to back face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F47G	FLOOR GIRDER	1	1	I50123029
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 22-39=-10, 1-21=-120
   Concentrated Loads (lb)
   Vert: 3=-77(B) 7=-77(B) 12=-77(B) 19=101(B) 13=-77(B) 40=-77(B) 41=-77(B) 42=-77(B) 43=-77(B) 44=-77(B) 45=-77(B) 46=-77(B) 47=101(B) 48=101(B) 49=101(B) 50=101(B) 51=-77(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F48	Floor	1	1	I50123030
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:31 2022 Page 1
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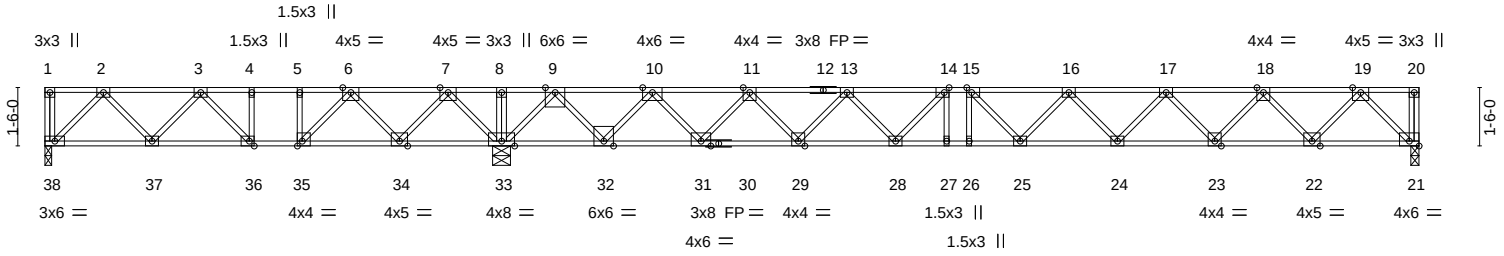

11-8-13 35-3-12
11-8-13 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.33	25-26	>840	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.53	25-26	>528	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 38=0-2-1, 21=0-2-8, 33=0-5-8
Max Uplift 38=-164(LC 4)
Max Grav 38=533(LC 3), 21=1300(LC 4), 33=3008(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-676/417, 3-4=-646/1303, 4-5=-646/1303, 5-6=-646/1303, 6-7=0/2563, 7-8=0/4079, 8-9=0/4079, 9-10=0/1096, 10-11=-1423/0, 11-13=-3091/0, 13-14=-4161/0, 14-15=-4603/0, 15-16=-4684/0, 16-17=-4429/0, 17-18=-3573/0, 18-19=-2127/0
BOT CHORD 37-38=-188/477, 36-37=-720/826, 35-36=-1303/646, 34-35=-1995/203, 33-34=-3102/0, 32-33=-2401/0, 31-32=-312/430, 29-31=0/2392, 28-29=0/3762, 27-28=0/4603, 26-27=0/4603, 25-26=0/4603, 24-25=0/4705, 23-24=0/4132, 22-23=0/2991, 21-22=0/1238
WEBS 2-38=-675/266, 2-37=-340/296, 3-37=-222/450, 3-36=-936/0, 4-36=0/468, 7-33=-1641/0, 7-34=0/1185, 6-34=-1234/0, 6-35=0/1282, 5-35=-681/0, 9-33=-2374/0, 9-32=0/1939, 10-32=-1916/0, 10-31=0/1498, 11-31=-1463/0, 11-29=0/1062, 13-29=-1020/0, 13-28=0/693, 14-28=-805/0, 14-27=-83/402, 19-21=-1751/0, 19-22=0/1322, 18-22=-1284/0, 18-23=0/865, 17-23=-832/0, 17-24=0/440, 16-24=-412/0, 16-25=-262/199, 15-25=-204/418, 15-26=-386/98

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 38.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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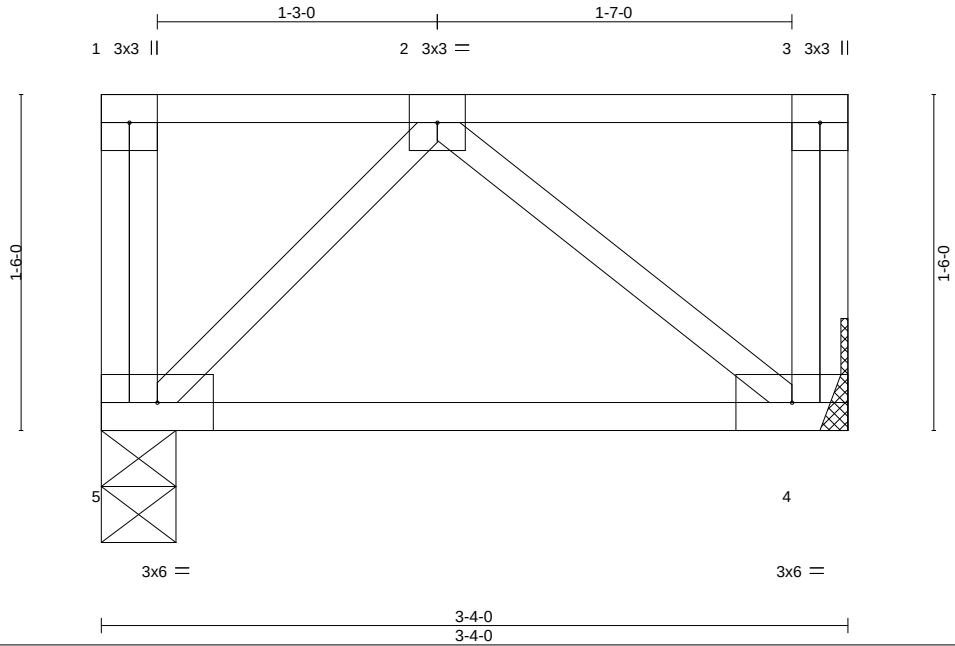
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F49	Floor	1	1	I50123031
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:31 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-YGKYfWavEGfyXBIc52EAqqjoVvlhYyYoawXnn6znF86



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 2-4: 2x4 SP No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=200(LC 1), 4=200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F50	Floor	5	1	I50123032
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:34 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zr0hHYdoXB2XOe0AnAntSSL7V6bMlAbFGumRNRznF83

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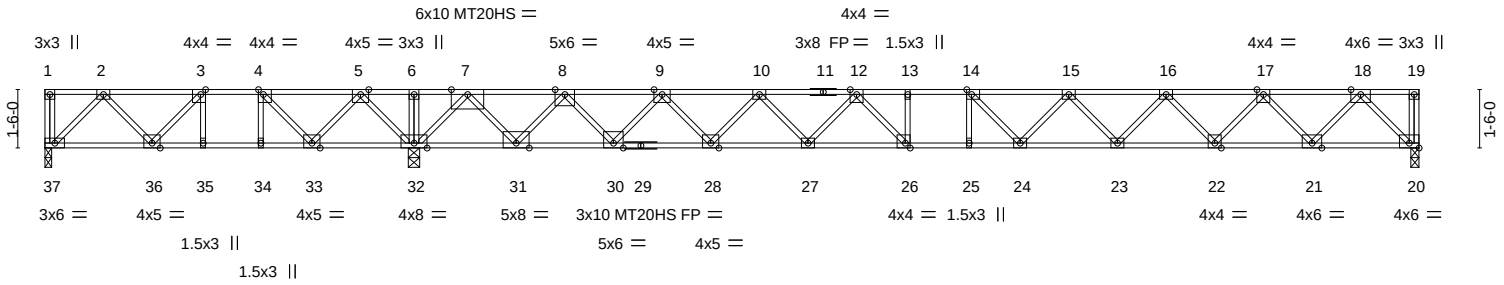

9-5-13 35-3-12
9-5-13 25-9-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.43	24-25	>713	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.70	24-25	>443	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 189 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,3-35,4-34,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-2-1, 20=0-2-8, 32=0-3-8
Max Uplift 37=-378(LC 4)
Max Grav 37=348(LC 3), 20=1452(LC 7), 32=3138(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-303/864, 3-4=-157/1677, 4-5=0/2671, 5-6=0/4324, 6-7=0/4324, 7-8=0/1097, 8-9=-1683/0, 9-10=-3609/0, 10-12=-4922/0, 12-13=-5817/0, 13-14=-5817/0, 14-15=-5796/0, 15-16=-5269/0, 16-17=-4137/0, 17-18=-2416/0
BOT CHORD 36-37=-342/321, 35-36=-1677/157, 34-35=-1677/157, 33-34=-1677/157, 32-33=-3392/0, 31-32=-2527/0, 30-31=-36/563, 28-30=0/2778, 27-28=0/4410, 26-27=0/5443, 25-26=0/5817, 24-25=0/5817, 23-24=0/5691, 22-23=0/4833, 21-22=0/3419, 20-21=0/1389
WEBS 2-37=-454/484, 2-36=-775/0, 3-36=0/1177, 3-35=-666/0, 5-32=-1520/0, 5-33=0/1312, 4-33=-1697/0, 4-34=0/693, 7-32=-2541/0, 7-31=0/2125, 8-31=-2109/0, 8-30=0/1684, 9-30=-1650/0, 9-28=0/1256, 10-28=-1211/0, 10-27=0/779, 12-27=-797/0, 12-26=0/889, 13-26=-391/0, 18-20=-1964/0, 18-21=0/1527, 17-21=-1490/0, 17-22=0/1068, 16-22=-1034/0, 16-23=0/649, 15-23=-627/0, 15-24=-115/388, 14-24=-422/355, 14-25=-299/90

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 37, 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 37.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F51	FLOOR	2	1	I50123033
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:35 2022 Page 1
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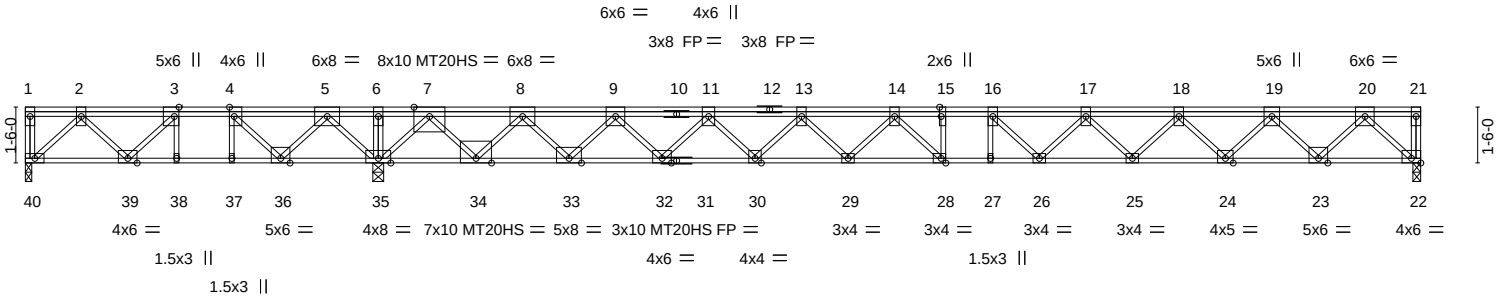

9-5-13 37-6-0
9-5-13 28-0-3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [15:0-3-0,Edge], [22:Edge,0-1-8], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.44	28	>761	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.71	28	>473	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 252 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
22-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-40,21-22,6-35,3-38,4-37,15-28,16-27: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.

REACTIONS. (size) 40=0-2-1, 35=0-3-8, 22=0-2-8
Max Uplift 40=-588(LC 4)
Max Grav 40=262(LC 3), 35=3547(LC 1), 22=1537(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-104/1413, 3-4=0/2491, 4-5=0/3757, 5-6=0/5902, 6-7=0/5902, 7-8=0/2200, 8-9=-968/0, 9-11=-3348/0, 11-13=-5122/0, 13-14=-6265/0, 14-15=-6879/0, 15-16=-6879/0, 16-17=-6704/0, 17-18=-5991/0, 18-19=-4648/0, 19-20=-2689/0
BOT CHORD 39-40=-517/267, 38-39=-2491/0, 37-38=-2491/0, 36-37=-2491/0, 35-36=-4865/0, 34-35=-3875/0, 33-34=-724/0, 32-33=0/2297, 30-32=0/4376, 29-30=0/5844, 28-29=0/6664, 27-28=0/6879, 26-27=0/6879, 25-26=0/6504, 24-25=0/5457, 23-24=0/3816, 22-23=0/1535
WEBS 6-35=-388/0, 2-40=-369/715, 2-39=-1300/0, 3-39=0/1525, 3-38=-286/0, 5-35=-1705/0, 5-36=0/1863, 4-36=-2059/0, 4-37=0/313, 7-35=-2802/0, 7-34=0/2430, 8-34=-2407/0, 8-33=0/1977, 9-33=-1939/0, 9-32=0/1535, 11-32=-1502/0, 11-30=0/1093, 13-30=-1059/0, 13-29=0/636, 14-29=-624/0, 14-28=-213/761, 15-28=-448/130, 20-22=-2122/0, 20-23=0/1674, 19-23=-1635/0, 19-24=0/1206, 18-24=-1172/0, 18-25=0/775, 17-25=-743/0, 17-26=-93/544, 16-26=-556/184

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 40, 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 40.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F52	Floor	5	1	I50123034
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vE8RiDe22oIFeyAZubpLXtRauwHpD7MXjCFYSJznF81

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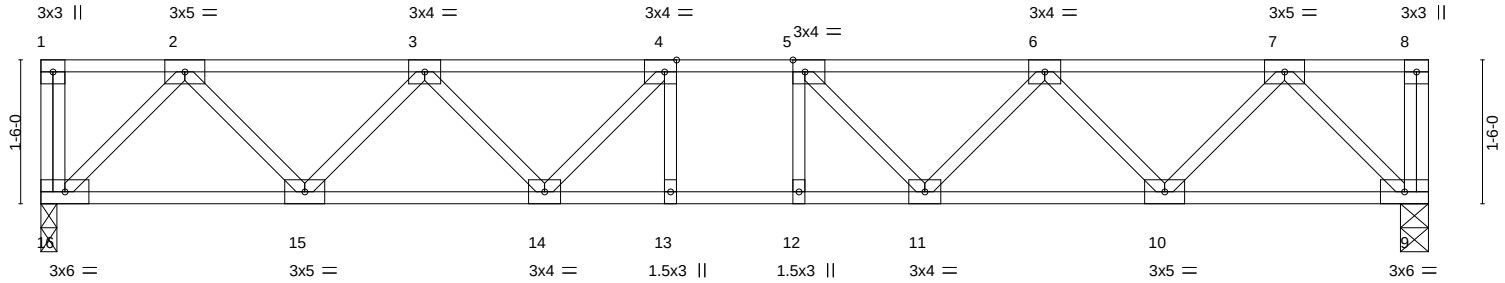
Scale: 1/2"=1'



14-5-9
14-5-9

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=924(LC 1), 9=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/0, 3-4=-2169/0, 4-5=-2390/0, 5-6=-2169/0, 6-7=-1414/0
BOT CHORD 15-16=0/862, 14-15=0/1940, 13-14=0/2390, 12-13=0/2390, 11-12=0/2390, 10-11=0/1940, 9-10=0/862
WEBS 2-16=-1219/0, 2-15=0/821, 3-15=-782/0, 3-14=0/389, 4-14=-448/0, 7-9=-1219/0, 7-10=0/821, 6-10=-782/0, 6-11=0/389, 5-11=-448/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F53	Floor	2	1	I50123035
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:37 2022 Page 1
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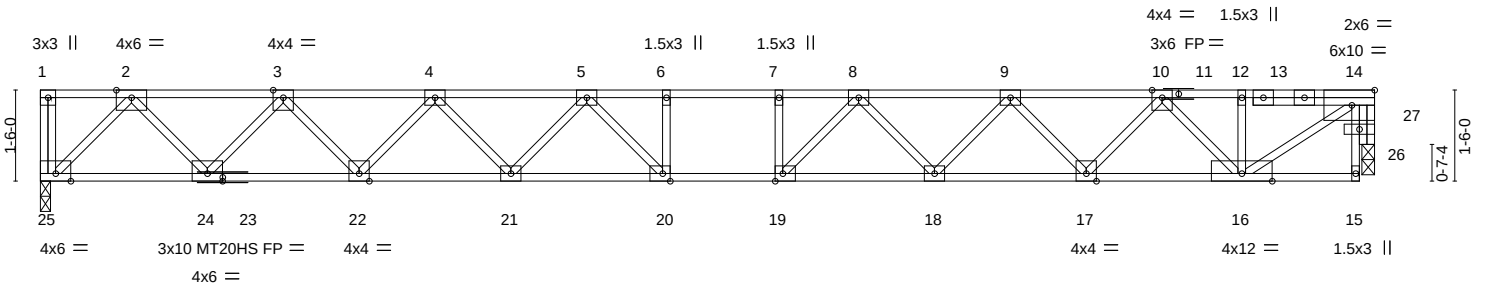

21-11-12
21-11-12

Plate Offsets (X,Y)-- [14:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.35	20	>753	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.56	20	>463	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 15-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 14-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-2-0, 27=0-2-8
Max Grav 25=1411(LC 1), 27=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2339/0, 3-4=-3987/0, 4-5=-5041/0, 5-6=-5529/0, 6-7=-5529/0, 7-8=-5529/0, 8-9=-4863/0, 9-10=-3690/0, 10-12=-1901/0, 12-14=-1905/0
BOT CHORD	24-25=0/1349, 22-24=0/3302, 21-22=0/4653, 20-21=0/5397, 19-20=0/5529, 18-19=0/5288, 17-18=0/4423, 16-17=0/2931
WEBS	2-25=-1908/0, 2-24=0/1472, 3-24=-1432/0, 3-22=0/1018, 4-22=-991/0, 4-21=0/577, 5-21=-558/0, 5-20=-203/590, 6-20=-300/30, 14-16=0/2132, 10-16=-1491/0, 10-17=0/1128, 9-17=-1091/0, 9-18=0/654, 8-18=-634/0, 8-19=-89/702, 7-19=-349/0, 14-27=-1424/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25, 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

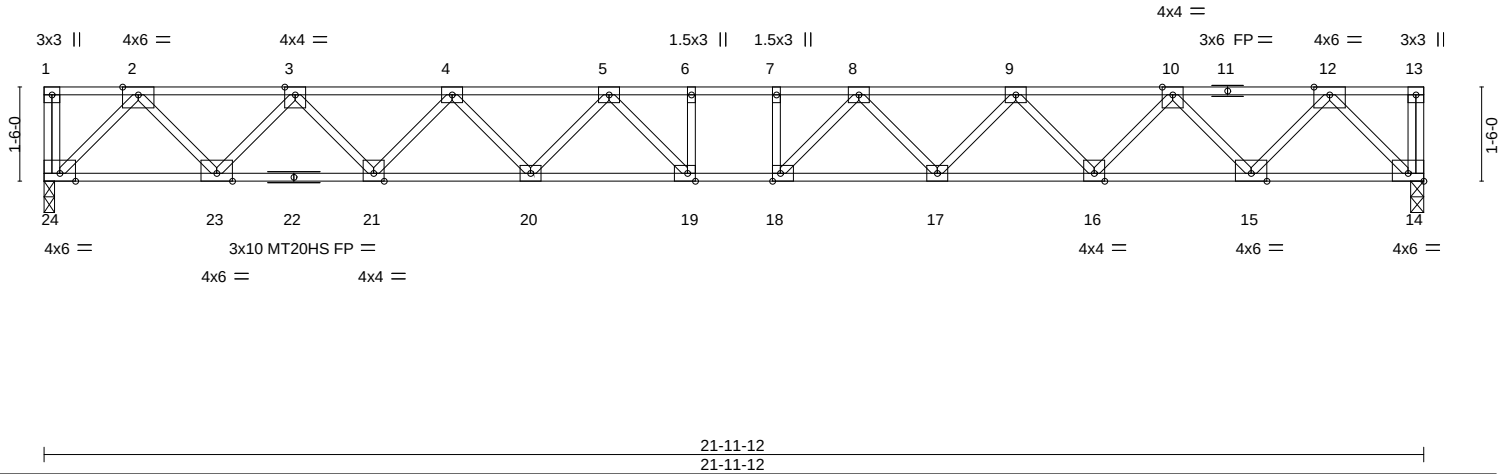
Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F54	Floor	5	1	I50123036
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:38 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-rdFC7vgIaQYytGKy00spcIWqmkxthz_qBWkfXCznF8?

1-3-0 1-2-12

Scale = 1:36.7



21-11-12
21-11-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.37	18-19	>710	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.60	18-19	>437	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 24=0-2-0, 14=0-2-8
Max Grav 24=1412(LC 1), 14=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2342/0, 3-4=-3993/0, 4-5=-5046/0, 5-6=-5552/0, 6-7=-5552/0, 7-8=-5552/0, 8-9=-5046/0, 9-10=-3993/0, 10-12=-2341/0
BOT CHORD 23-24=0/1351, 21-23=0/3306, 20-21=0/4659, 19-20=0/5409, 18-19=0/5552, 17-18=0/5409, 16-17=0/4659, 15-16=0/3306, 14-15=0/1351
WEBS 2-24=-1911/0, 2-23=0/1473, 3-23=-1433/0, 3-21=0/1020, 4-21=-991/0, 4-20=0/576, 5-20=-560/0, 5-19=-181/557, 6-19=-262/26, 12-14=-1910/0, 12-15=0/1472, 10-15=-1434/0, 10-16=0/1021, 9-16=-990/0, 9-17=0/575, 8-17=-560/0, 8-18=-181/557, 7-18=-262/26

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F55	Floor	5	1	I50123037
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:39 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-JppaLFgwLjgpVQv8ZjN29W36c7NcQWW_PATC3eznF8_

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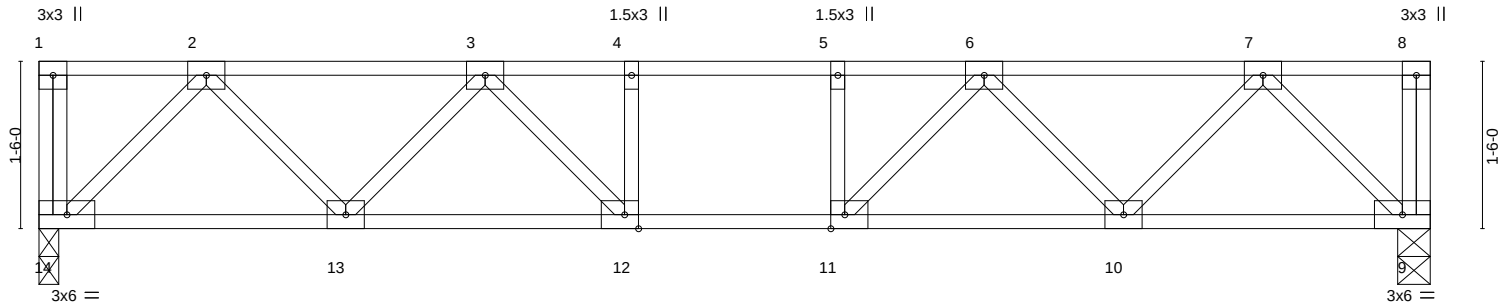

12-5-11
12-5-11

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-2, 9=0-3-8
Max Grav 14=795(LC 1), 9=795(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/0, 3-4=-1740/0, 4-5=-1740/0, 5-6=-1740/0, 6-7=-1162/0
BOT CHORD 13-14=0/739, 12-13=0/1558, 11-12=0/1740, 10-11=0/1558, 9-10=0/739
WEBS 2-14=-1045/0, 2-13=0/629, 3-13=-589/0, 3-12=0/431, 7-9=-1045/0, 7-10=0/629, 6-10=-589/0, 6-11=0/431

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F56	Floor	2	1	I50123038
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:40 2022 Page 1
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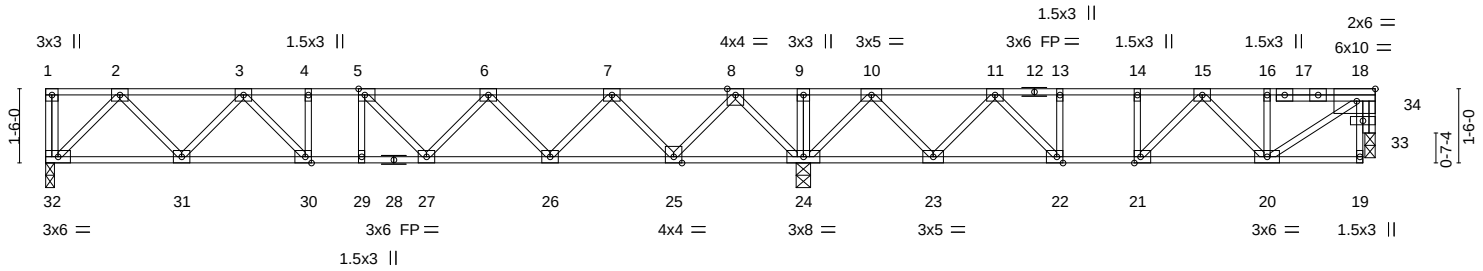

15-3-15 / 15-3-15 | 26-10-12 / 11-6-13

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.10	27-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.16	27-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-2-2, 24=0-3-8, 34=0-2-8
Max Grav 32=857(LC 3), 24=2102(LC 1), 34=602(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1273/0, 3-4=-2018/0, 4-5=-2018/0, 5-6=-1975/0, 6-7=-1461/0, 7-8=-335/224, 8-9=0/1796, 9-10=0/1796, 10-11=-294/715, 11-13=-1050/104, 13-14=-1050/104, 14-15=-1050/104, 15-16=-747/0, 16-18=-750/0
BOT CHORD 31-32=0/799, 30-31=0/1740, 29-30=0/2018, 27-29=0/2018, 26-27=0/1869, 25-26=0/1034, 24-25=-720/0, 23-24=-1011/0, 22-23=-413/762, 21-22=-104/1050, 20-21=0/994
WEBS 2-32=-1130/0, 2-31=0/705, 3-31=-694/0, 3-30=0/466, 8-24=-1522/0, 8-25=0/1114, 7-25=-1085/0, 7-26=0/679, 6-26=-649/0, 6-27=0/299, 5-27=-301/37, 10-24=-1244/0, 10-23=0/819, 11-23=-836/0, 11-22=0/708, 13-22=-360/0, 18-20=0/819, 15-20=-358/50, 15-21=-253/81, 18-34=-620/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32, 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F57	Floor	5	1	I50123039
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:41 2022 Page 1
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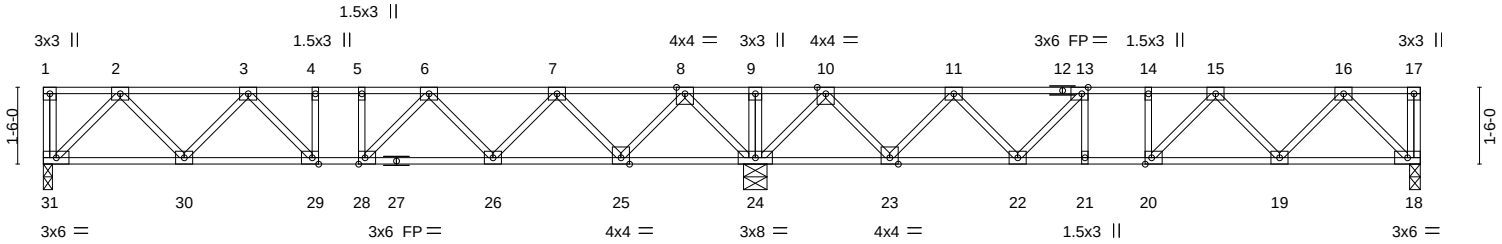

13-10-14 26-10-12
13-10-14 12-11-14

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [20:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.06	26-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.09	26-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-2, 18=0-2-8, 24=0-5-8
Max Grav 31=762(LC 3), 18=701(LC 4), 24=2121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1234/0, 7-8=-278/495, 8-9=0/1857, 9-10=0/1857, 10-11=-241/580, 11-13=-1088/86, 13-14=-1363/0, 14-15=-1363/0, 15-16=-986/0
BOT CHORD 30-31=0/706, 29-30=0/1470, 28-29=0/1615, 26-28=0/1540, 25-26=-195/900, 24-25=-857/0, 23-24=-942/0, 22-23=-292/810, 21-22=0/1363, 20-21=0/1363, 19-20=0/1298, 18-19=0/645
WEBS 2-31=-998/0, 2-30=0/586, 3-30=-550/0, 8-24=-1419/0, 8-25=0/1028, 7-25=-999/0, 7-26=0/565, 6-26=-532/0, 6-28=0/401, 10-24=-1356/0, 10-23=0/963, 11-23=-929/0, 11-22=0/511, 13-22=-584/0, 16-18=-912/0, 16-19=0/507, 15-19=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F58	Floor	5	1	I50123040
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:42 2022 Page 1
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1-3-0 1-9-12

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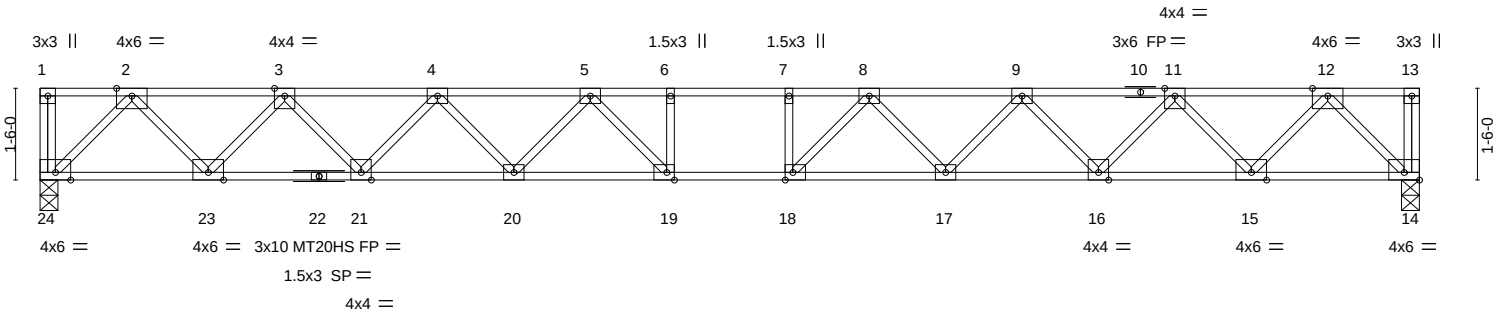

22-6-12
22-6-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>703	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4134/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 21-23=0/3412, 20-21=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1484/0, 3-21=0/1073, 4-21=-1042/0, 4-20=0/624, 5-20=-612/0, 5-19=-154/674, 6-19=-339/6, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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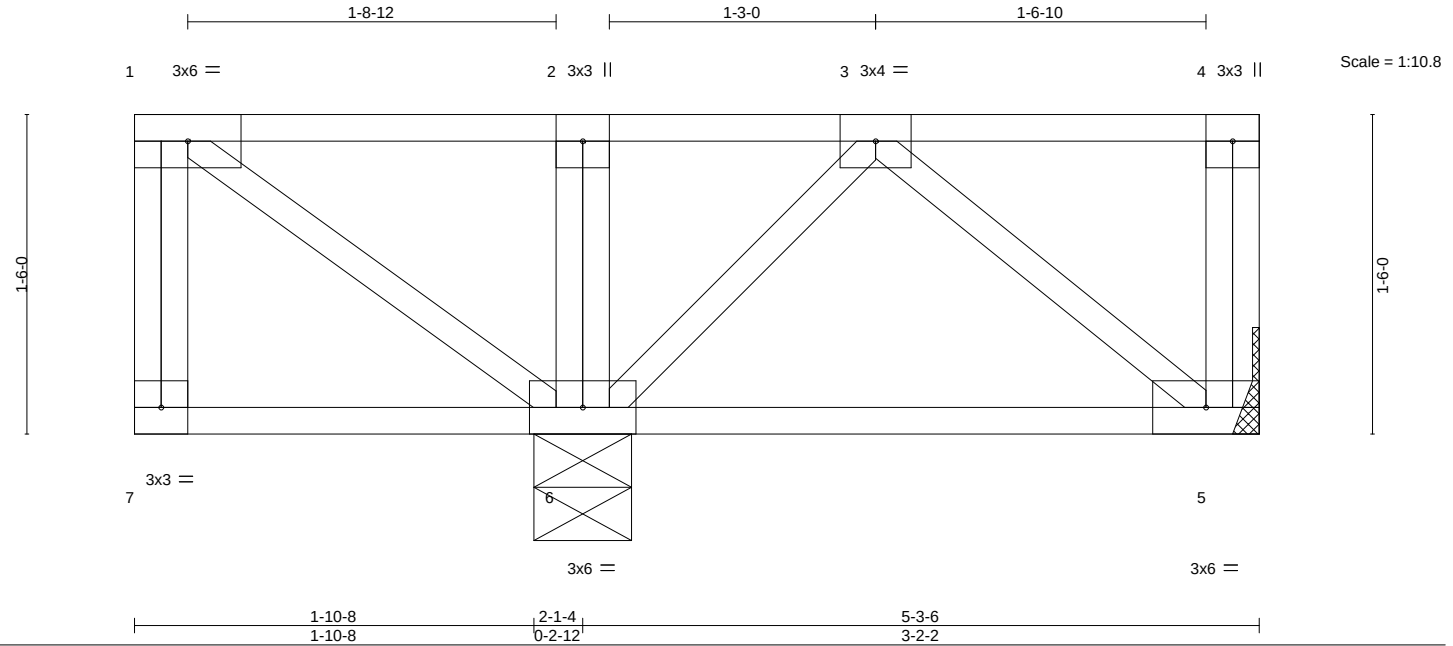
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F59	Floor	5	1	I50123041
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Ca35AckRPyAF_1CvoZR_JMDk7lrwMJ6ZKoRQBPznF7w



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-392(LC 3)
Max Grav 5=19(LC 4), 6=1524(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-529/0
WEBS 1-6=-1220/0, 3-6=-777/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

February 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F59G	FLOOR GIRDER	1	1	I50123042
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Wed Feb 9 09:22:42 2022 Page 1

ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-qNrlILNNC_oU3CGwWO4SQstjEhAnDw02VdcaqSzmvox

1-3-0 1-10-12

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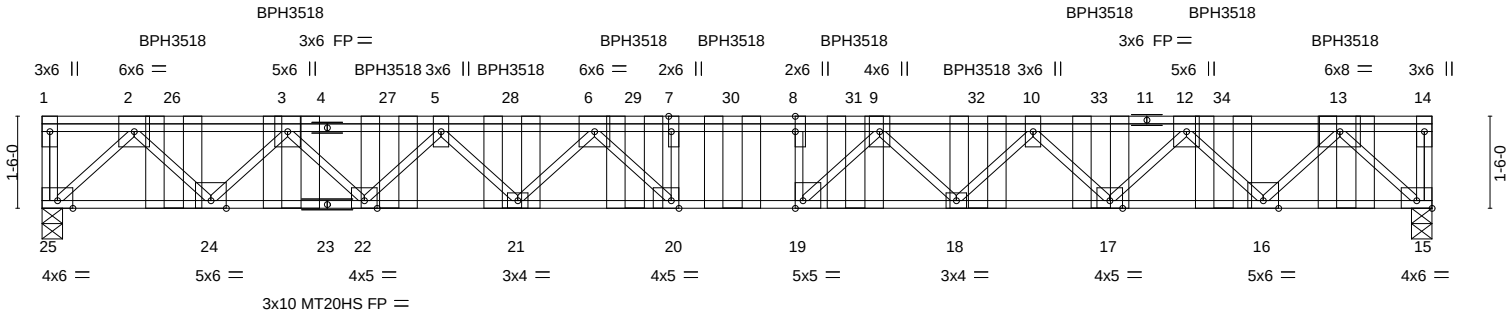

22-7-12

22-7-12

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [8:0-3-0,0-0-0], [15:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.37	19-20	>730	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.54	19	>497	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.13	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11,4-14: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
23-25: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-25,14-15: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 15-16.

REACTIONS. (size) 25=0-4-0, 15=0-4-0
Max Uplift 25=-574(LC 10)
Max Grav 25=1618(LC 13), 15=1760(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-26=-2804/1307, 3-26=-2804/1307, 3-4=-4785/2326, 4-27=-4785/2326, 5-27=-4785/2326, 5-28=-6113/2678, 6-28=-6113/2678, 6-29=-6985/2187, 7-29=-6985/2187, 7-30=-6985/2187, 8-30=-6985/2187, 8-31=-6985/2187, 9-31=-6985/2187, 9-32=-6475/802, 10-32=-6475/802, 10-33=-5169/240, 11-33=-5169/240, 11-12=-5169/240, 12-34=-3051/0, 13-34=-3051/0

BOT CHORD 24-25=-611/1633, 23-24=-2026/3947, 22-23=-2026/3947, 21-22=-2666/5600, 20-21=-2741/6609, 19-20=-2187/6985, 18-19=-1194/6906, 17-18=-473/6013, 16-17=-20/4304, 15-16=0/1772

WEBS 2-25=-2258/844, 2-24=-1009/1697, 3-24=-1658/1043, 3-22=-563/1215, 5-22=-1181/612, 5-21=-111/745, 6-21=-719/91, 6-20=0/1500, 7-20=-884/0, 13-15=-2450/0, 13-16=-57/1855, 12-16=-1816/100, 12-17=-319/1254, 10-17=-1225/337, 10-18=-557/670, 9-18=-624/680, 9-19=-2082/113, 8-19=-75/1341

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 574 lb uplift at joint 25.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 13 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 21-3-0 to connect truss(es) to back face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard Except:

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F59G	FLOOR GIRDER	1	1	I50123042 Job Reference (optional)

LOAD CASE(S) Standard Except:

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-25=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 3=100(B) 13=-78(B) 26=-78(B) 27=100(B) 28=100(B) 29=100(B) 30=100(B) 31=-78(B) 32=-78(B) 33=-78(B) 34=-78(B)

13) User defined: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-25=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 13=-78(B) 26=-78(B) 31=-78(B) 32=-78(B) 33=-78(B) 34=-78(B)

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F60	Floor	12	1	I50123043
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:45 2022 Page 1
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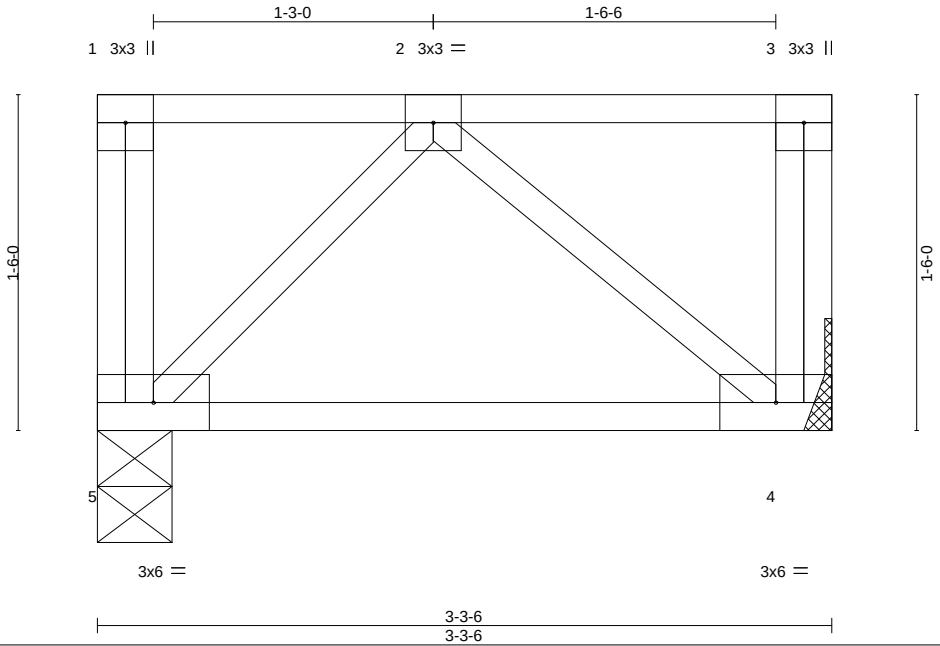

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=197(LC 1), 4=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F61	Floor	5	1	I50123044
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:46 2022 Page 1
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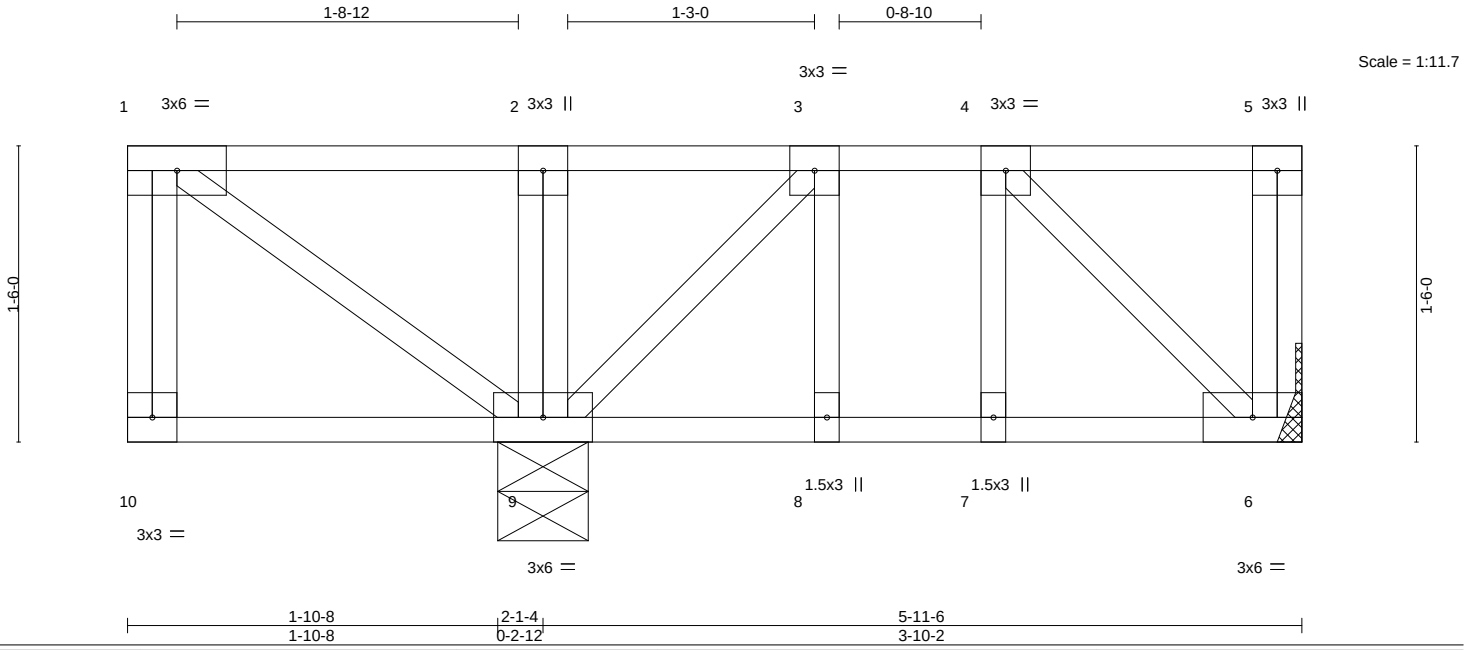

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	0.02	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10.

REACTIONS. (size) 6=Mechanical, 9=0-5-8
Max Uplift 6=-292(LC 3)
Max Grav 6=94(LC 4), 9=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1030, 2-3=0/1029, 3-4=0/455
BOT CHORD 8-9=-455/0, 7-8=-455/0, 6-7=-455/0
WEBS 1-9=-1256/0, 3-9=-924/0, 3-8=0/299, 4-6=0/630, 4-7=-268/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 6.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-600

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F62	Floor	13	1	I50123045
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:46 2022 Page 1
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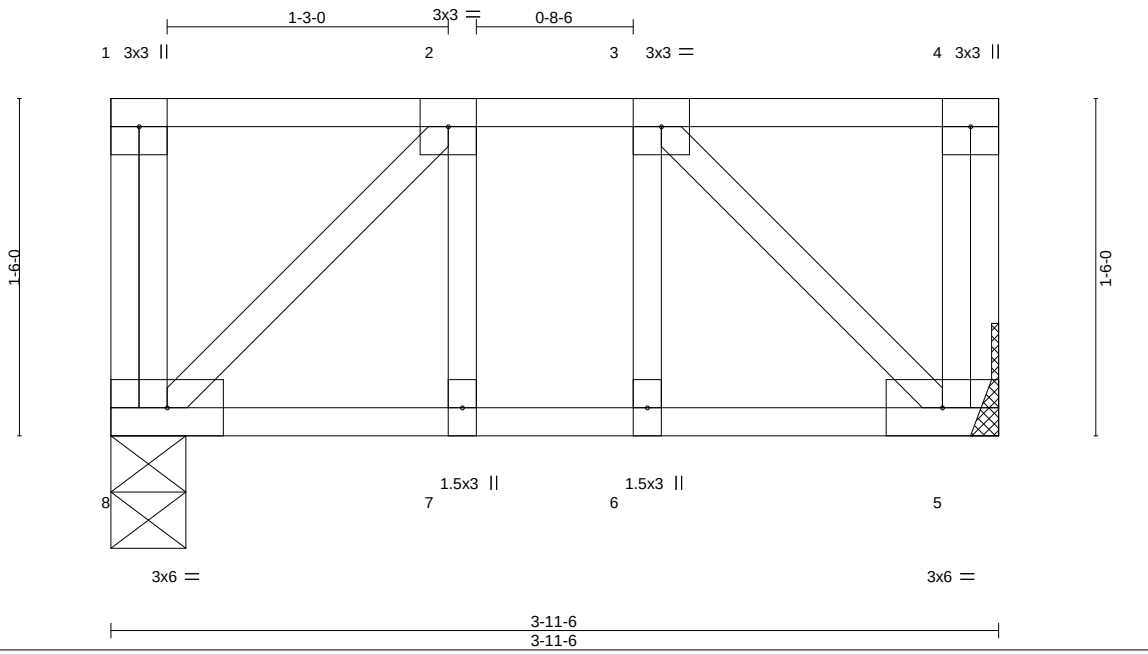

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 28 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 5=Mechanical
Max Grav 8=240(LC 1), 5=240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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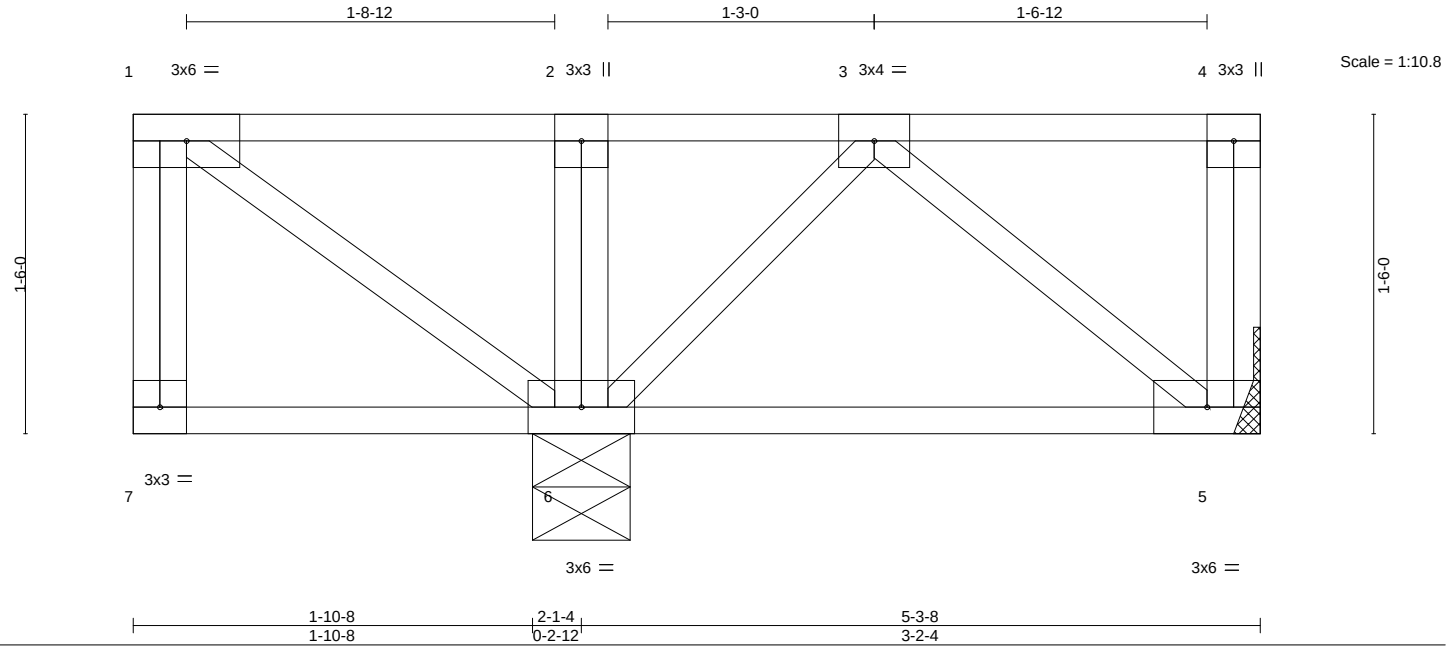
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F63	Floor	5	1	I50123046
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:47 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5LIc0_nyTBghSeWg1PWwTCOQ6MDrI659FQPdKAznF7s



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-390(LC 3)
Max Grav 5=20(LC 4), 6=1523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-531/0
WEBS 1-6=-1220/0, 3-6=-776/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F64	Floor	6	1	I50123047
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:47 2022 Page 1
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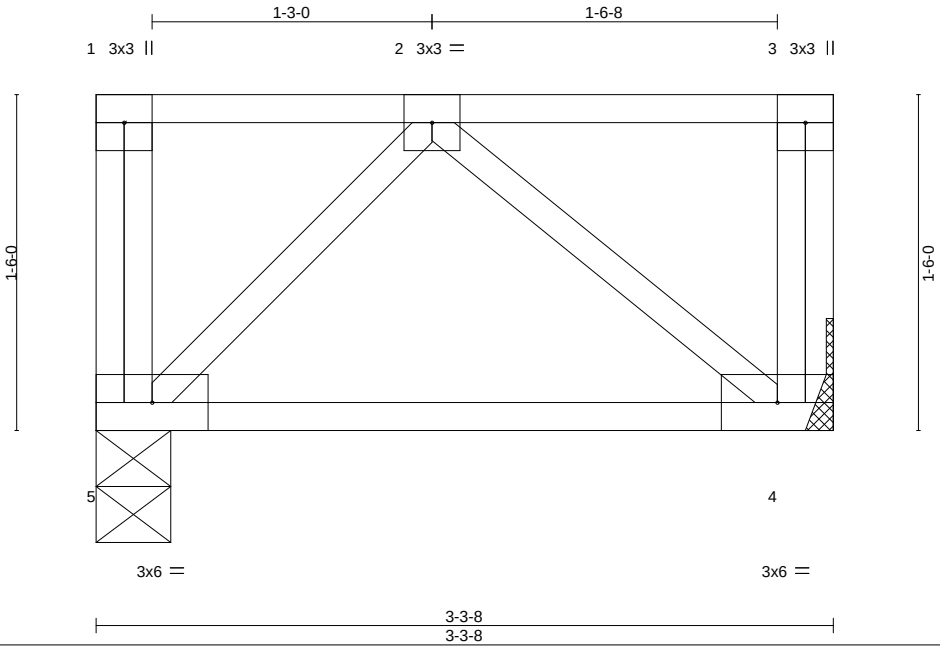

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=198(LC 1), 4=198(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F72	Floor	10	1	I50123048
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:49 2022 Page 1
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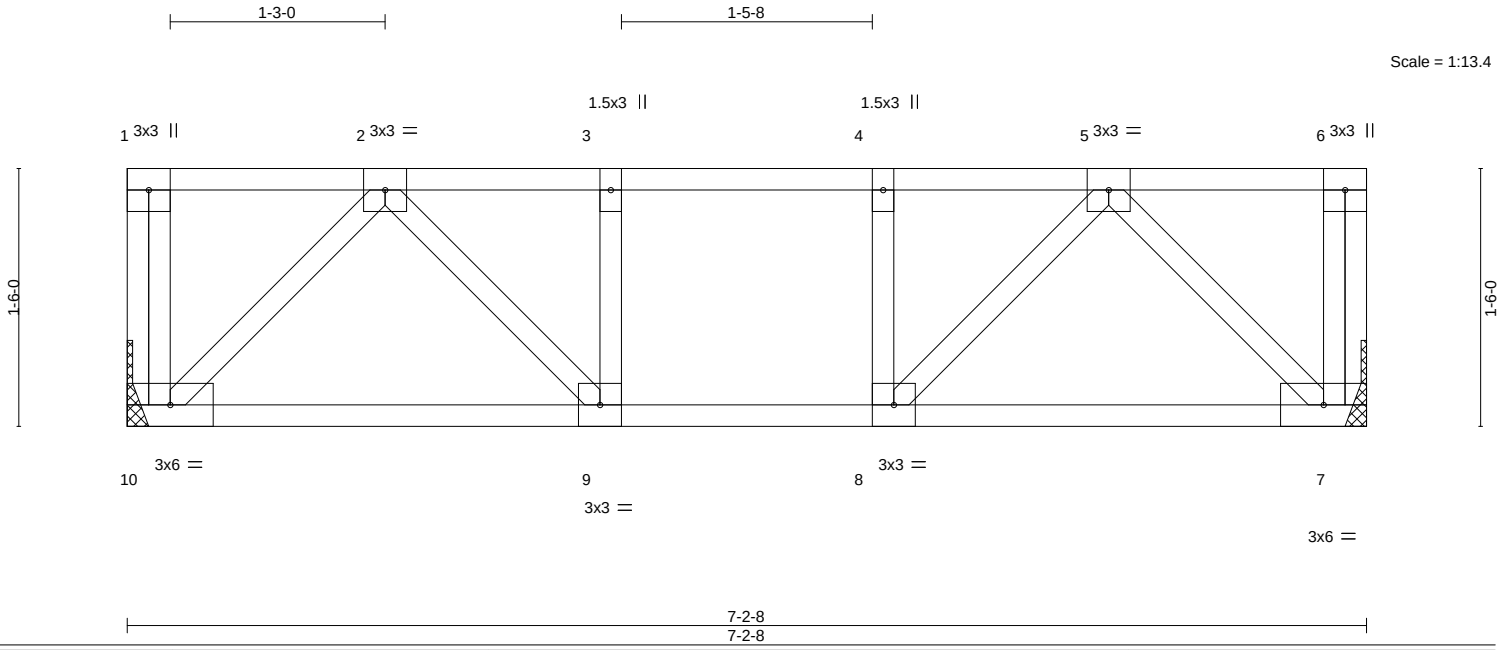

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=870(LC 1), 7=870(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1074/0, 3-4=-1074/0, 4-5=-1074/0
BOT CHORD	9-10=0/723, 8-9=0/1074, 7-8=0/723
WEBS	2-10=-1022/0, 2-9=0/594, 5-7=-1022/0, 5-8=0/594, 4-8=-354/0, 3-9=-354/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	F74	FLOOR	19	1	I50123049
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:49 2022 Page 1
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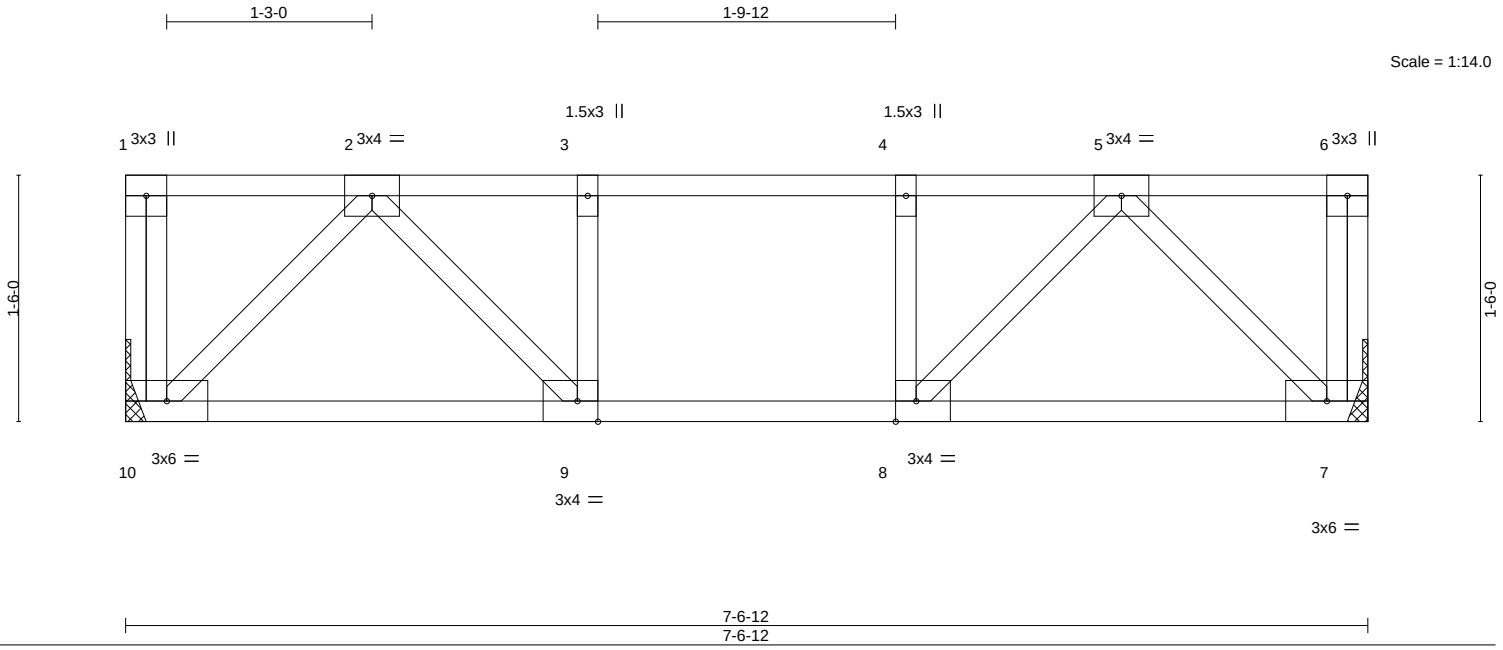

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=914(LC 1), 7=914(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1174/0, 3-4=-1174/0, 4-5=-1174/0
BOT CHORD 9-10=0/764, 8-9=0/1174, 7-8=0/764
WEBS 2-10=-1080/0, 2-9=0/686, 3-9=-418/0, 5-7=-1080/0, 5-8=0/686, 4-8=-418/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	FGR	FLOOR GIRDER	11	1	I50123050
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:51 2022 Page 1
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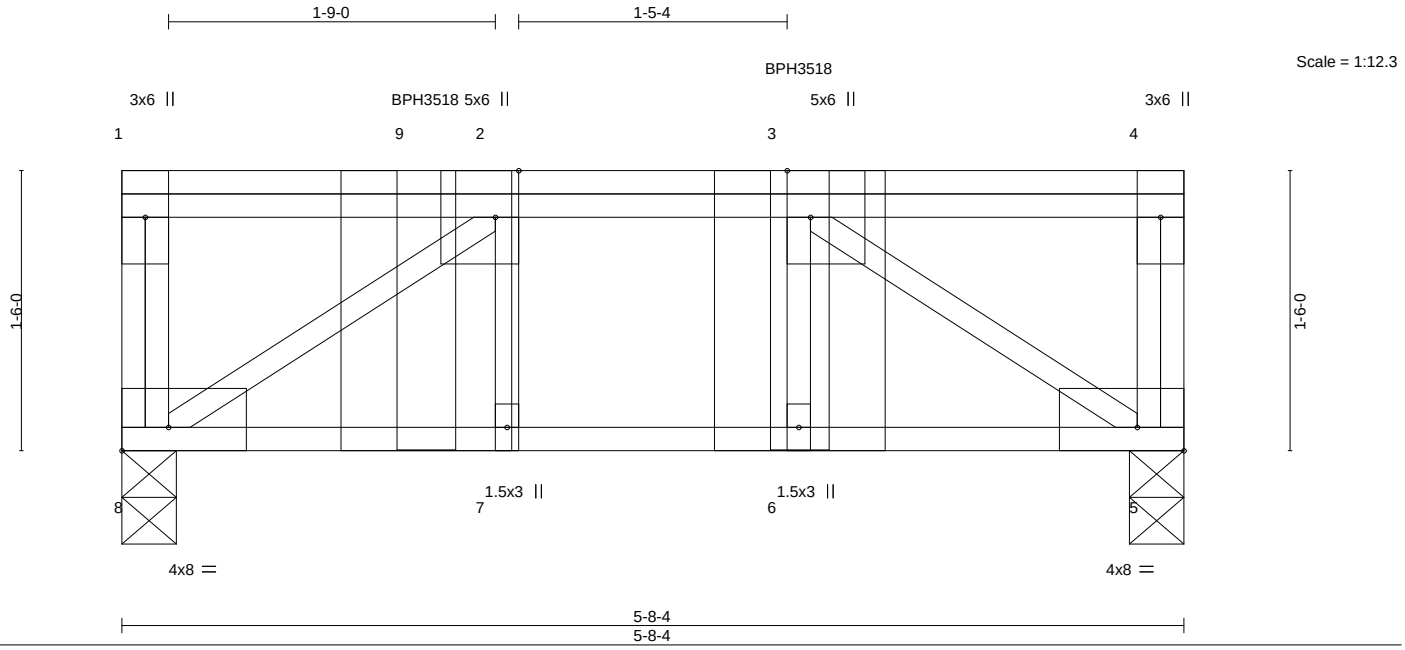

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2063(LC 1), 5=1942(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-537/0, 4-5=-419/0, 2-3=-2282/0
BOT CHORD 7-8=0/2282, 6-7=0/2282, 5-6=0/2282
WEBS 3-5=-2757/0, 2-8=-2757/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 1-7-9 from the left end to connect truss(es) to back face of top chord.
6) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent at 3-7-9 from the left end to connect truss(es) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 3=-765(B) 9=-765(B)

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW1	Floor Supported Gable	3	1	I50123051
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:51 2022 Page 1
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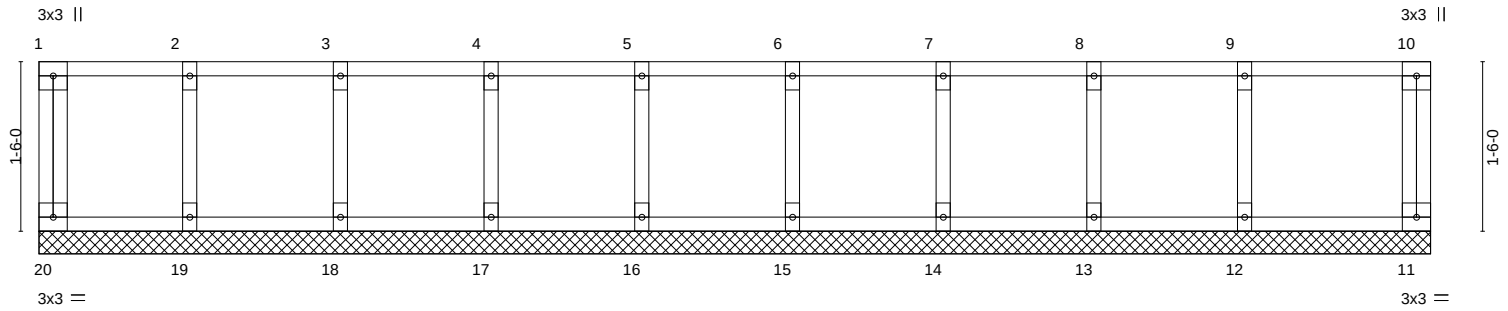

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-3-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW2	Floor Supported Gable	2	1	I50123052
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:57 2022 Page 1
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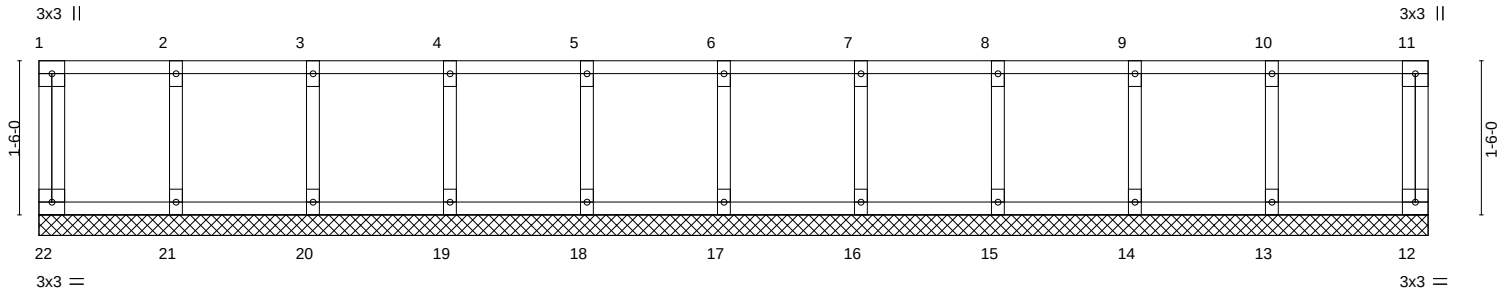

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-6-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW3	Floor Supported Gable	1	1	I50123053
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:58 2022 Page 1
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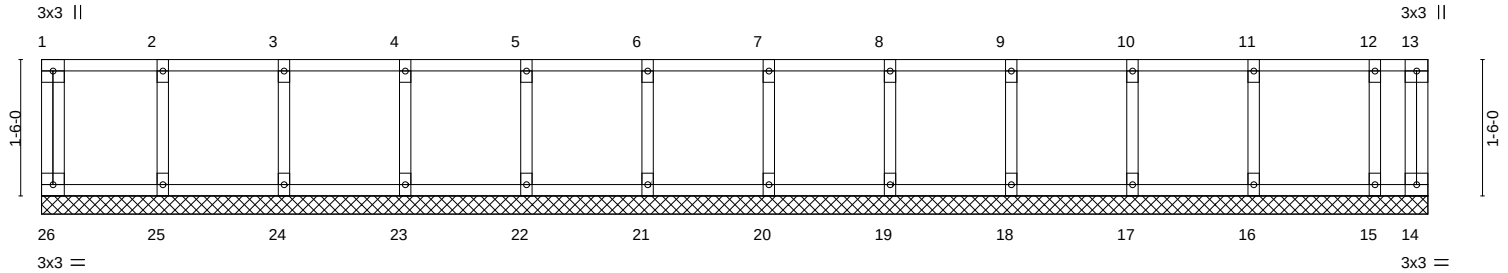

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-3-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW4	Floor Supported Gable	1	1	I50123054
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:59 2022 Page 1
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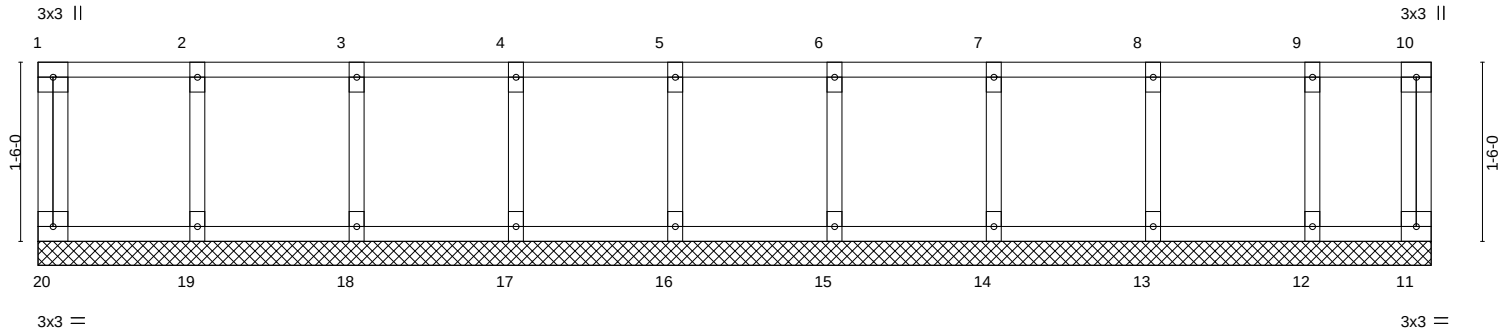

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-7-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-7-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW5	Floor Supported Gable	1	1	I50123055
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:59 2022 Page 1
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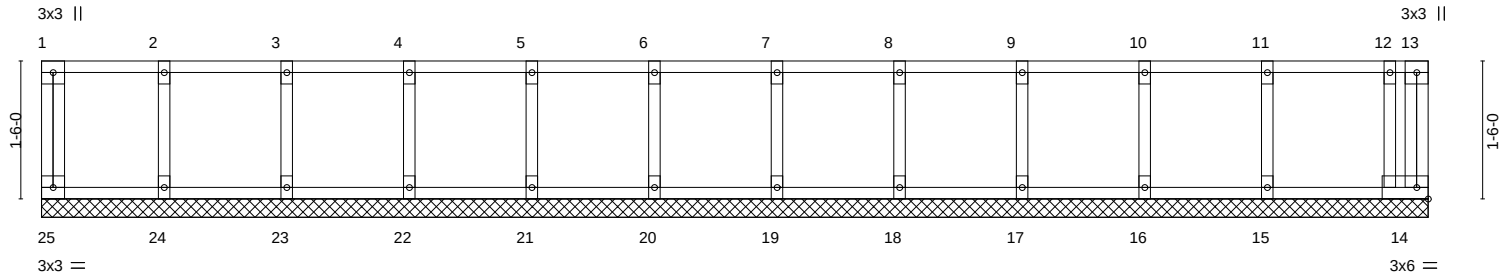

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW6	Floor Supported Gable	1	1	I50123056
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:07:00 2022 Page 1
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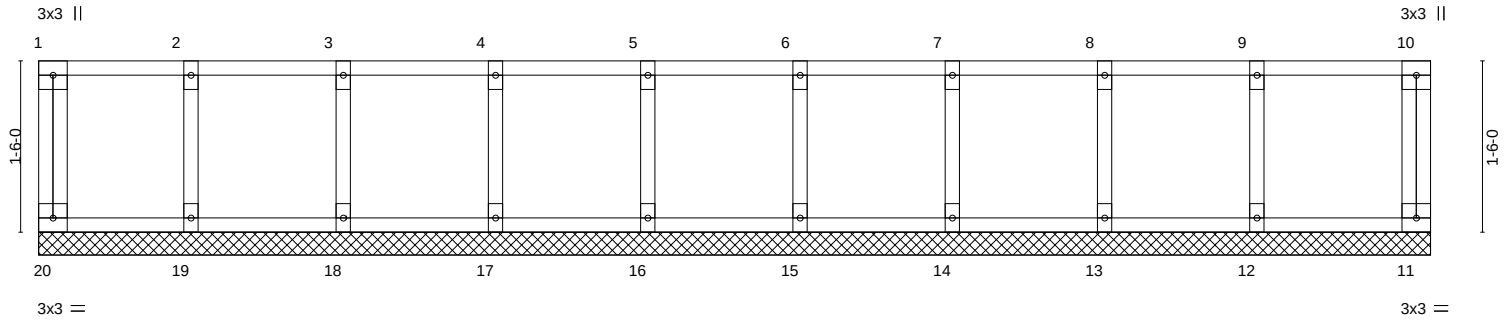

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW7	Floor Supported Gable	2	1	I50123057
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:07:02 2022 Page 1
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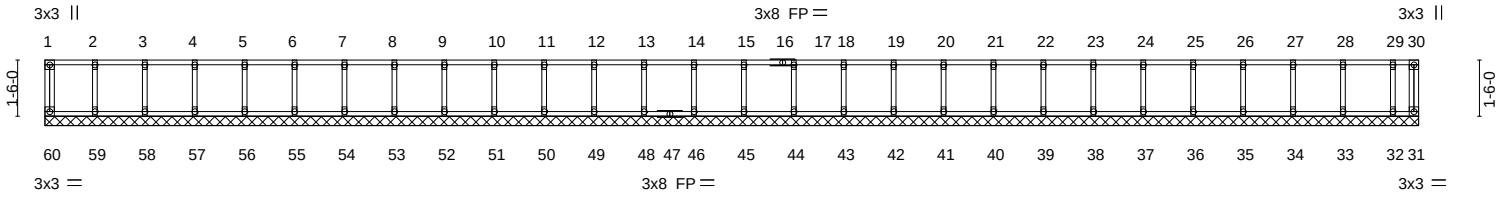

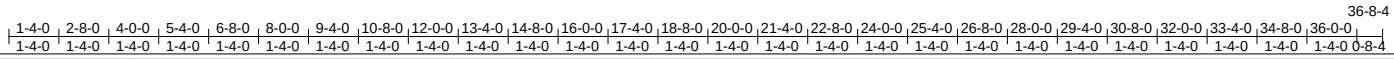

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW8	Floor Supported Gable	1	1	I50123058
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:07:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dQGfNSz_h5hPN6klzmog7a2H1phj2QgWxvHTuFznF7c

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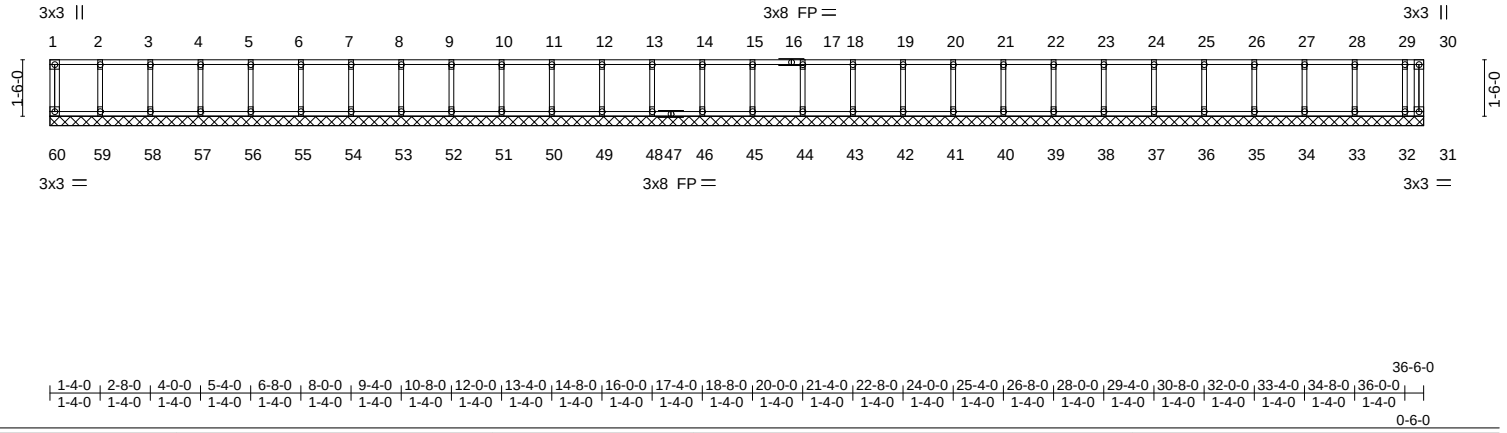

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW9	GABLE	1	1	I50123059
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:07:05 2022 Page 1
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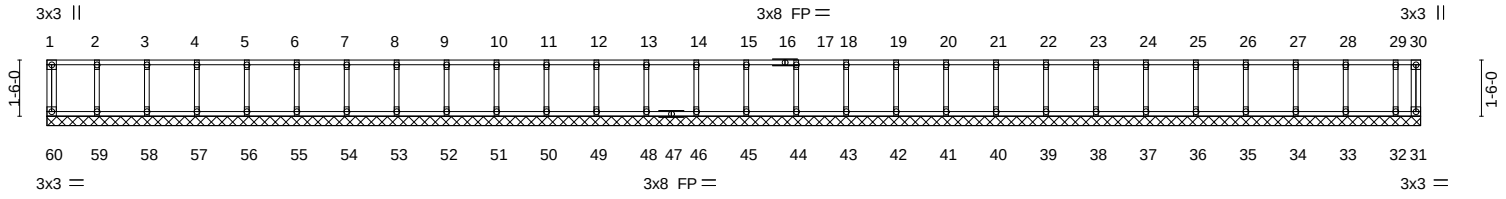

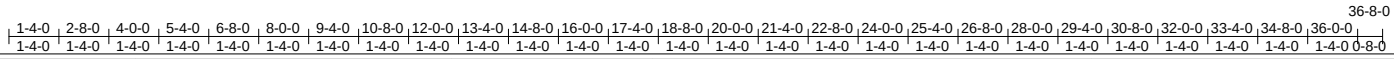

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW10	Floor Supported Gable	2	1	I50123060
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:52 2022 Page 1
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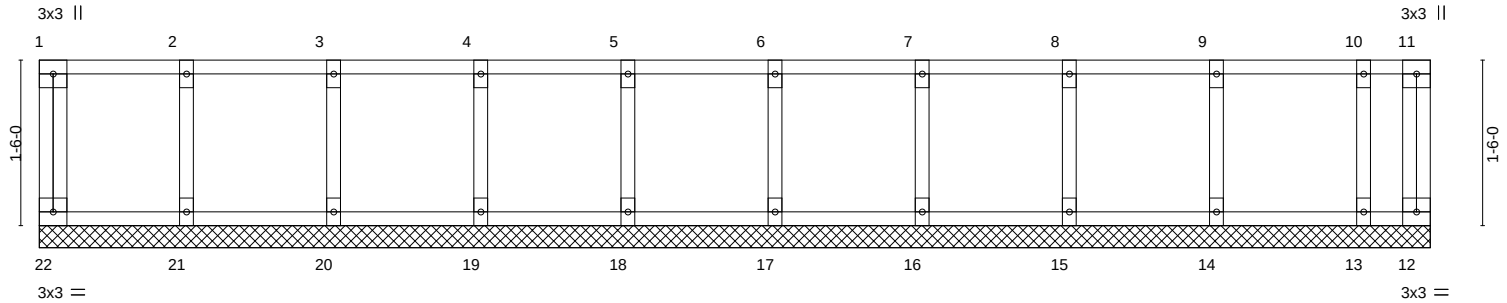

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW11	Floor Supported Gable	1	1	I50123061
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:52 2022 Page 1
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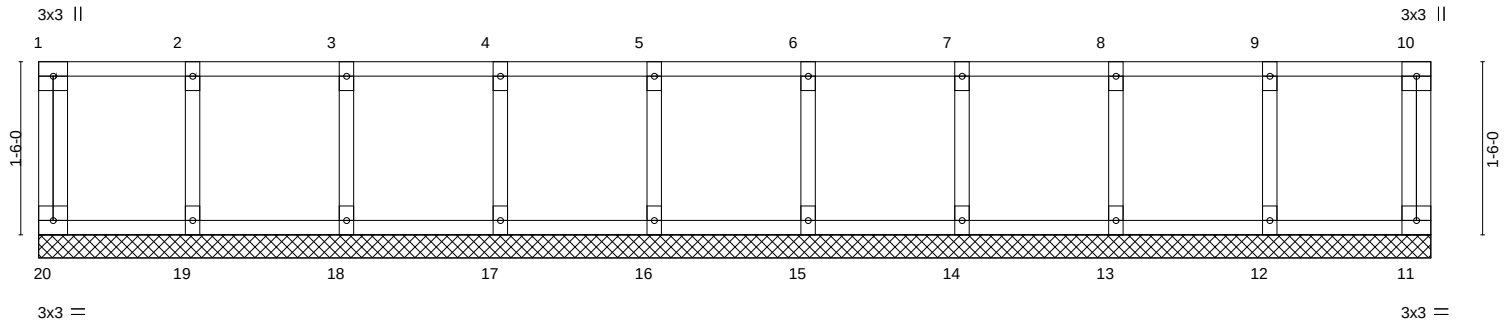

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW12	GABLE	1	1	I50123062
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:53 2022 Page 1
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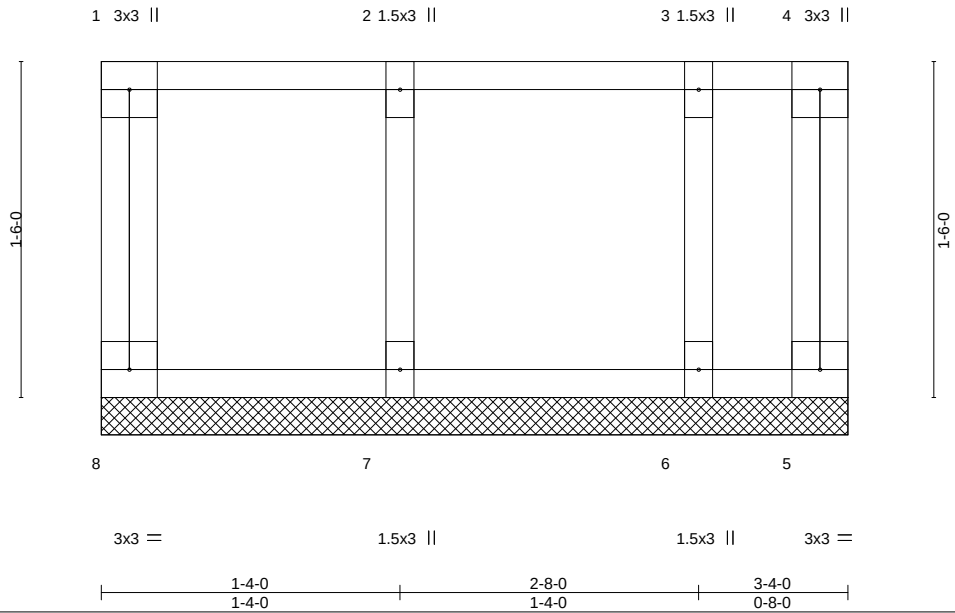

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW13	GABLE	1	1	I50123063
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:53 2022 Page 1
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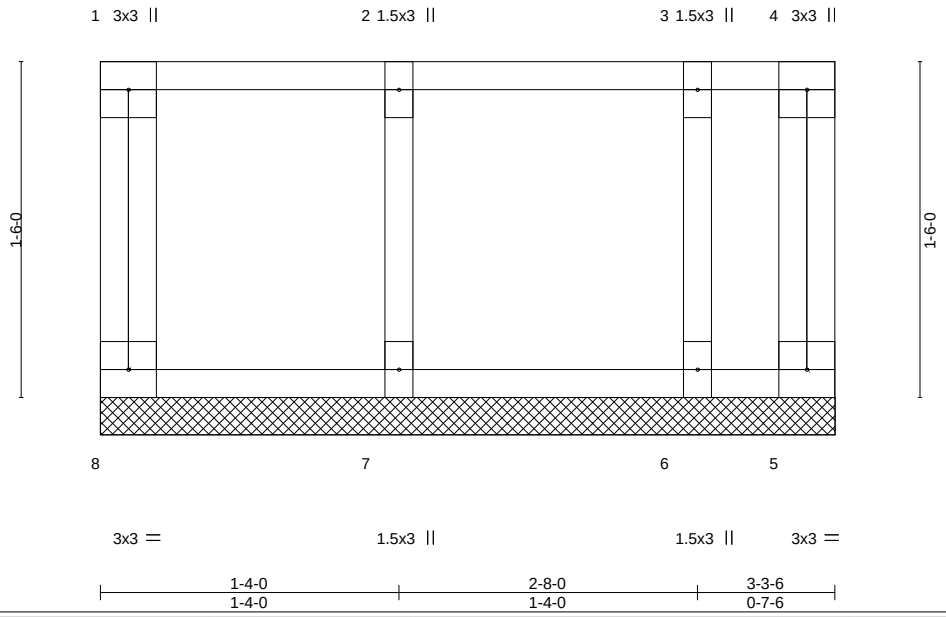

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW14	GABLE	1	1	I50123064
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:54 2022 Page 1
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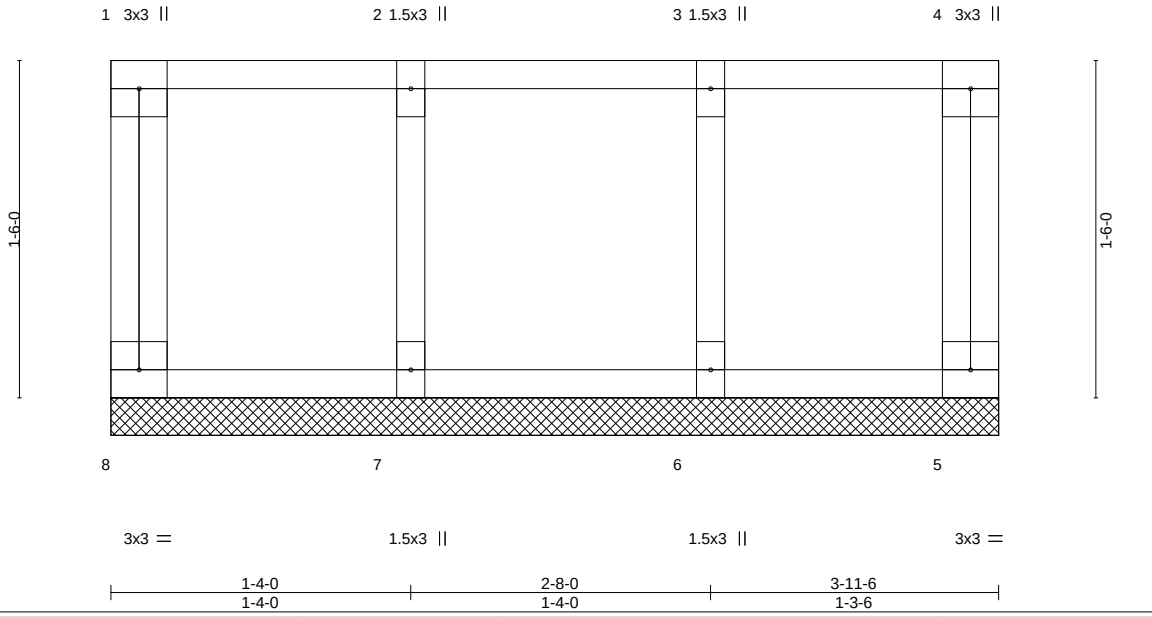

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-11-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW15	GABLE	2	1	I50123065
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:54 2022 Page 1
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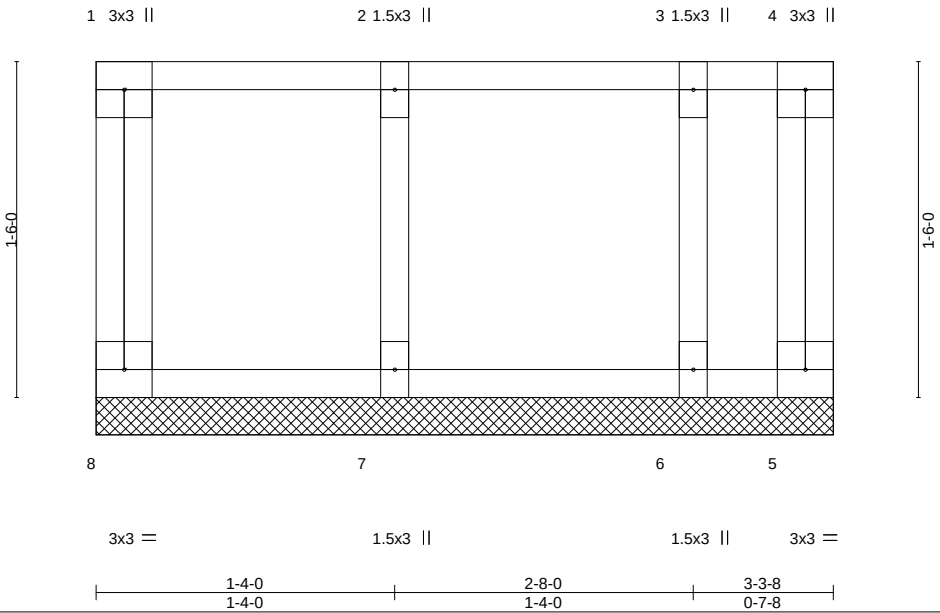

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW16	GABLE	1	1	I50123066
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:55 2022 Page 1
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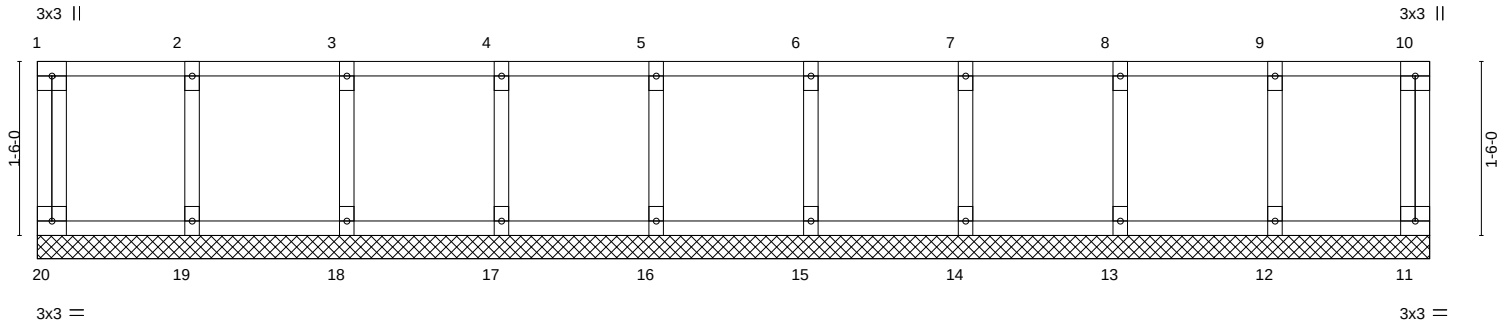

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW17	GABLE	1	1	I50123067
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:55 2022 Page 1
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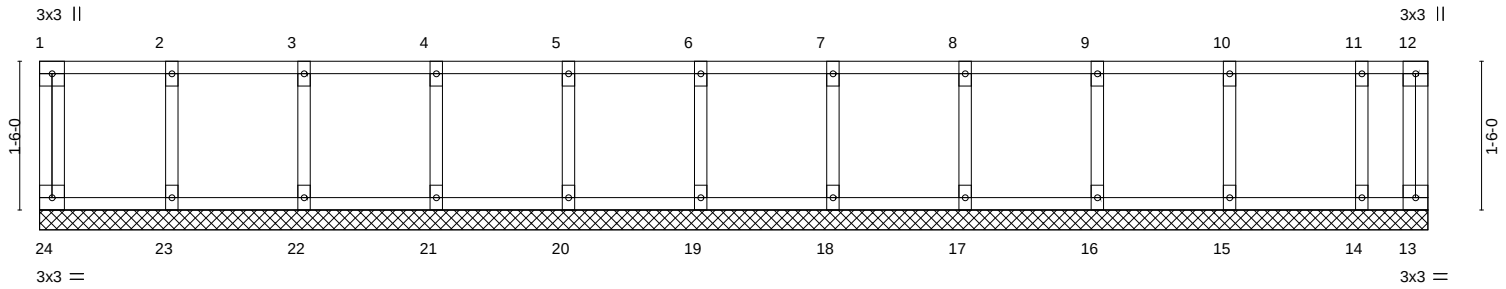

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW18	Floor Supported Gable	1	1	I50123068
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:56 2022 Page 1
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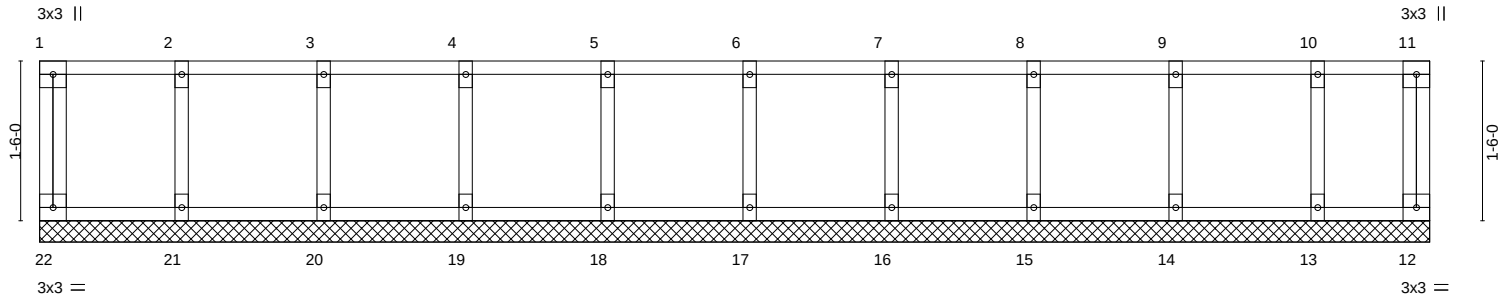

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-0-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-0-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW19	GABLE	1	1	I50123069
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:56 2022 Page 1
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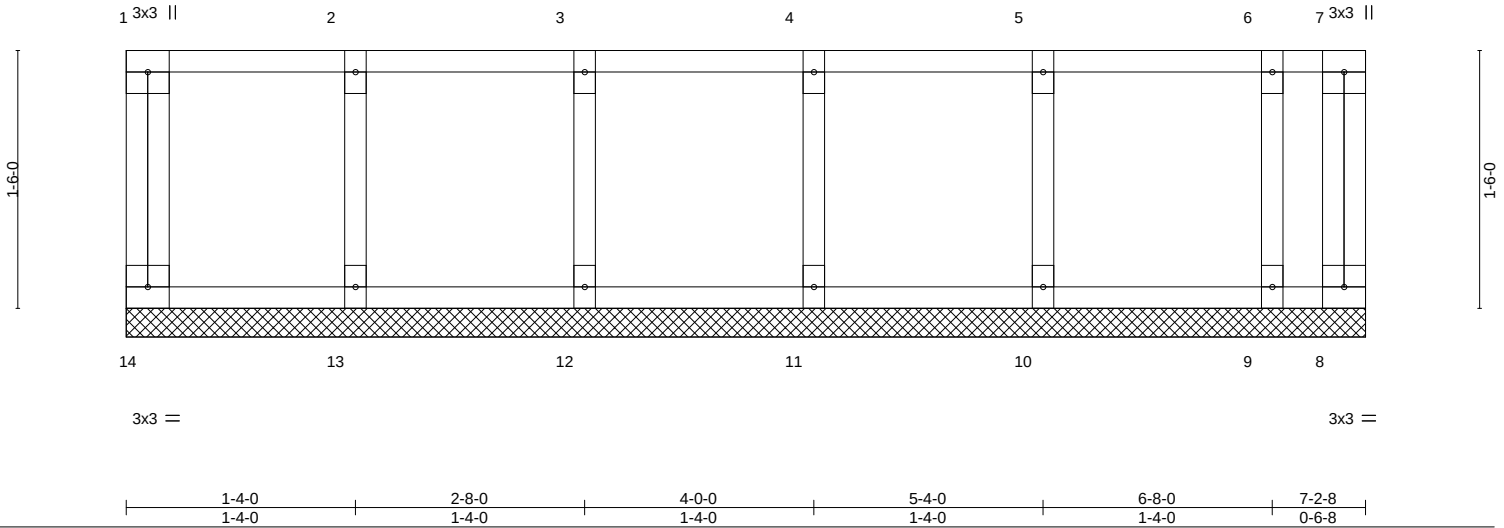

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG #1 (AREA C 3rd LEVEL)
PRYOR-F4C	KW20	Floor Supported Gable	1	1	I50123070
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 8 09:06:58 2022 Page 1
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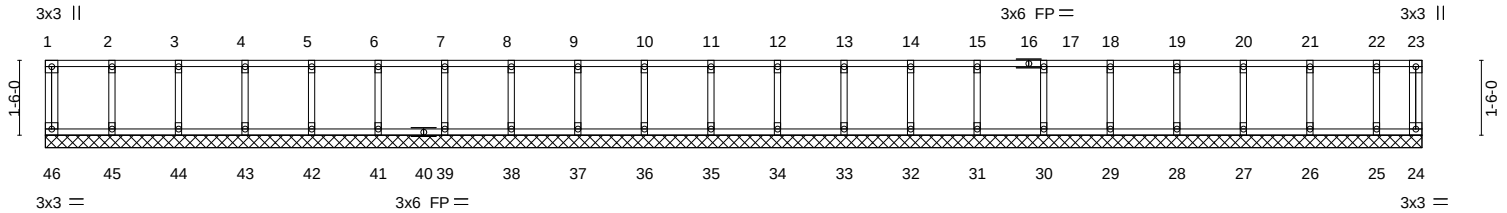

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	27-6-15
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-15

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 127 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-6-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

February 9,2022

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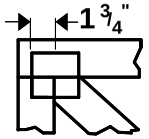
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

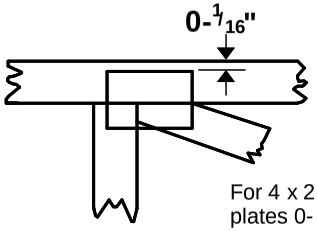
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

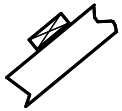
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

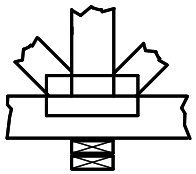
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

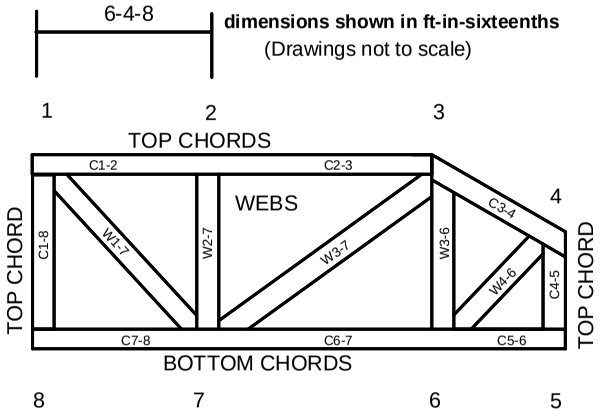


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area D Level 3

Building 1 Area A ROOF

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
Michael J. Falbe, P.E.

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Steven R. Carroll, P.E.
Richard C. Crabtree, P.E.
Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: April 12, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-14 Revision 0: Building 1 - Area A - Roof Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

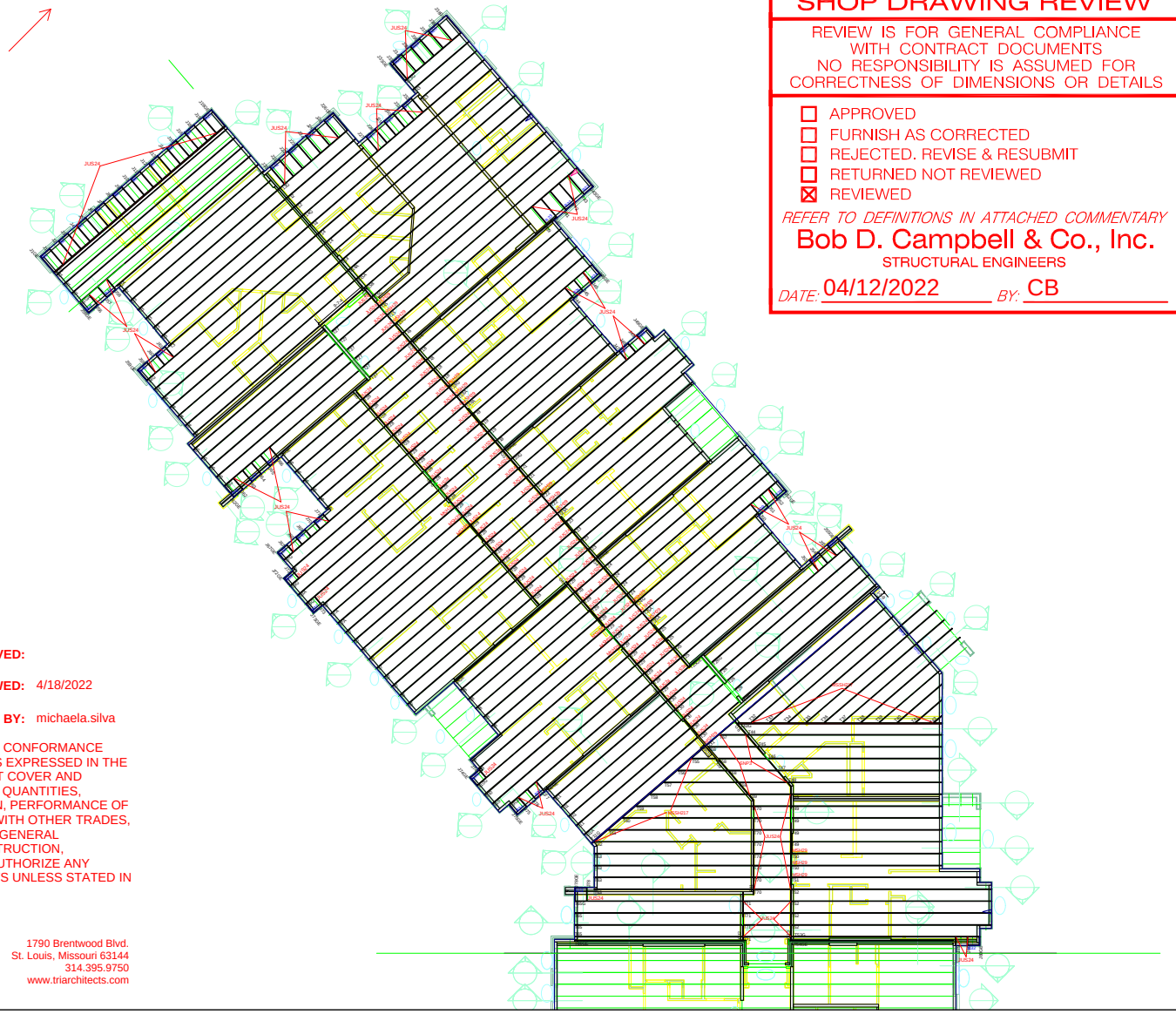
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

Building 1 Area A ROOF



SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 04/12/2022 *BY:* CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 4/18/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the support of temporary and permanent loads. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive; Madison, WI 53719.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

THE SIGNATURE AT WEST PRYOR
BUILDING 1 AREA A
ROOF

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G1	GABLE	1	1	I51164823
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:39 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-HBJpVteGVWvJReTxr_EiB?gzGtWd?SCiLTTwVHzU3AI

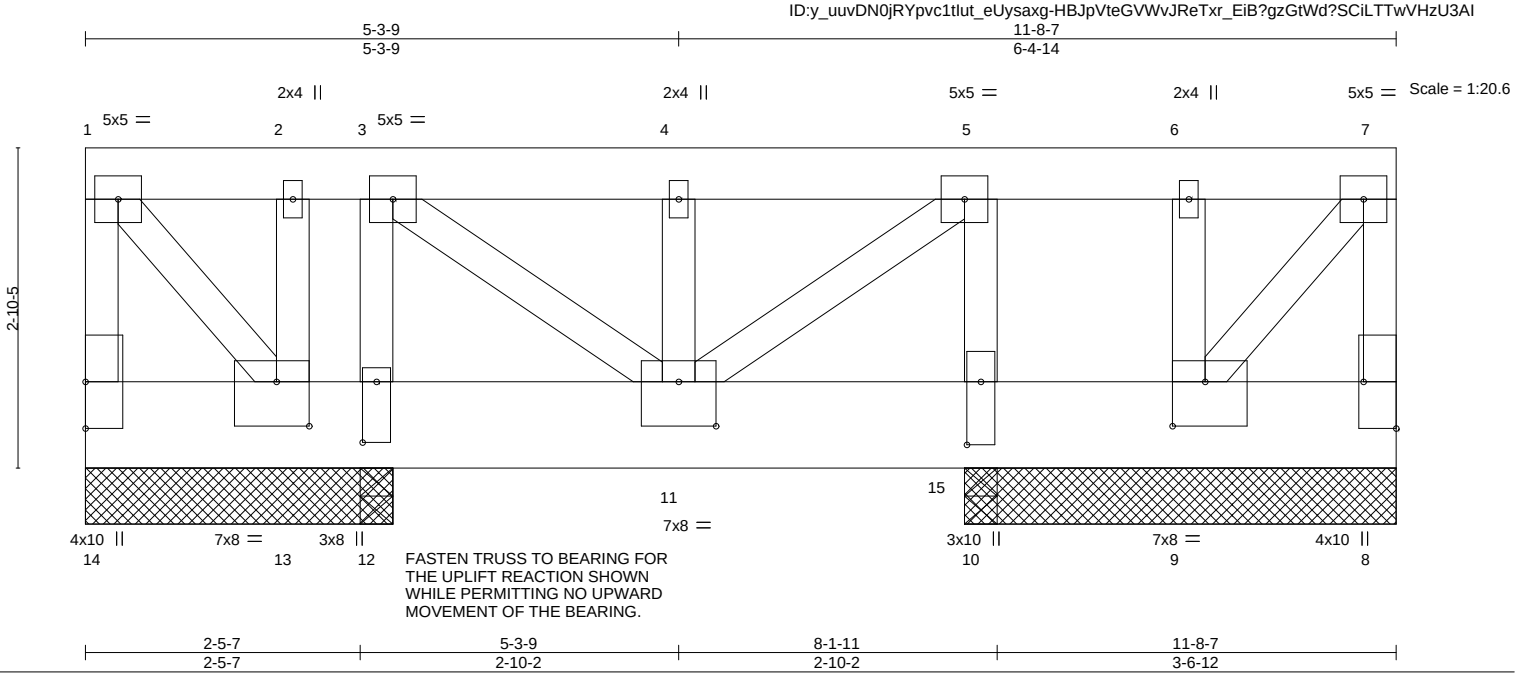


Plate Offsets (X,Y)-- [8:Edge,0-3-8], [9:0-3-8,0-4-12], [10:0-6-12,0-1-8], [11:0-4-0,0-4-12], [12:0-6-8,0-1-8], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.00	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 105 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 2-8-15 except (jt=length) 8=3-10-4, 9=3-10-4, 10=3-10-4, 10=3-10-4.
(lb) - Max Horz 14=107(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-551(LC 39), 8=-631(LC 42), 13=-1920(LC 64), 9=-1007(LC 43), 12=-628(LC 39), 10=-642(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 14=568(LC 46), 8=687(LC 43), 13=506(LC 39), 9=610(LC 42), 12=4260(LC 64), 12=3758(LC 1), 10=2953(LC 63), 10=2473(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-595/636, 1-2=-428/440, 3-4=-1127/987, 4-5=-964/824, 5-6=-282/295, 6-7=-517/530, 7-8=-623/665
BOT CHORD	13-14=-739/742, 12-13=-563/525, 11-12=-563/525, 10-11=-949/913, 9-10=-841/804, 8-9=-632/635
WEBS	3-11=-1392/1591, 5-11=-1438/1639, 2-13=-234/261, 3-12=-1005/929, 5-10=-1172/1102, 1-13=-848/834, 7-9=-883/867

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 551 lb uplift at joint 14, 631 lb uplift at joint 8, 1920 lb uplift at joint 13, 1007 lb uplift at joint 9, 628 lb uplift at joint 12 and 642 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 2-7-0, 7-8-4 to 11-8-7 for 354.8 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

SHOP DRAWING REVIEW

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- ☐ REJECTED. REVISE & RESUBMIT
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- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 04/12/2022 BY: CB

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 4/18/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

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TRI ARCHITECTS
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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G1	GABLE	1	1	I51164823
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 12-14=-20, 12-15=-690(F=-670), 8-15=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

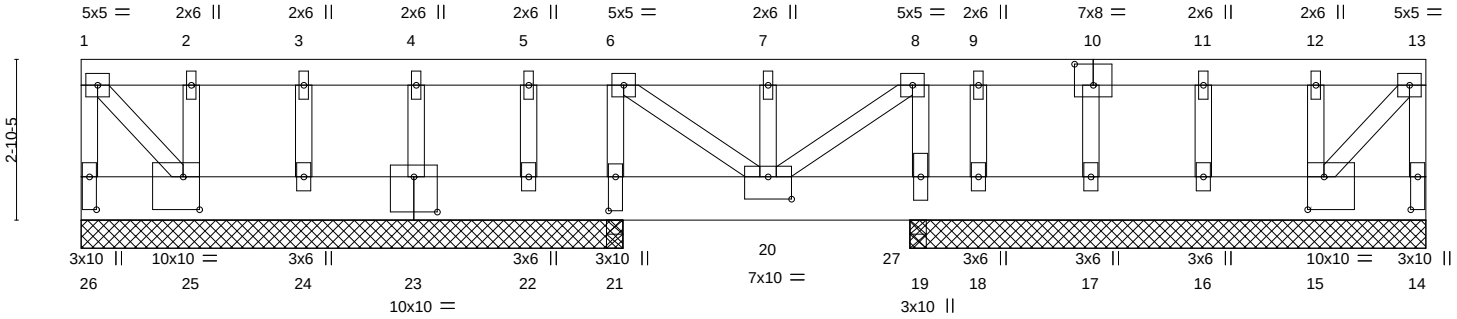
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G2	GABLE	1	1	I51164824
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-wV1L0_nogCQctUOEYWSWgX9zLjc7pr6T6KNZwazU3A6

4-9-0 | 9-6-1 | 12-2-10 | 14-11-3 | 19-5-1 | 23-11-0
4-9-0 | 4-9-0 | 2-8-9 | 2-8-9 | 4-5-15 | 4-5-15

Scale = 1:41.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

4-9-0 | 9-6-1 | 9-7-10 | 12-2-10 | 14-8-14 | 14-11-3 | 19-5-1 | 23-11-0
4-9-0 | 4-9-0 | 0-1-9 | 2-7-0 | 2-6-4 | 0-2-5 | 4-5-15 | 4-5-15

Plate Offsets (X,Y)-- [10:0-4-0,0-4-8], [14:0-7-0,0-1-8], [15:0-3-8,0-7-0], [20:0-5-0,0-4-12], [21:0-7-4,0-1-8], [23:0-5-0,0-7-8], [25:0-3-8,0-7-0], [26:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.01	20	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	20	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 197 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-2-2 except (jt=length) 26=9-7-10, 22=9-7-10, 23=9-7-10, 24=9-7-10, 25=9-7-10, 21=0-4-13 (input: 0-3-8), 21=0-4-13 (input: 0-3-8).
(lb) - Max Horz 26=-80(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 17, 16 except 26=-1329(LC 43), 14=-1269(LC 46), 19=-1136(LC 42), 22=-975(LC 63), 25=-1295(LC 42), 18=-1543(LC 64), 15=-1251(LC 39), 21=-1179(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 22, 24, 18, 16 except 26=1299(LC 42), 14=1250(LC 39), 19=4606(LC 63), 19=3703(LC 1), 23=360(LC 1), 25=1415(LC 43), 17=327(LC 1), 15=1379(LC 60), 21=4104(LC 64), 21=3193(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-26=-1280/1315, 1-2=-1026/1051, 2-3=-684/713, 3-4=-300/325, 4-5=-537/562, 5-6=-845/860, 6-7=-1070/730, 7-8=-1101/809, 8-9=-799/825, 9-10=-594/619, 10-11=-292/318, 11-12=-660/696, 12-13=-1018/1044, 13-14=-1216/1258
BOT CHORD	25-26=-526/529, 24-25=-655/581, 23-24=-503/467, 22-23=-1018/981, 21-22=-1407/1370, 20-21=-1407/1370, 19-20=-1410/1373, 18-19=-1283/1246, 17-18=-1025/987, 16-17=-521/483, 15-16=-624/535, 14-15=-462/459
WEBS	6-21=-1694/1424, 6-20=-2114/2519, 8-20=-2158/2563, 8-19=-1621/1354, 1-25=-1746/1713, 13-15=-1643/1608

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 21, 21 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 17, 16 except (jt=lb) 26=1329, 14=1269, 19=1136, 22=975, 25=1295, 18=1543, 15=1251, 21=1179.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164824
PRYOR-B1RA	G2	GABLE	1	1	Job Reference (optional)

NOTES-

10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-5-14, 14-5-2 to 23-11-0 for 252.0 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 21-26=-20, 19-21=-781(F=-761), 14-19=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

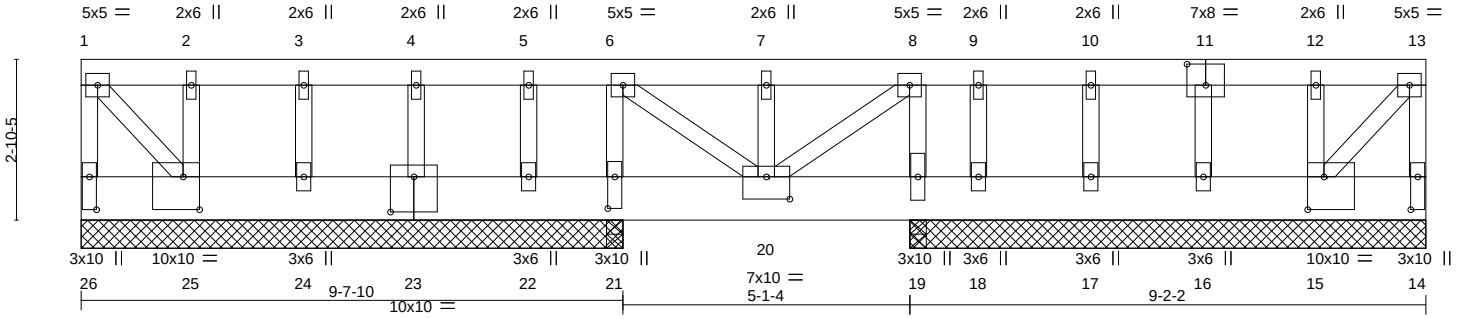
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G3	GABLE	1	1	I51164825
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:53 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-tt95Rfp2CpgK6oYdgwV_lyFJ_XGOHn7mZesg?TzU3A4

9-5-14 (9-5-14) | 12-2-4 (2-8-5) | 14-10-9 (2-8-5) | 23-11-0 (9-0-7)

Scale = 1:41.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-5-14 (9-5-14) | 9-7-10 (0-1-12) | 12-2-4 (2-6-10) | 14-8-14 (2-6-10) | 14-10-9 (0-1-11) | 23-11-0 (9-0-7)

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [14:0-7-0,0-1-8], [15:0-3-8,0-7-0], [20:0-5-0,0-4-12], [21:0-6-12,0-1-8], [23:0-5-0,0-7-8], [25:0-3-8,0-7-0], [26:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.00	21	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	20	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	-0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 197 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-7-10 except (jt=length) 14=9-2-2, 18=9-2-2, 17=9-2-2, 16=9-2-2, 15=9-2-2, 21=0-4-5 (input: 0-3-8), 21=0-4-5 (input: 0-3-8), 19=0-4-14 (input: 0-3-8), 19=0-4-14 (input: 0-3-8).
(lb) - Max Horz 26=-157(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 17, 16 except 26=-1312(LC 39), 14=-1248(LC 42), 22=-959(LC 1), 25=-1306(LC 42), 18=-1424(LC 1), 15=-1238(LC 39), 21=-1043(LC 39), 19=-990(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 22, 24, 18, 16 except 26=1328(LC 46), 14=1269(LC 59), 23=383(LC 1), 25=1388(LC 59), 17=353(LC 1), 15=1331(LC 60), 21=3641(LC 1), 21=3641(LC 1), 19=4135(LC 1), 19=4135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-26=-1290/1295, 1-2=-1062/1058, 2-3=-699/696, 3-4=-294/298, 4-5=-515/512, 5-6=-821/819, 6-7=-704/500, 7-8=-704/572, 8-9=-786/789, 9-10=-570/573, 10-11=-281/284, 11-12=-667/663, 12-13=-1029/1026, 13-14=-1248/1257
BOT CHORD	25-26=-607/610, 24-25=-557/556, 23-24=-552/551, 22-23=-1069/1061, 21-22=-1460/1462, 20-21=-1460/1462, 19-20=-1285/1275, 18-19=-1285/1275, 17-18=-995/1001, 16-17=-503/493, 15-16=-590/530, 14-15=-465/465
WEBS	6-21=-1141/1148, 6-20=-1734/1765, 8-20=-1777/1801, 8-19=-1093/1099, 1-25=-1696/1697, 13-15=-1593/1588

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 21, 21, 19, 19 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 17, 16 except (jt=lb) 26=1312, 14=1248, 22=959, 25=1306, 18=1424, 15=1238, 21=1043, 19=990.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G3	GABLE	1	1	I51164825
					Job Reference (optional)

NOTES-

10) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-7-10, 14-8-14 to 23-11-0 for 254.3 plf.
12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 21-26=-20, 19-21=-908(F=-888), 14-19=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

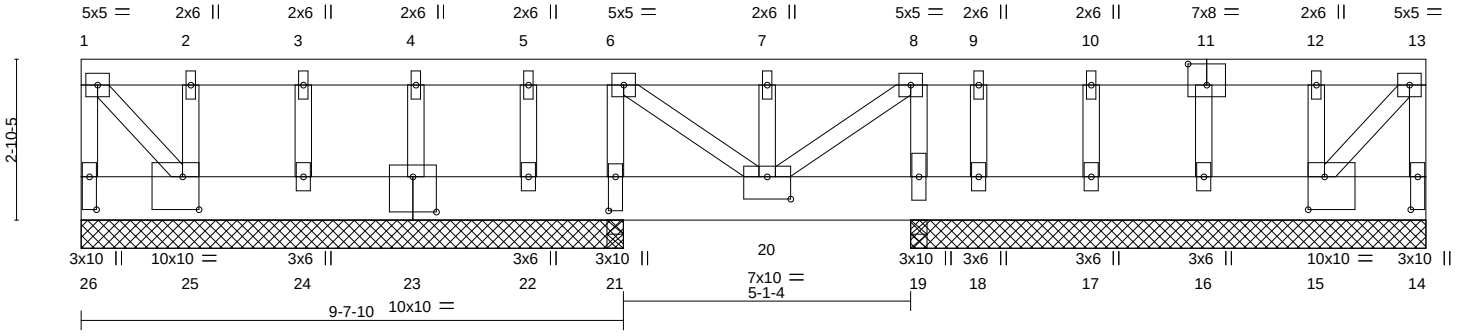
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G4	GABLE	1	1	I51164826
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:56 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-HSrE3hrwVk2uzFGCL32hNatq?kJGT5ICFc5KbozU3A1

9-5-15 (9-5-15) | 12-2-4 (2-8-6) | 14-10-10 (2-8-6) | 23-10-12 (9-0-2)

Scale = 1:40.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-5-15 (9-5-15) | 9-7-10 (0-1-11) | 12-2-4 (2-6-10) | 14-8-14 (2-6-9) | 14-10-10 (0-1-12) | 23-10-12 (9-0-2)

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [14:0-7-0,0-1-8], [15:0-3-8,0-7-0], [20:0-5-0,0-4-12], [21:0-7-4,0-1-8], [23:0-5-0,0-7-8], [25:0-3-8,0-7-0], [26:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.01	20	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	20	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 196 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-1-14 except (jt=length) 26=9-7-10, 22=9-7-10, 23=9-7-10, 24=9-7-10, 25=9-7-10, 21=0-4-15 (input: 0-3-8), 21=0-4-15 (input: 0-3-8).
(lb) - Max Horz 26=-136(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 17, 16 except 26=-1346(LC 43), 14=-1269(LC 46), 19=-1150(LC 42), 22=-986(LC 63), 25=-1310(LC 42), 18=-1507(LC 64), 15=-1241(LC 39), 21=-1186(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 22, 24, 18, 16 except 26=1315(LC 42), 14=1250(LC 39), 19=4637(LC 63), 19=3720(LC 1), 23=361(LC 1), 25=1430(LC 43), 17=334(LC 1), 15=1368(LC 60), 21=4167(LC 64), 21=3247(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-1296/1331, 1-2=-1033/1058, 2-3=-693/722, 3-4=-309/334, 4-5=-527/553, 5-6=-837/852, 6-7=-1082/738, 7-8=-1100/802, 8-9=-807/833, 9-10=-595/621, 10-11=-305/330, 11-12=-661/695, 12-13=-1015/1041, 13-14=-1216/1258
BOT CHORD 25-26=-585/588, 24-25=-602/528, 23-24=-567/531, 22-23=-1092/1055, 21-22=-1487/1450, 20-21=-1487/1450, 19-20=-1323/1285, 18-19=-1323/1285, 17-18=-1052/1014, 16-17=-541/503, 15-16=-617/528, 14-15=-465/463
WEBS 6-21=-1708/1433, 6-20=-2119/2530, 8-20=-2164/2575, 8-19=-1647/1374, 1-25=-1763/1730, 13-15=-1644/1609

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 21, 21 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 17, 16 except (jt=lb) 26=1346, 14=1269, 19=1150, 22=986, 25=1310, 18=1507, 15=1241, 21=1186.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164826
PRYOR-B1RA	G4	GABLE	1	1	Job Reference (optional)

NOTES-

10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-7-10, 14-9-14 to 23-10-12 for 255.5 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 21-26=-20, 19-21=-803(F=-783), 14-19=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G5	GABLE	1	1	I51164827
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-h1WNhjtpofQTqj?n0BbO?DVFzxN1gQDeyaJ_C7zU3A_

20-5-7
20-5-7

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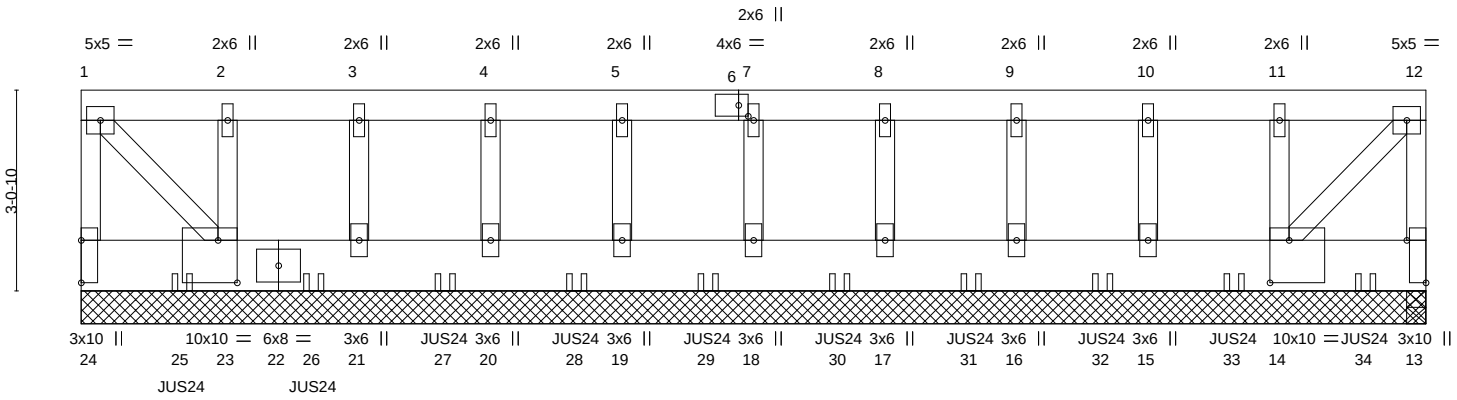

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

20-5-7
20-5-7

Plate Offsets (X,Y)-- [6:0-1-12,0-2-0], [13:Edge,0-3-8], [14:0-3-8,0-7-12], [23:0-3-8,0-7-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.00	14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	14	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.00	18	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-5-7.
(lb) - Max Horz 24=-74(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 20, 21, 17, 16, 15 except 24=-2379(LC 39), 13=-2378(LC 42), 23=-2401(LC 42), 14=-2391(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 24=2436(LC 60), 13=2519(LC 59), 13=336(LC 1), 18=732(LC 1), 19=728(LC 1), 20=739(LC 1), 21=697(LC 1), 23=2772(LC 59), 17=728(LC 1), 16=740(LC 1), 15=694(LC 1), 14=2779(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-24=-2344/2347, 1-2=-2027/2021, 2-3=-1611/1605, 3-4=-1208/1209, 4-5=-811/809, 5-7=-411/409, 7-8=-411/409, 8-9=-811/809, 9-10=-1208/1209, 10-11=-1611/1605, 11-12=-2027/2021, 12-13=-2367/2378
BOT CHORD	23-24=-471/475, 21-23=-1648/1649, 20-21=-1242/1248, 19-20=-823/838, 18-19=-432/425, 17-18=-448/448, 16-17=-848/848, 15-16=-1248/1208, 14-15=-1648/1648, 13-14=-409/410
WEBS	1-23=-3122/3127, 12-14=-3077/3077

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 20, 21, 17, 16, 15 except (jt=lb) 24=2379, 13=2378, 23=2401, 14=2391.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-5-7 for 200.0 plf.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-7 from the left end to 19-6-7 to connect truss(es) to back face of bottom chord.

April 5,2022

Continued to page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164827
PRYOR-B1RA	G5	GABLE	1	1	Job Reference (optional)

NOTES-

12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-70, 13-24=-20
   Concentrated Loads (lb)
   Vert: 25=-551(B) 26=-551(B) 27=-551(B) 28=-551(B) 29=-551(B) 30=-551(B) 31=-551(B) 32=-551(B) 33=-551(B) 34=-553(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

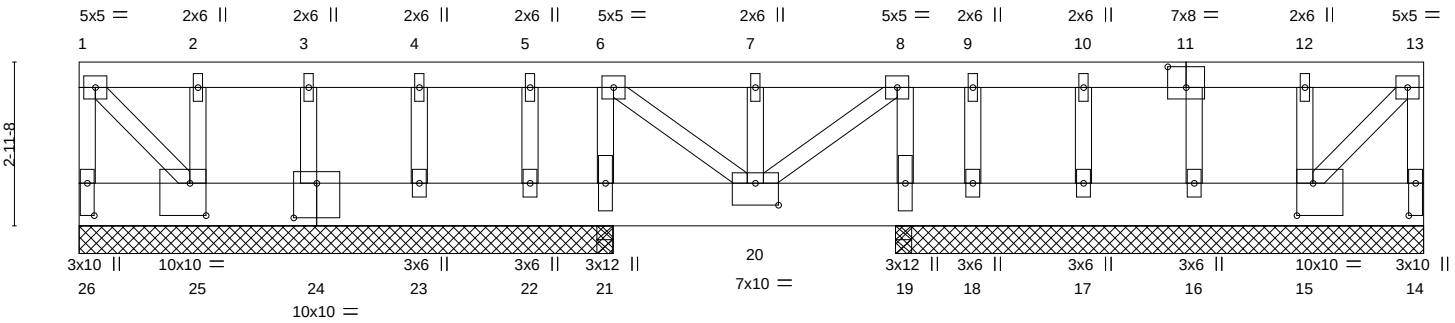
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G6	GABLE	1	1	I51164828
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-6cCVKkwh5ap2hAkMiJ95dr7rf9Motpr4eYYeoSzU39x

9-6-2 | 12-2-10 | 14-11-2 | 24-3-8
9-6-2 | 2-8-8 | 2-8-8 | 9-4-6

Scale = 1:41.6



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-6-2 | 9-7-12 | 12-2-10 | 14-9-0 | 14-11-2 | 24-3-8
9-6-2 | 0-1-10 | 2-6-14 | 2-6-6 | 0-2-2 | 9-4-6

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [14:0-7-0,0-1-8], [15:0-3-8,0-7-0], [20:0-5-0,0-4-12], [24:0-5-0,0-7-8], [25:0-3-8,0-7-0], [26:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.01	20	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	20	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-6-8 except (jt=length) 26=9-7-12, 24=9-7-12, 22=9-7-12, 23=9-7-12, 25=9-7-12, 21=0-5-1 (input: 0-3-8), 21=0-5-1 (input: 0-3-8).
(lb) - Max Horz 26=-161(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 24, 23, 17, 16 except 26=-1310(LC 43), 14=-1277(LC 46), 19=-1180(LC 42), 22=-1125(LC 63), 25=-1268(LC 42), 18=-1284(LC 64), 15=-1284(LC 39), 21=-1198(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 24, 22, 18, 16 except 26=1286(LC 42), 14=1264(LC 39), 19=4394(LC 63), 19=3463(LC 1), 23=354(LC 1), 25=1390(LC 43), 17=349(LC 64), 15=1419(LC 60), 21=4266(LC 64), 21=3338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-26=-1261/1300, 1-2=-1078/1097, 2-3=-697/726, 3-4=-320/345, 4-5=-524/548, 5-6=-796/807, 6-7=-1050/753, 7-8=-1056/761, 8-9=-809/835, 9-10=-565/591, 10-11=-257/289, 11-12=-718/700, 12-13=-1078/1103, 13-14=-1232/1270
BOT CHORD	25-26=-660/663, 24-25=-580/511, 23-24=-595/558, 22-23=-1102/1065, 21-22=-1448/1411, 20-21=-1448/1411, 19-20=-1331/1294, 18-19=-1331/1294, 17-18=-1022/985, 16-17=-515/478, 15-16=-636/548, 14-15=-515/512
WEBS	6-21=-1704/1428, 6-20=-2121/2527, 8-20=-2148/2556, 8-19=-1692/1416, 1-25=-1771/1738, 13-15=-1688/1657

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 21, 21 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 23, 17, 16 except (jt=lb) 26=1310, 14=1277, 19=1180, 22=1125, 25=1268, 18=1284, 15=1284, 21=1198.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164828
PRYOR-B1RA	G6	GABLE	1	1	Job Reference (optional)

NOTES-

10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-6-2, 14-7-10 to 24-3-8 for 253.5 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 21-26=-20, 19-21=-786(F=-766), 14-19=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G7	GABLE	1	1	I51164829
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:04 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-2?KGlQxxcC3mxUtkpkBZiGCGqy4lLr_N5s1ltKzU39v

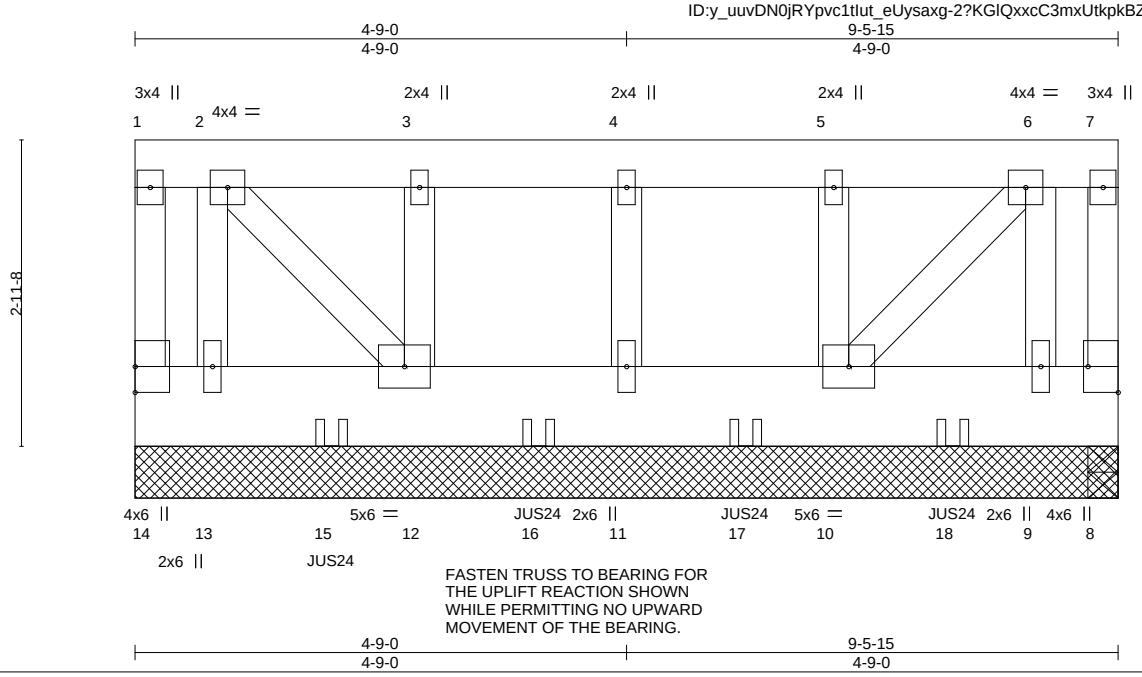

Plate Offsets (X,Y)-- [8:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 85 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-5-15.
(lb) - Max Horz 14=71(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 14=-112(LC 33), 8=-130(LC 34), 8=-127(LC 1), 12=-163(LC 42), 13=-111(LC 39), 10=-160(LC 39), 9=-114(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 14, 8 except 11=559(LC 1), 12=631(LC 1), 13=383(LC 32), 10=622(LC 32), 9=460(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-12=-233/251

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 14=112, 8=130, 12=163, 13=111, 10=160, 9=114.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-5-15 for 21.1 plf.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-13 from the left end to 7-10-13 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164829
PRYOR-B1RA	G7	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 15=-391(B) 16=-391(B) 17=-391(B) 18=-391(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G8	GABLE	1	1	I51164830
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:06 2022 Page 1
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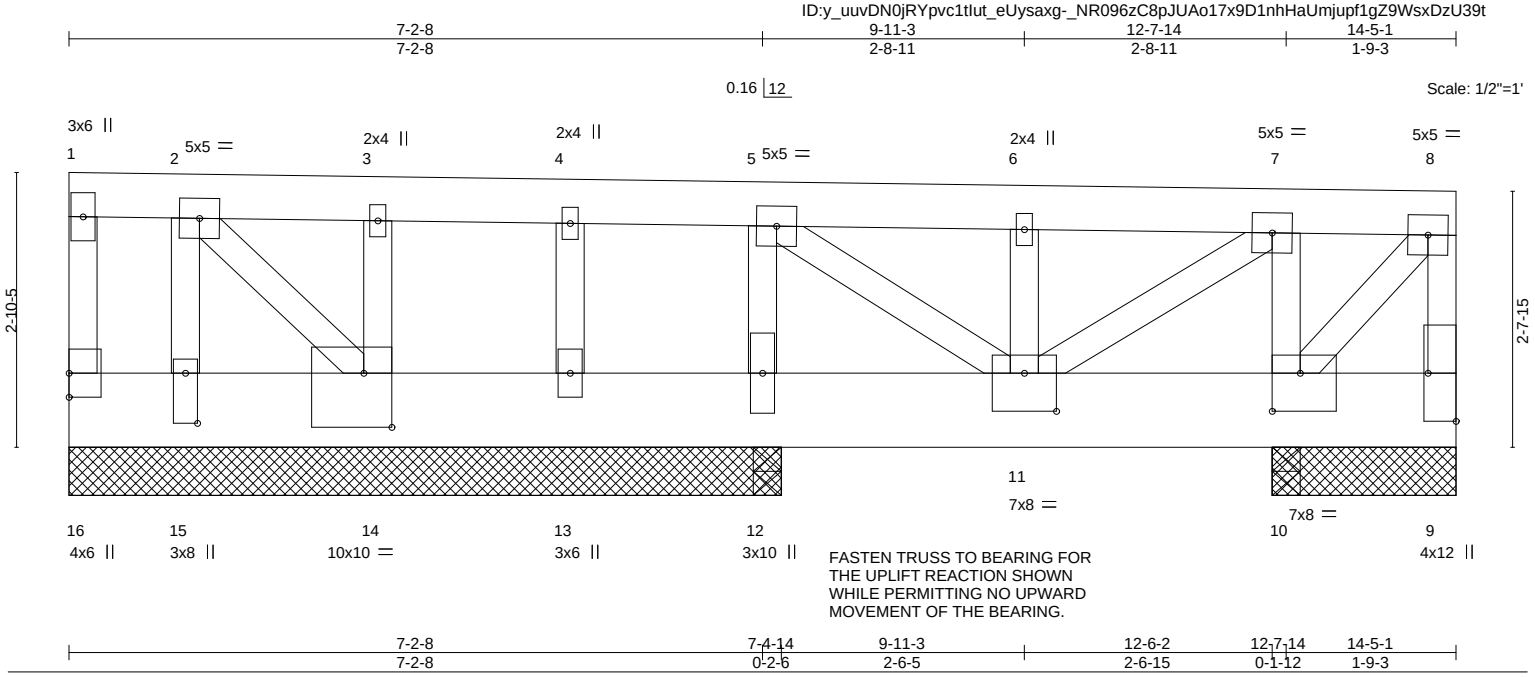

Plate Offsets (X,Y)-- [9:Edge,0-3-8], [10:0-3-8,0-4-12], [11:0-4-0,0-4-12], [14:0-3-8,0-6-12], [15:0-6-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.00	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 124 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-4-14 except (jt=length) 9=1-10-15, 10=1-10-15, 10=1-10-15, 12=0-4-3 (input: 0-3-8), 12=0-4-3 (input: 0-3-8).
(lb) - Max Horz 16=-190(LC 48)
Max Uplift All uplift 100 lb or less at joint(s) 16 except 9=-1161(LC 69), 10=-209(LC 55), 13=-717(LC 68), 14=-913(LC 47), 15=-845(LC 48), 12=-689(LC 54)
Max Grav All reactions 250 lb or less at joint(s) 16, 13 except 9=588(LC 54), 10=3336(LC 68), 10=3120(LC 1), 14=1208(LC 48), 15=807(LC 47), 12=3573(LC 69), 12=3001(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-252/255, 2-3=-674/697, 3-4=-235/257, 4-5=-623/641, 5-6=-950/673, 6-7=-1489/1270, 7-8=-494/506, 8-9=-623/673
BOT CHORD	15-16=-524/540, 14-15=-1147/1163, 13-14=-949/895, 12-13=-1572/1517, 11-12=-1572/1517, 9-10=-529/530
WEBS	5-12=-1313/1168, 5-11=-1602/1897, 7-11=-1532/1836, 7-10=-1333/1178, 2-15=-794/825, 8-10=-825/795, 2-14=-1416/1385

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) WARNING: Required bearing size at joint(s) 12, 12 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 9=1161, 10=209, 13=717, 14=913, 15=845, 12=689.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-2-8, 12-4-6 to 14-5-1 for 311.3 plf.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164830
PRYOR-B1RA	G8	GABLE	1	1	Job Reference (optional)

NOTES-

12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 12-16=-20, 10-12=-767(F=-747), 9-10=-20

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G9	GABLE	1	1	I51164831
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:08 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-wmZmao_SgQZBP5BV2aGVs6MvxaRfHbdz0T?z05zU39r

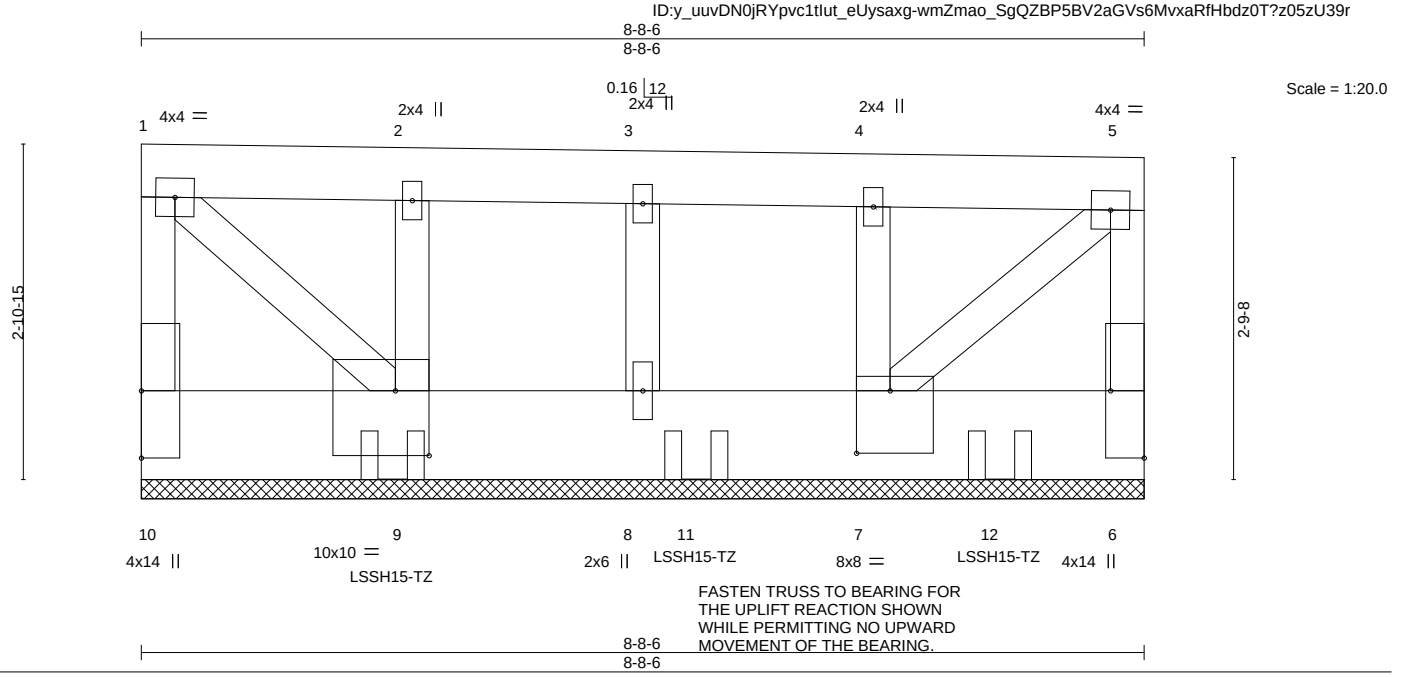

Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-8,0-6-8], [9:0-3-8,0-6-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 74 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-8-6.
(lb) - Max Horz 10=-70(LC 49)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-842(LC 44), 6=-884(LC 47), 9=-883(LC 47), 7=-865(LC 54)
Max Grav All reactions 250 lb or less at joint(s) except 10=871(LC 51), 6=952(LC 64), 8=435(LC 22), 9=1117(LC 38), 7=1110(LC 65)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-854/852, 1-2=-776/779, 2-3=-380/377, 3-4=-434/429, 4-5=-833/832, 5-6=-929/952
BOT CHORD	9-10=-537/557, 8-9=-419/441, 7-8=-432/453, 6-7=-441/441
WEBS	1-9=-1247/1254, 5-7=-1246/1260

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=842, 6=884, 9=883, 7=865.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-8-6 for 200.0 plf.
12) Use USP LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent spaced at 2-7-10 oc max. starting at 2-2-3 from the left end to 4-9-12 to connect truss(es) to back face of bottom chord.
13) Use USP LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent at 7-5-6 from the left end to connect truss(es) to back face of bottom chord, skewed 40.6 deg.to the left, sloping 0.0 deg. down.

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G9	GABLE	1	1	I51164831 Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 9=-349(B) 11=-349(B) 12=-299(B)

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G10	GABLE	1	1	I51164832
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:41 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-DZRZwZfW1791gydJzPHAGQlH0hAKTlV_pmy1aAzU3AG

6-4-6 | 26-9-4
6-4-6 | 20-4-14

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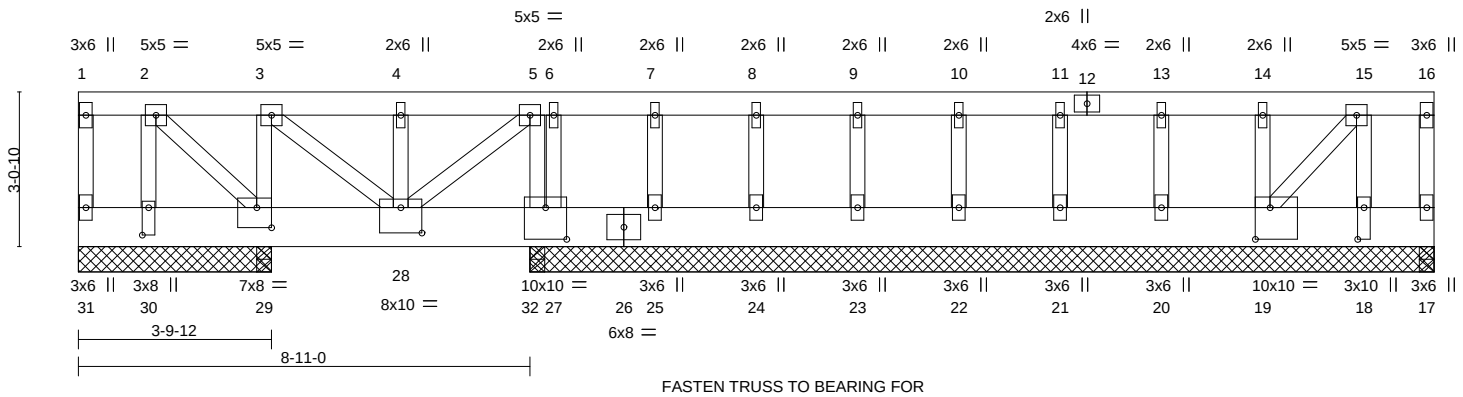

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

3-6-4 | 6-4-6 | 8-11-0 | 26-9-4
3-6-4 | 2-10-2 | 2-6-10 | 17-10-4

Plate Offsets (X,Y)-- [18:0-7-8,0-1-8], [19:0-3-8,0-7-8], [27:0-5-0,0-7-8], [28:0-5-0,0-6-0], [29:0-3-8,0-4-12], [30:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	28	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	28	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.01	21	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 225 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-10-4 except (jt=length) 31=3-9-12, 30=3-9-12, 29=3-9-12, 29=3-9-12.
(lb) - Max Horz 31=-124(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 24, 23, 22, 21, 20 except 31=-129(LC 39), 17=-255(LC 42), 25=-878(LC 64), 30=-1375(LC 63), 19=-1851(LC 39), 18=-1628(LC 42), 29=-493(LC 41), 27=-1260(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 17, 25, 23, 22, 21, 20 except 31=363(LC 64), 17=267(LC 59), 24=412(LC 1), 30=775(LC 42), 19=1981(LC 60), 18=1667(LC 59), 29=3702(LC 64), 29=3310(LC 1), 27=4007(LC 63), 27=3038(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-260/266, 2-3=-652/687, 3-4=-2084/1681, 4-5=-1544/1088, 5-6=-1867/1899, 6-7=-1802/1841, 7-8=-1402/1401, 8-9=-1002/1041, 9-10=-602/641, 10-11=-311/350, 11-13=-711/750, 13-14=-1105/1150, 14-15=-1511/1550
BOT CHORD	30-31=-421/426, 29-30=-984/990, 27-28=-2576/2581, 25-27=-2642/2594, 24-25=-2147/2074, 23-24=-1653/1606, 22-23=-1109/1111, 21-22=-665/617, 20-21=-491/444, 19-20=-986/938, 18-19=-782/779, 17-18=-288/285
WEBS	6-27=-541/411, 2-30=-849/899, 14-19=-260/281, 15-18=-1699/1744, 3-29=-1983/1566, 5-27=-1629/1354, 3-28=-2046/2636, 5-28=-2362/2907, 2-29=-1386/1344, 15-19=-2709/2660

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 23, 22, 21, 20 except (jt=lb) 31=129, 17=255, 25=878, 30=1375, 19=1851, 18=1628, 29=493, 27=1260.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164832
PRYOR-B1RA	G10	GABLE	1	1	Job Reference (optional)

NOTES-

9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 3-9-12, 8-11-0 to 26-9-4 for 247.1 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 29-31=-20, 29-32=-830(F=-810), 17-32=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G11	GABLE	1	1	I51164833
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:44 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-d86iYaiPK2XbXPMueYqtu2NltuFmggSRVkBhAUzU3AD

15-10-4
15-10-4

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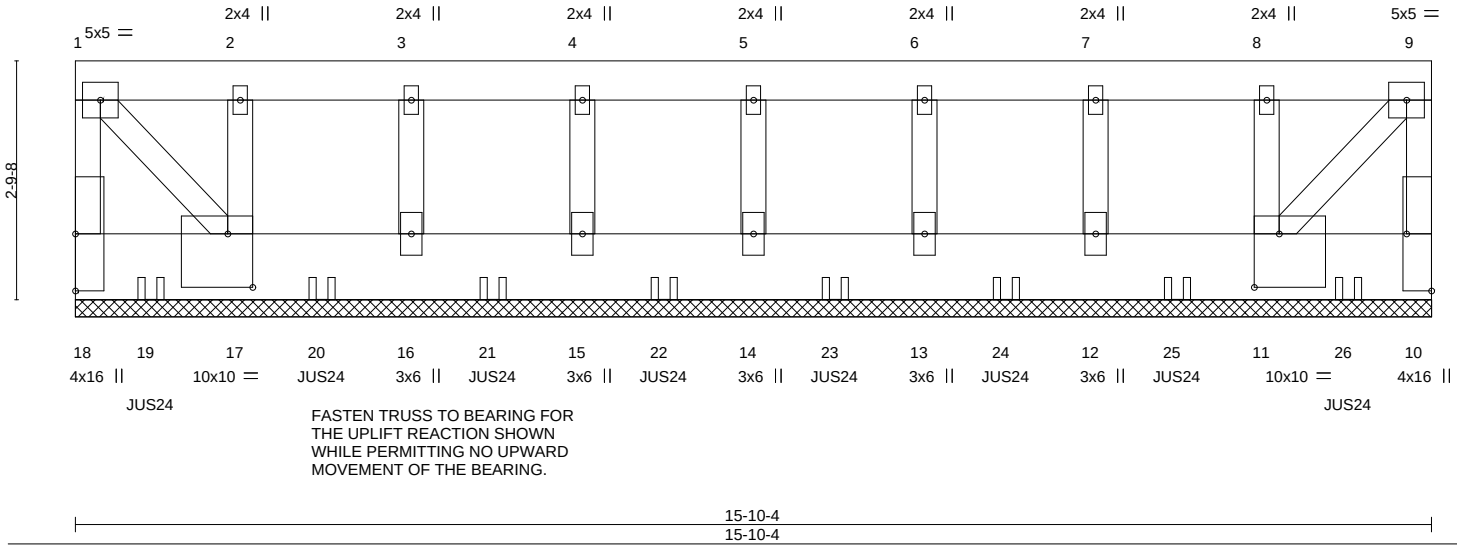

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

15-10-4
15-10-4

Plate Offsets (X,Y)-- [10:Edge,0-3-8], [11:0-3-8,0-7-8], [17:0-3-8,0-7-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 127 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-10-4.
(lb) - Max Horz 18=-66(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 13, 12 except 18=-1903(LC 39), 10=-1894(LC 42), 17=-1891(LC 42), 11=-1883(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1959(LC 60), 10=1952(LC 59), 14=444(LC 1), 15=447(LC 1), 16=439(LC 1), 17=2091(LC 59), 13=447(LC 1), 12=438(LC 1), 11=2092(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1902/1905, 1-2=-1530/1530, 2-3=-1210/1204, 3-4=-806/810, 4-5=-410/410, 5-6=-410/410, 6-7=-806/810, 7-8=-1210/1204, 8-9=-1530/1530, 9-10=-1929/1941
BOT CHORD	17-18=-415/456, 16-17=-1243/1254, 15-16=-843/854, 14-15=-443/454, 13-14=-443/454, 12-13=-843/854, 11-12=-1243/1254, 10-11=-382/388
WEBS	1-17=-2531/2538, 9-11=-2486/2493

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 13, 12 except (jt=lb) 18=1903, 10=1894, 17=1891, 11=1883.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 15-10-4 for 200.0 plf.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-10 from the left end to 14-10-10 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164833
PRYOR-B1RA	G11	GABLE	1	1	Job Reference (optional)

NOTES-

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-268(F) 20=-265(F) 21=-265(F) 22=-265(F) 23=-265(F) 24=-265(F) 25=-265(F) 26=-267(F)

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G12	GABLE	1	1	I51164834
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-aXESzGjfsgoJmjVHmysLzTS8QixY8e6ky2goFNzU3AB

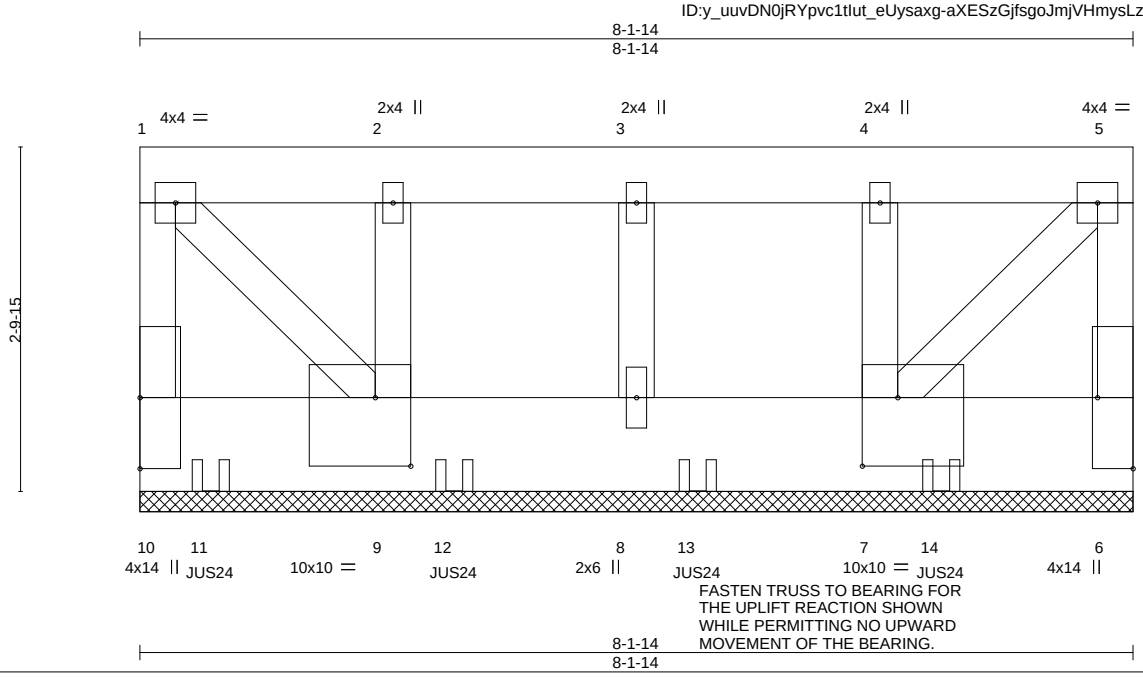

Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-8,0-6-12], [9:0-3-8,0-6-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 70 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-1-14.
(lb) - Max Horz 10=-67(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-922(LC 39), 6=-910(LC 42), 9=-933(LC 42), 7=-932(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 10=1039(LC 60), 6=946(LC 59), 8=503(LC 1), 9=1188(LC 31), 7=1194(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-916/919, 1-2=-760/758, 2-3=-408/402, 3-4=-408/402, 4-5=-760/758, 5-6=-957/981
BOT CHORD	9-10=-455/506, 8-9=-409/429, 7-8=-446/469, 6-7=-387/388
WEBS	1-9=-1273/1286, 5-7=-1228/1241

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=922, 6=910, 9=933, 7=932.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-1-14 for 200.0 plf.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-0 from the left end to 6-7-0 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G12	GABLE	1	1	I51164834
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 11=-356(F) 12=-350(F) 13=-350(F) 14=-350(F)

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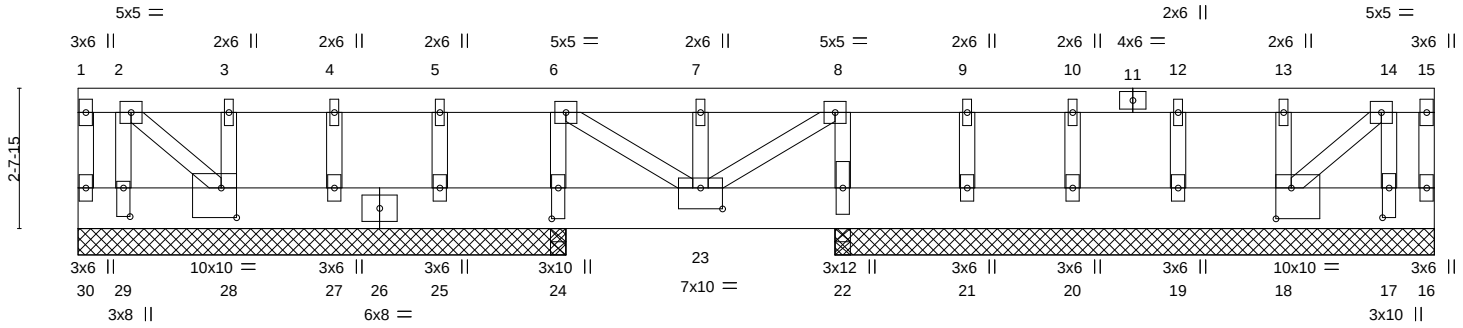
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	G13	GABLE	1	1	I51164835
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:15:48 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-WwMCOylvOH2101fftNvp2uXUHWaqcUT0QM9vJGzU3A9

9-1-4 | 11-9-10 | 14-6-0 | 25-8-10
9-1-4 | 2-8-6 | 2-8-6 | 11-2-10

Scale = 1:43.7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-1-4 | 9-3-0 | 11-9-10 | 14-4-4 | 14-6-0 | 25-8-10
9-1-4 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 11-2-10

Plate Offsets (X,Y)-- [17:0-6-12,0-1-8], [18:0-3-8,0-7-0], [23:0-5-0,0-4-12], [24:0-7-0,0-1-8], [28:0-3-8,0-6-12], [29:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	23	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	23	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-4-6 except (jt=length) 30=9-3-0, 24=9-3-0, 24=9-3-0, 25=9-3-0, 27=9-3-0, 28=9-3-0, 29=9-3-0.
(lb) - Max Horz 30=-78(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 27, 20, 19 except 30=-311(LC 43), 16=-332(LC 46), 24=-1093(LC 39), 22=-1080(LC 42), 25=-653(LC 63), 28=-1077(LC 42), 29=-803(LC 39), 21=-619(LC 64), 18=-1213(LC 39), 17=-901(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 25, 21, 19 except 30=289(LC 42), 16=322(LC 39), 24=3797(LC 64), 24=2963(LC 1), 22=3753(LC 63), 22=2924(LC 1), 27=393(LC 63), 28=1168(LC 59), 29=853(LC 60), 20=387(LC 1), 18=1345(LC 60), 17=944(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1070/1107, 3-4=-641/689, 4-5=-270/307, 5-6=-646/683, 6-7=-1295/957, 7-8=-1058/715, 8-9=-932/966, 9-10=-460/494, 10-12=-440/474, 12-13=-804/849, 13-14=-1240/1274, 15-16=-253/262
BOT CHORD	28-29=-733/710, 27-28=-567/519, 25-27=-625/577, 24-25=-1194/1145, 23-24=-1194/1145, 22-23=-1545/1500, 21-22=-1545/1500, 20-21=-948/903, 19-20=-442/396, 18-19=-721/676, 17-18=-667/663
WEBS	6-24=-1662/1355, 6-23=-2012/2482, 8-23=-2067/2533, 8-22=-1692/1388, 2-29=-870/904, 14-17=-994/1029, 2-28=-1769/1724, 14-18=-1926/1885

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 20, 19 except (jt=lb) 30=311, 16=332, 24=1093, 22=1080, 25=653, 28=1077, 29=803, 21=619, 18=1213, 17=901.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164835
PRYOR-B1RA	G13	GABLE	1	1	Job Reference (optional)

NOTES-

9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-1-4, 14-6-0 to 25-8-10 for 253.1 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-15=-70, 24-30=-20, 22-24=-781(F=-761), 16-22=-20

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J1	Roof Special	1	1	I51164836
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:09 2022 Page 1
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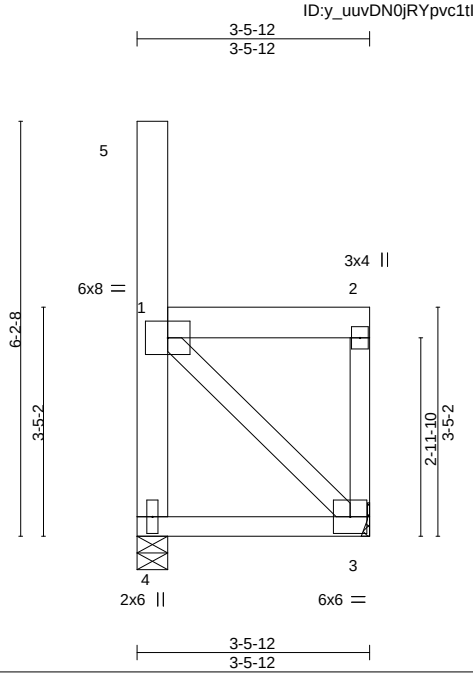

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-244(LC 13)
Max Uplift 4=-274(LC 11), 3=-274(LC 12)
Max Grav 4=367(LC 25), 3=336(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-336/876
BOT CHORD 3-4=-430/670
WEBS 1-3=-850/546

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=274, 3=274.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J1GE	Roof Special Supported Gable	1	1	I51164837
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:17 2022 Page 1
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3-5-12
3-5-12

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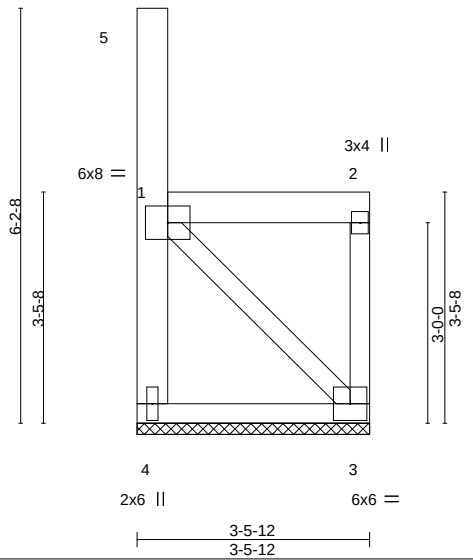

3-5-12
3-5-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS. (size) 4=3-5-12, 3=3-5-12
Max Horz 4=243(LC 14)
Max Uplift 4=-273(LC 11), 3=-273(LC 12)
Max Grav 4=367(LC 25), 3=336(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-320/889
BOT CHORD 3-4=-481/694
WEBS 1-3=-866/619

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=273, 3=273.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 4=-100-to-3=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60
   Trapezoidal Loads (plf)
      Vert: 4=-80-to-3=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-2=-48
      Horz: 1-4=18, 1-5=38, 2-3=5
   Trapezoidal Loads (plf)
      Vert: 4=-80-to-3=-20

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-2=-48
      Horz: 1-4=-5, 1-5=-38, 2-3=-18
   Trapezoidal Loads (plf)
      Vert: 4=-80-to-3=-20

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-2=-48
      Horz: 1-4=14, 1-5=-25, 2-3=3
   Trapezoidal Loads (plf)
      Vert: 4=-80-to-3=-20

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-2=-48
      Horz: 1-4=-3, 1-5=-25, 2-3=-14
   Trapezoidal Loads (plf)
      Vert: 4=-80-to-3=-20

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70, 4=-100-to-3=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J2	Roof Special	1	1	I51164838
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:18 2022 Page 1
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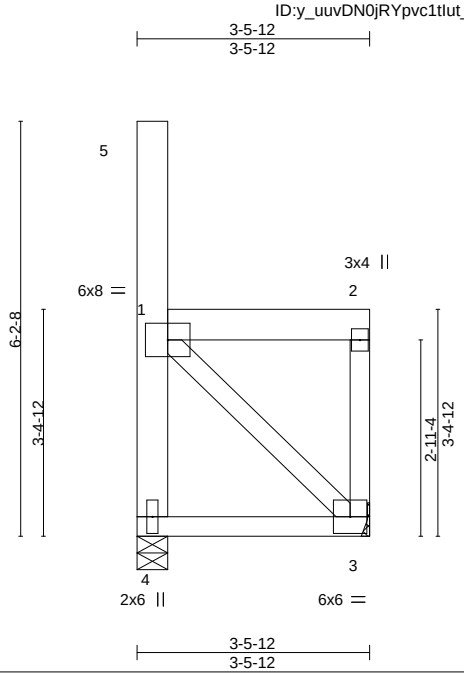

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-244(LC 11)
Max Uplift 4=-275(LC 11), 3=-275(LC 12)
Max Grav 4=368(LC 25), 3=337(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-337/878
BOT CHORD 3-4=-433/676
WEBS 1-3=-855/547

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=275, 3=275.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J3	Roof Special	1	1	I51164839
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:31 2022 Page 1
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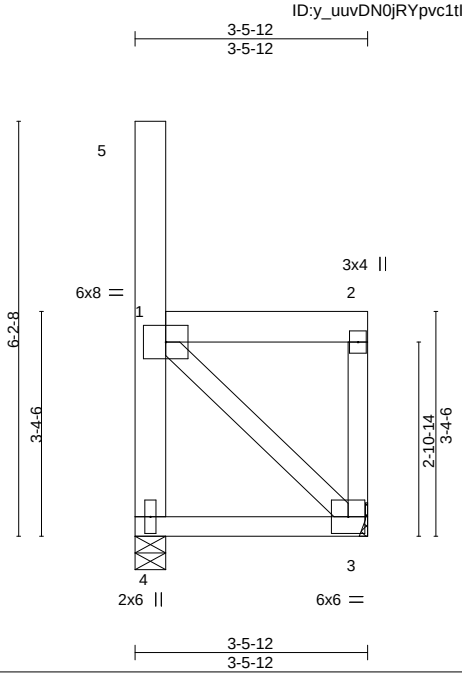

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-3 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=245(LC 12)
Max Uplift 4=-275(LC 11), 3=-275(LC 12)
Max Grav 4=368(LC 25), 3=337(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-337/881
BOT CHORD 3-4=-436/682
WEBS 1-3=-860/549

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=275, 3=275.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J4	Roof Special	1	1	I51164840
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:41 2022 Page 1
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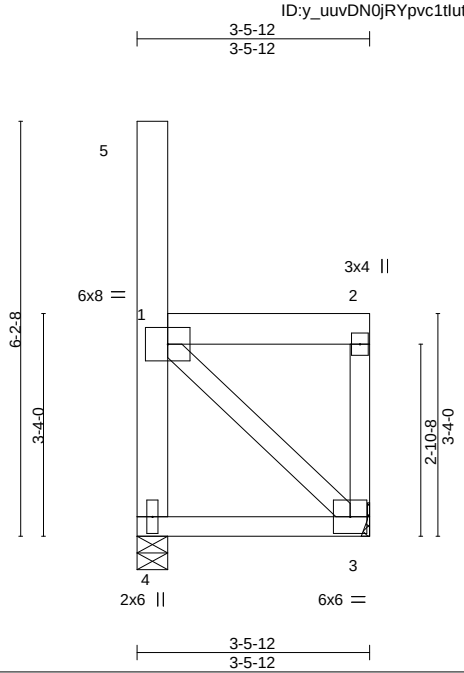

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-246(LC 13)
Max Uplift 4=-276(LC 11), 3=-276(LC 12)
Max Grav 4=369(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-338/883
BOT CHORD 3-4=-438/688
WEBS 1-3=-865/551

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=276, 3=276.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J5	Roof Special	1	1	I51164841
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:50 2022 Page 1
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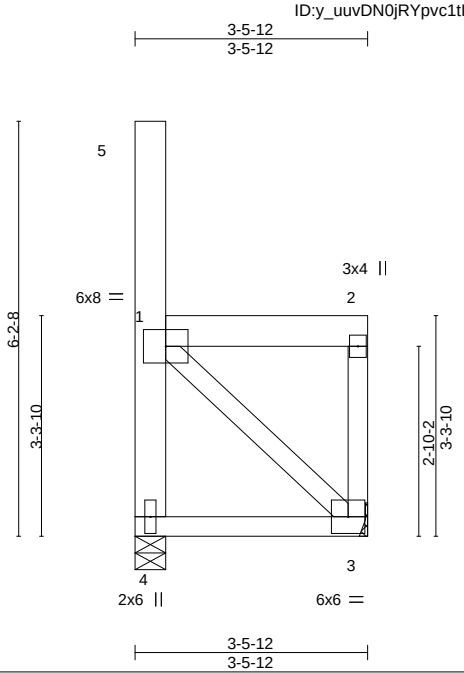

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-246(LC 13)
Max Uplift 4=-276(LC 11), 3=-276(LC 12)
Max Grav 4=369(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-338/885
BOT CHORD 3-4=-441/694
WEBS 1-3=-870/553

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=276, 3=276.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J6	Roof Special	1	1	I51164842
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:59 2022 Page 1
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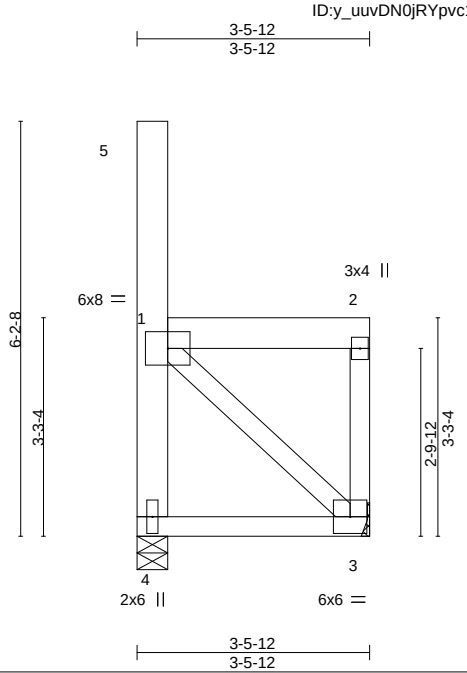

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-3 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-247(LC 11)
Max Uplift 4=-277(LC 11), 3=-277(LC 12)
Max Grav 4=370(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-339/887
BOT CHORD 3-4=-444/701
WEBS 1-3=-875/554

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=277, 3=277.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J7	Roof Special	1	1	I51164843
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:08 2022 Page 1
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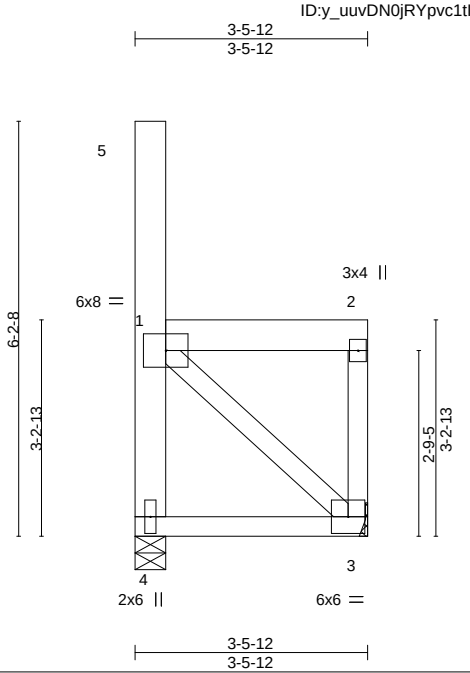

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-247(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=370(LC 25), 3=339(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-339/889
BOT CHORD 3-4=-447/707
WEBS 1-3=-881/556

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J8	Roof Special	1	1	I51164844
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:18 2022 Page 1
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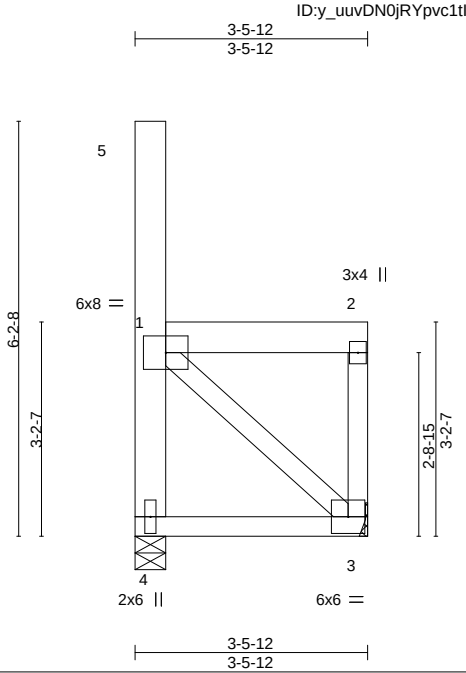

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-248(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=370(LC 25), 3=339(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-339/891
BOT CHORD 3-4=-450/714
WEBS 1-3=-886/558

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J9	Roof Special	1	1	I51164845
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:20 2022 Page 1
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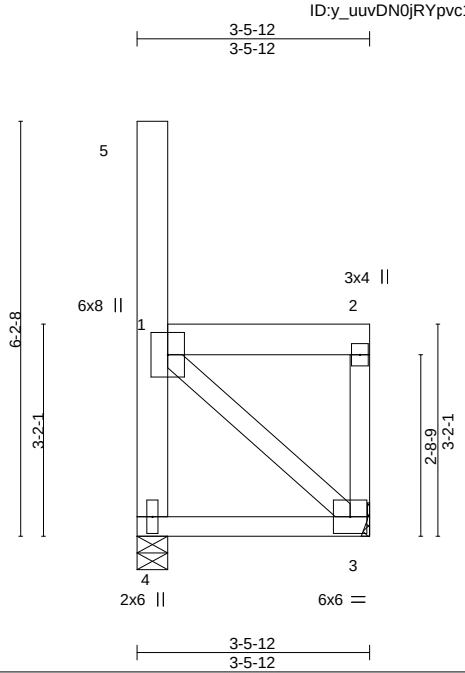

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-249(LC 13)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=371(LC 25), 3=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-340/893
BOT CHORD 3-4=-454/721
WEBS 1-3=-892/560

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J10	Roof Special	1	1	I51164846
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:10 2022 Page 1
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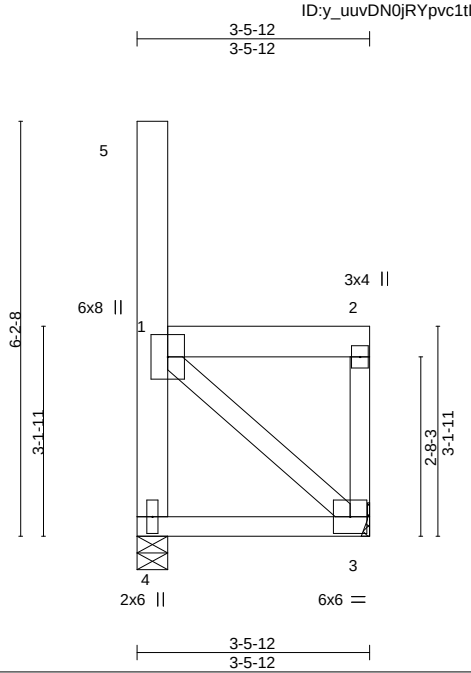

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=249(LC 12)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=371(LC 25), 3=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-340/895
BOT CHORD 3-4=-457/728
WEBS 1-3=-897/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J11	Roof Special	1	1	I51164847
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:11 2022 Page 1
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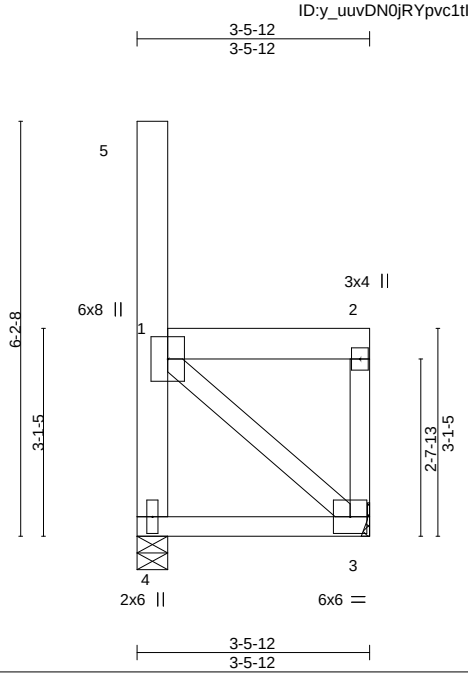

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-250(LC 11)
Max Uplift 4=-280(LC 11), 3=-280(LC 12)
Max Grav 4=372(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-341/897
BOT CHORD 3-4=-460/735
WEBS 1-3=-903/565

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=280, 3=280.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J12	Roof Special	1	1	I51164848
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:12 2022 Page 1
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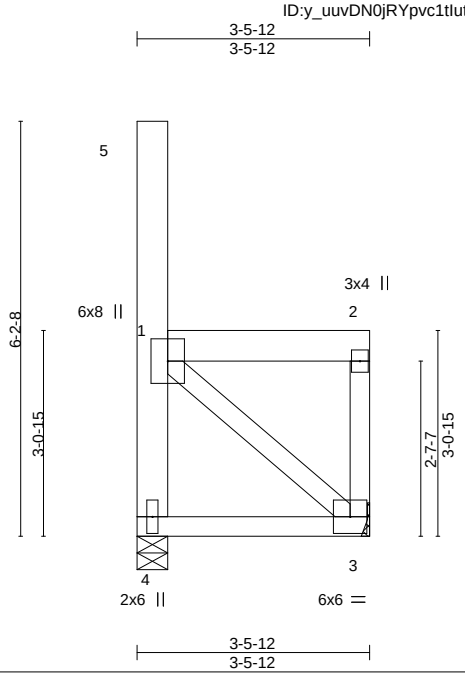

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-251(LC 11)
Max Uplift 4=-280(LC 11), 3=-280(LC 12)
Max Grav 4=372(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-341/899
BOT CHORD 3-4=-464/742
WEBS 1-3=-909/567

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=280, 3=280.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J13	Roof Special	1	1	I51164849
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:13 2022 Page 1
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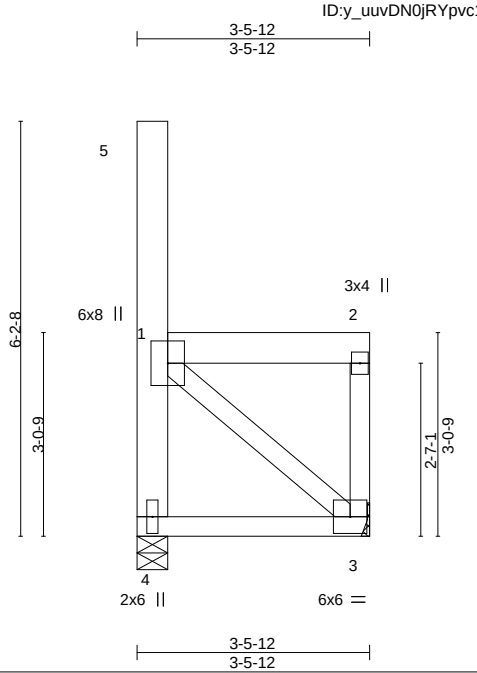

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-251(LC 11)
Max Uplift 4=-281(LC 11), 3=-281(LC 12)
Max Grav 4=372(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-341/901
BOT CHORD 3-4=-468/750
WEBS 1-3=-915/570

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=281, 3=281.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J14	Roof Special	1	1	I51164850
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:13 2022 Page 1
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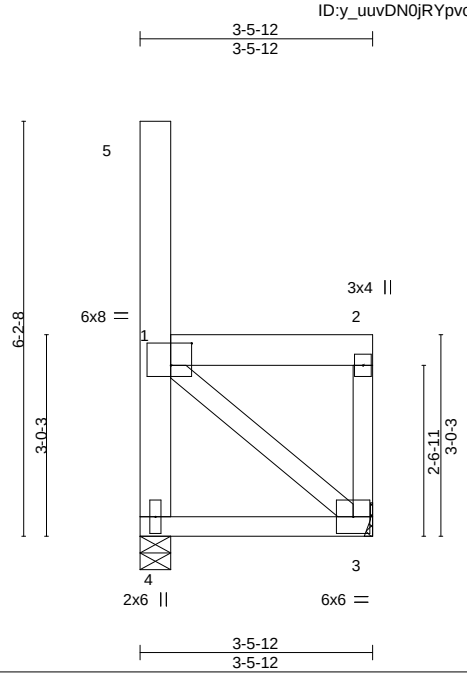

Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-252(LC 11)
Max Uplift 4=-282(LC 11), 3=-282(LC 12)
Max Grav 4=373(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-342/903
BOT CHORD 3-4=-471/757
WEBS 1-3=-922/572

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=282, 3=282.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J15	Roof Special	1	1	I51164851
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:14 2022 Page 1
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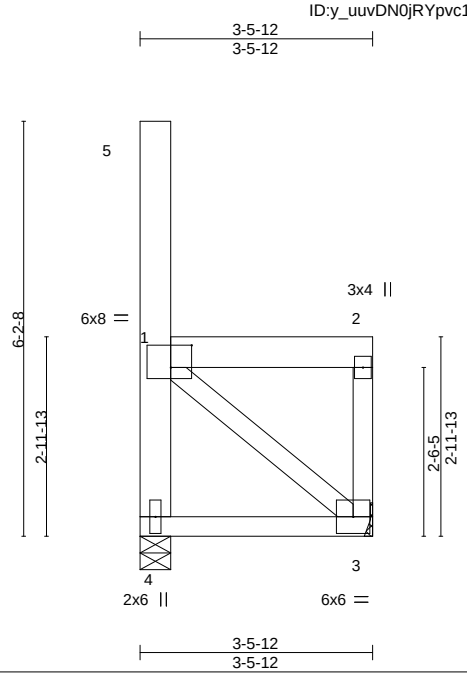

Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-6-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-252(LC 11)
Max Uplift 4=-282(LC 11), 3=-282(LC 12)
Max Grav 4=373(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-342/905
BOT CHORD	3-4=-475/765
WEBS	1-3=-928/575

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=282, 3=282.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J16	Roof Special	1	1	I51164852
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:15 2022 Page 1
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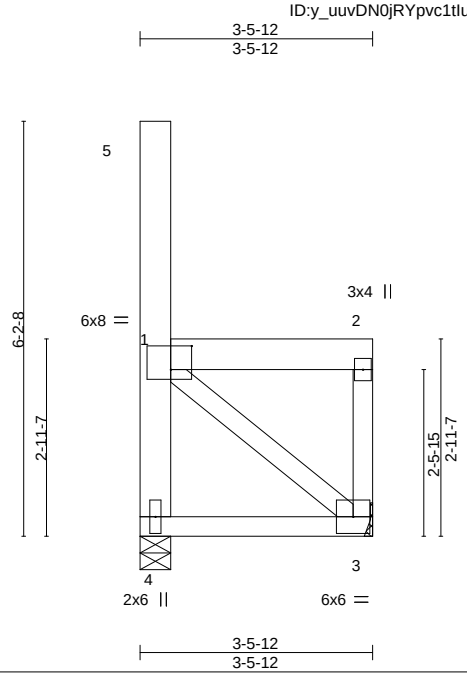

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-253(LC 11)
Max Uplift 4=-283(LC 11), 3=-283(LC 12)
Max Grav 4=994(LC 25), 3=653(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-963/907, 2-3=-366/198
BOT CHORD 3-4=-479/773
WEBS 1-3=-935/578

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=283, 3=283.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-720-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-707-to-2=-47

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-707-to-2=-47

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-707-to-2=-47

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-707-to-2=-47

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J18	Roof Special	1	1	I51164853
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:15 2022 Page 1
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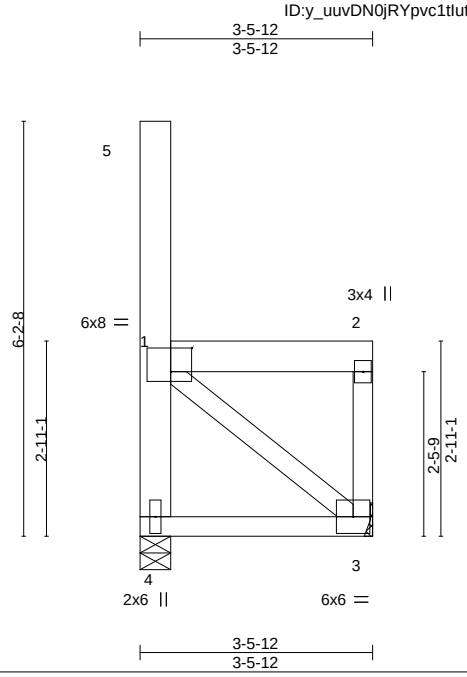

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=254(LC 12)
Max Uplift 4=-283(LC 11), 3=-283(LC 12)
Max Grav 4=374(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-343/909
BOT CHORD 3-4=-483/781
WEBS 1-3=-942/581

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=283, 3=283.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J19	Roof Special	1	1	I51164854
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:16 2022 Page 1
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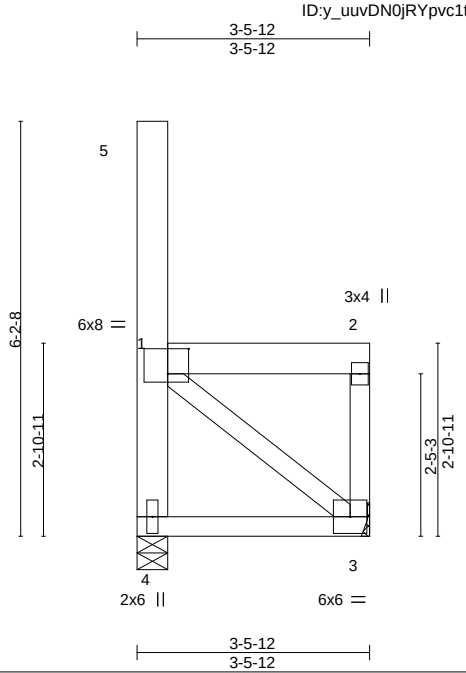

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=254(LC 12)
Max Uplift 4=-284(LC 11), 3=-284(LC 12)
Max Grav 4=374(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-345/911
BOT CHORD 3-4=-487/790
WEBS 1-3=-949/584

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=284, 3=284.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J19GE	Roof Special Supported Gable	1	1	I51164855
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:17 2022 Page 1
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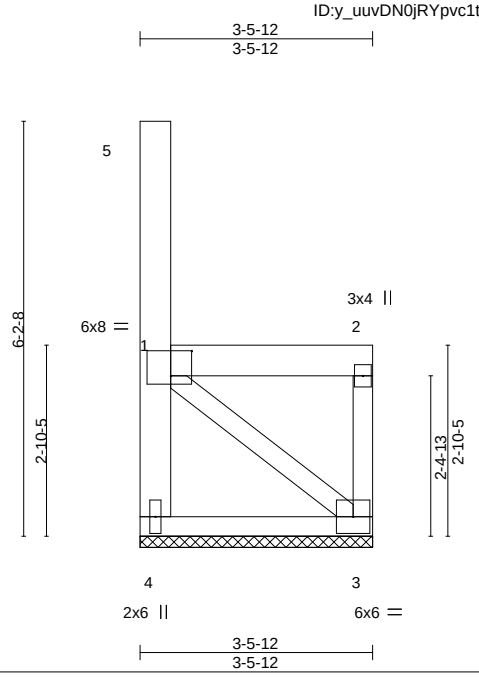

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-11-4 oc bracing.

REACTIONS. (size) 4=3-5-12, 3=3-5-12
Max Horz 4=-255(LC 11)
Max Uplift 4=-284(LC 11), 3=-284(LC 12)
Max Grav 4=375(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-388/922
BOT CHORD	3-4=-553/822
WEBS	1-3=-971/666

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=284, 3=284.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J20	Roof Special	1	1	I51164856
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:19 2022 Page 1
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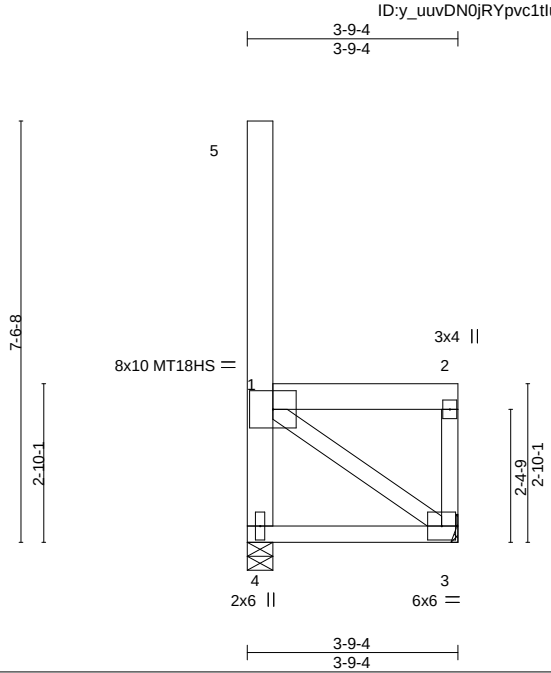

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-323(LC 13)
Max Uplift 4=-396(LC 11), 3=-396(LC 12)
Max Grav 4=474(LC 25), 3=445(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-522/1239
BOT CHORD 3-4=-709/1207
WEBS 1-3=-1427/835

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=396, 3=396.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J21	Roof Special	1	1	I51164857
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:20 2022 Page 1
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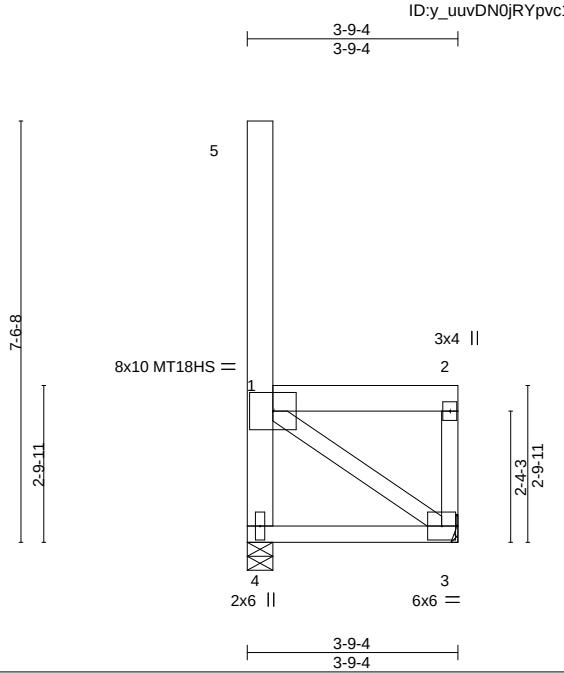

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-324(LC 11)
Max Uplift 4=-396(LC 11), 3=-396(LC 12)
Max Grav 4=474(LC 25), 3=445(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-525/1240
BOT CHORD 3-4=-716/1221
WEBS 1-3=-1439/841

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=396, 3=396.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J22	Roof Special	1	1	I51164858
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:21 2022 Page 1
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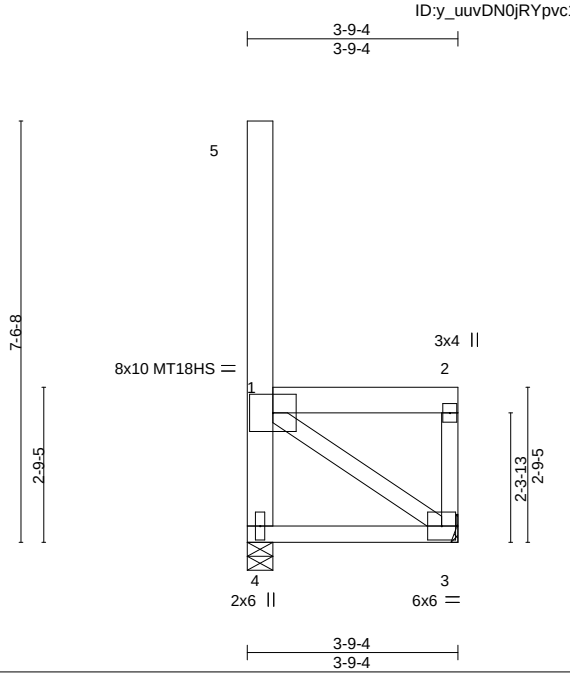

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=325(LC 12)
Max Uplift 4=-396(LC 11), 3=-396(LC 12)
Max Grav 4=474(LC 25), 3=446(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-528/1242
BOT CHORD 3-4=-724/1236
WEBS 1-3=-1452/847

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=396, 3=396.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J23	Roof Special	1	1	I51164859
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:22 2022 Page 1
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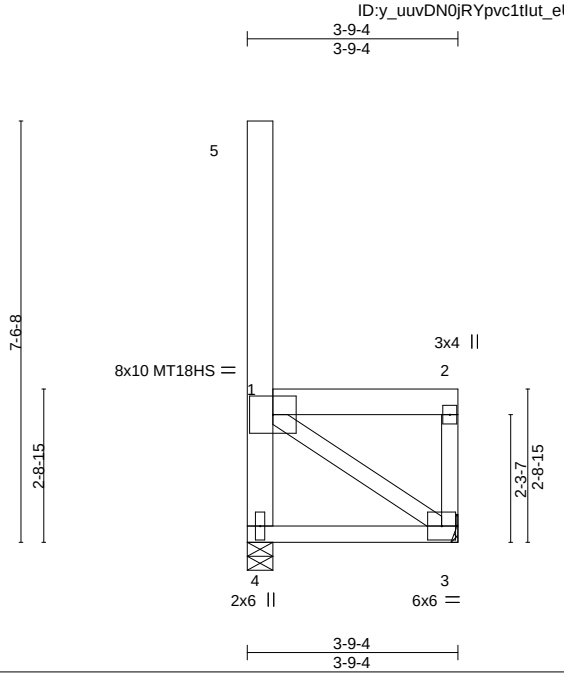

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=325(LC 12)
Max Uplift 4=-397(LC 11), 3=-397(LC 12)
Max Grav 4=475(LC 25), 3=446(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-531/1244
BOT CHORD 3-4=-732/1251
WEBS 1-3=-1465/854

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=397, 3=397.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J24	Roof Special	1	1	I51164860
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:23 2022 Page 1
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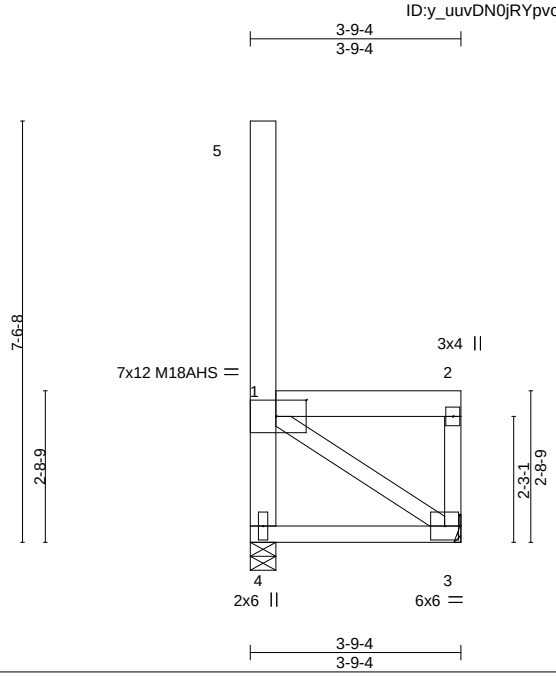

Plate Offsets (X,Y)-- [1:0-6-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.01	3-4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-326(LC 11)
Max Uplift 4=-397(LC 11), 3=-397(LC 12)
Max Grav 4=475(LC 25), 3=446(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-534/1245
BOT CHORD 3-4=-740/1267
WEBS 1-3=-1479/860

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=397, 3=397.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 1-5=38, 2-3=5
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 1-5=-38, 2-3=-18
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 1-5=-25, 2-3=3
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 1-5=-25, 2-3=-14
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J25	Roof Special	1	1	I51164861
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:25 2022 Page 1
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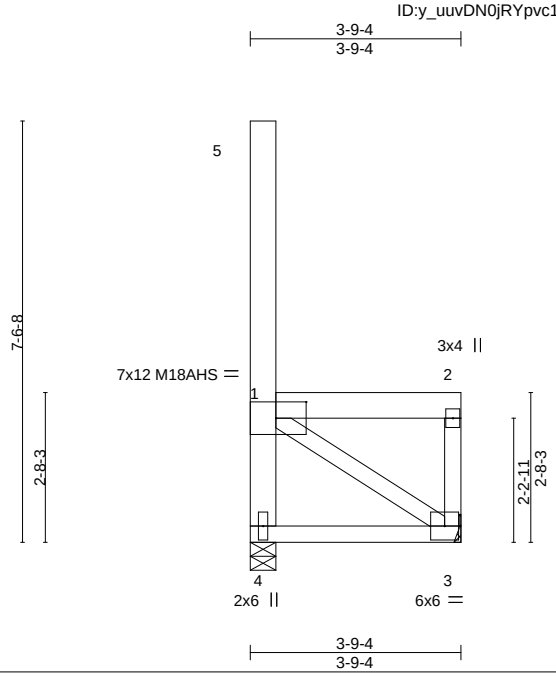

Plate Offsets (X,Y)-- [1:0-6-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.01	3-4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-327(LC 11)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=475(LC 25), 3=447(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-537/1247
BOT CHORD 3-4=-748/1283
WEBS 1-3=-1493/867

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J26	Roof Special	1	1	I51164862
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:26 2022 Page 1
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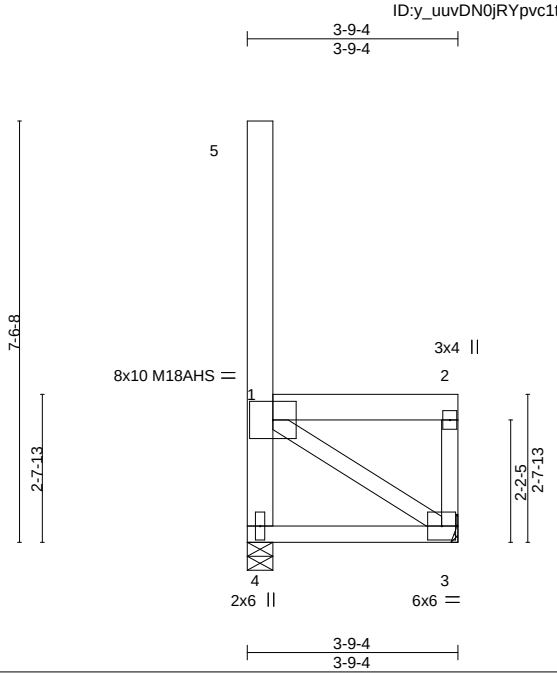

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01	3-4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-327(LC 11)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=476(LC 25), 3=447(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-540/1248
BOT CHORD 3-4=-757/1300
WEBS 1-3=-1507/874

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J26	Roof Special	1	1	I51164862 Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J26GE	Roof Special Supported Gable	1	1	I51164863
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:27 2022 Page 1
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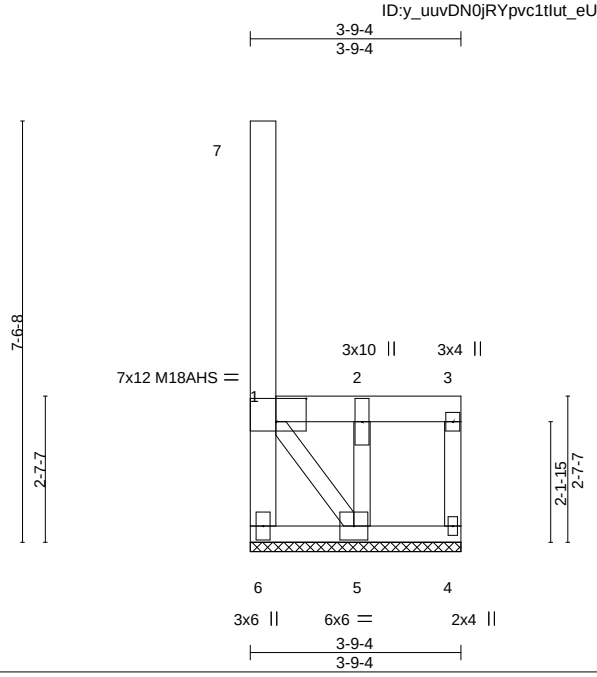

Plate Offsets (X,Y)-- [1:0-6-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP 2400F 2.0E
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-11 oc bracing.

REACTIONS. (size) 6=3-9-4, 4=3-9-4, 5=3-9-4
Max Horz 6=328(LC 12)
Max Uplift 6=-791(LC 11), 4=-44(LC 11), 5=-833(LC 12)
Max Grav 6=811(LC 14), 4=78(LC 25), 5=894(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-1225/2269
BOT CHORD	5-6=-748/1219
WEBS	2-5=-644/646, 1-5=-1873/1158

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=791, 5=833.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164863
PRYOR-B1RA	J26GE	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=18, 1-7=38, 3-4=5
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-5, 1-7=-38, 3-4=-18
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-3, 1-7=-25, 3-4=-14
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J27	Roof Special	1	1	I51164864
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:28 2022 Page 1
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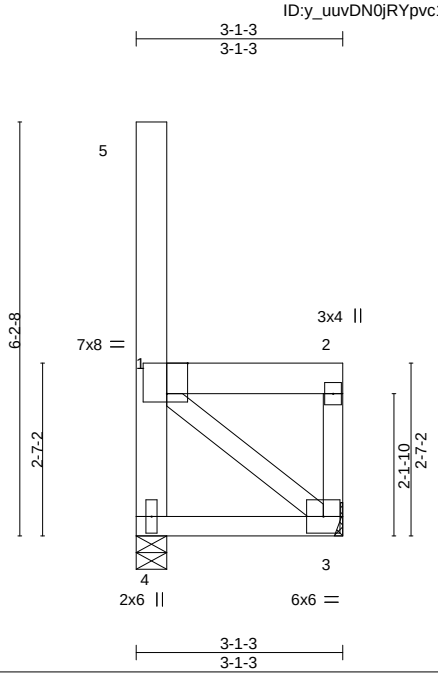

Plate Offsets (X,Y)-- [1:0-3-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-260(LC 13)
Max Uplift 4=-327(LC 11), 3=-327(LC 12)
Max Grav 4=387(LC 25), 3=366(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-411/1017
BOT CHORD 3-4=-518/874
WEBS 1-3=-1067/629

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=327, 3=327.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J28	Roof Special	1	1	I51164865
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:29 2022 Page 1
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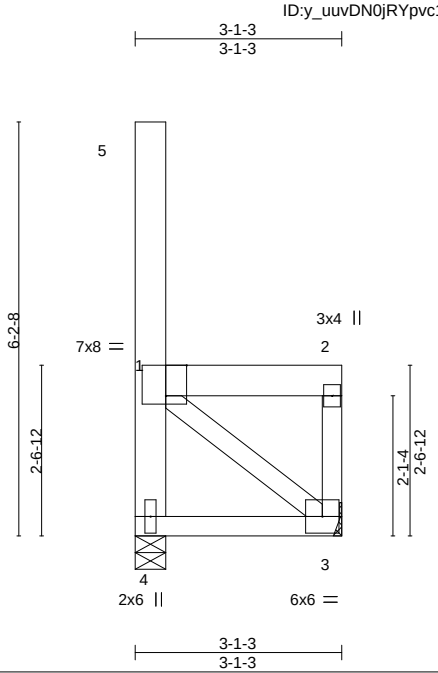

Plate Offsets (X,Y)-- [1:0-3-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-261(LC 11)
Max Uplift 4=-327(LC 11), 3=-327(LC 12)
Max Grav 4=387(LC 25), 3=367(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-414/1019
BOT CHORD 3-4=-523/885
WEBS 1-3=-1076/633

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=327, 3=327.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J29	Roof Special	1	1	I51164866
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:30 2022 Page 1
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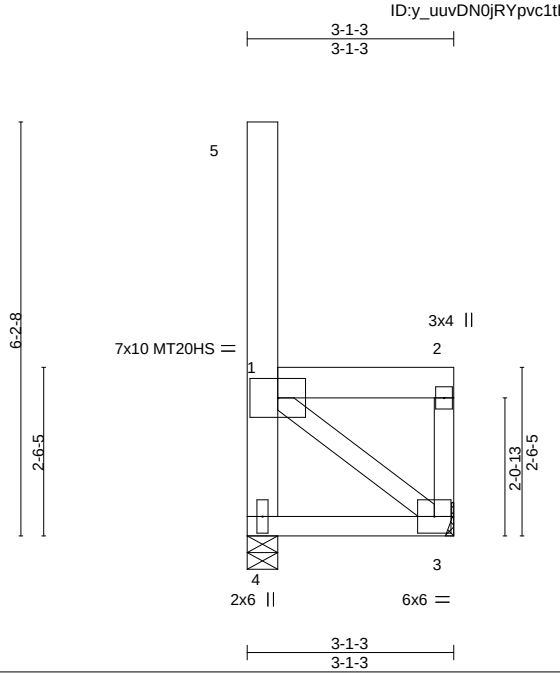

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-261(LC 11)
Max Uplift 4=-328(LC 11), 3=-328(LC 12)
Max Grav 4=388(LC 25), 3=367(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-418/1021
BOT CHORD 3-4=-529/896
WEBS 1-3=-1085/637

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=328, 3=328.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J30	Roof Special	1	1	I51164867
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:32 2022 Page 1
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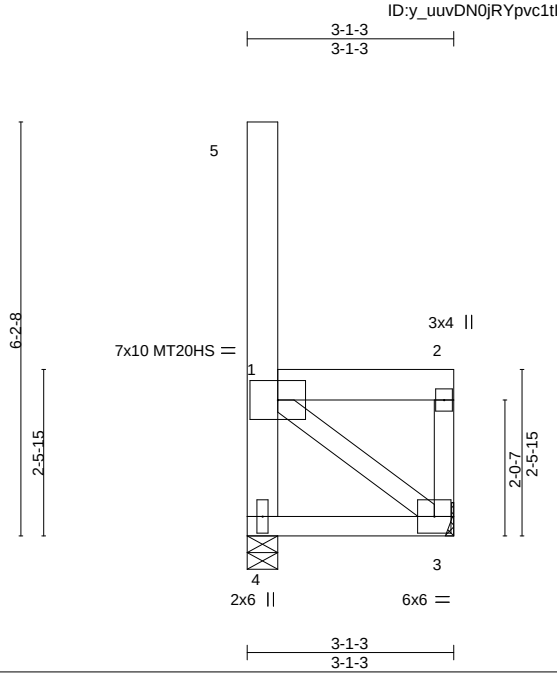

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-262(LC 11)
Max Uplift 4=-328(LC 11), 3=-328(LC 12)
Max Grav 4=388(LC 25), 3=368(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-421/1022
BOT CHORD 3-4=-534/908
WEBS 1-3=-1094/641

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=328, 3=328.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J31	Roof Special	1	1	I51164868
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:33 2022 Page 1
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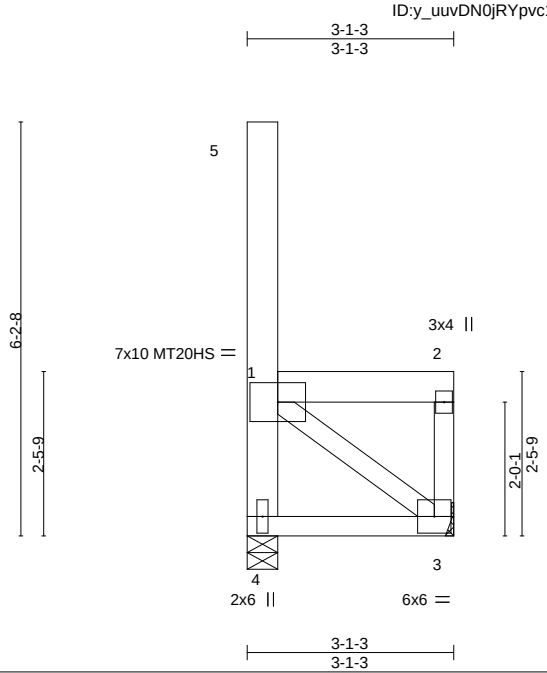

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-263(LC 11)
Max Uplift 4=-329(LC 11), 3=-329(LC 12)
Max Grav 4=388(LC 25), 3=368(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-425/1024
BOT CHORD 3-4=-540/919
WEBS 1-3=-1104/646

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=329, 3=329.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J32	Roof Special	1	1	I51164869
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:35 2022 Page 1
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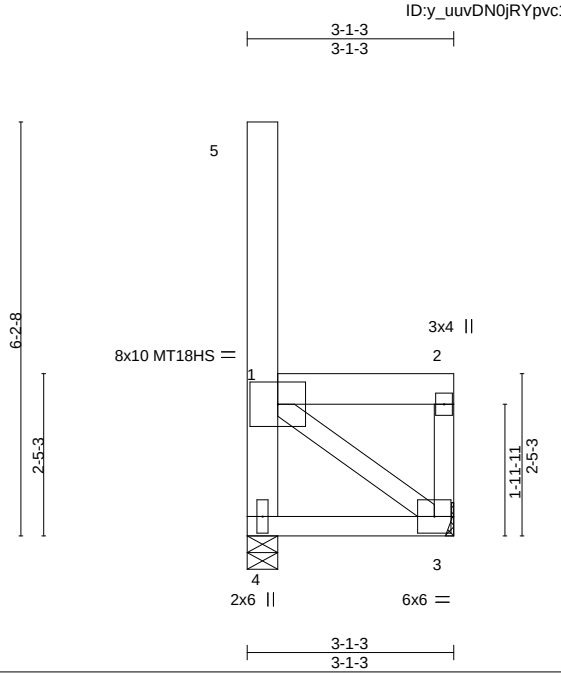

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-263(LC 11)
Max Uplift 4=-329(LC 11), 3=-329(LC 12)
Max Grav 4=389(LC 25), 3=369(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-428/1026
BOT CHORD 3-4=-546/932
WEBS 1-3=-1114/651

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=329, 3=329.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J33	Roof Special	1	1	I51164870
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:35 2022 Page 1
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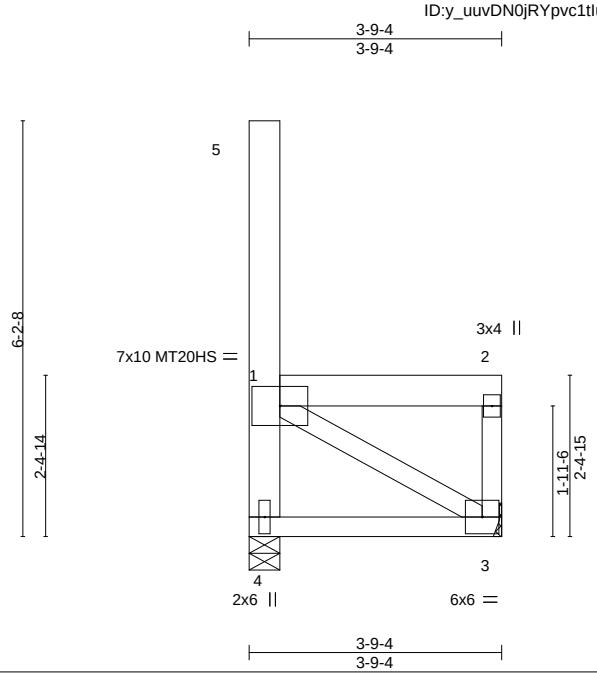

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=264(LC 12)
Max Uplift 4=-267(LC 11), 3=-267(LC 12)
Max Grav 4=377(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-373/883
BOT CHORD 3-4=-583/953
WEBS 1-3=-1062/648

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=267, 3=267.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J33GE	Roof Special Supported Gable	1	1	I51164871
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:36 2022 Page 1
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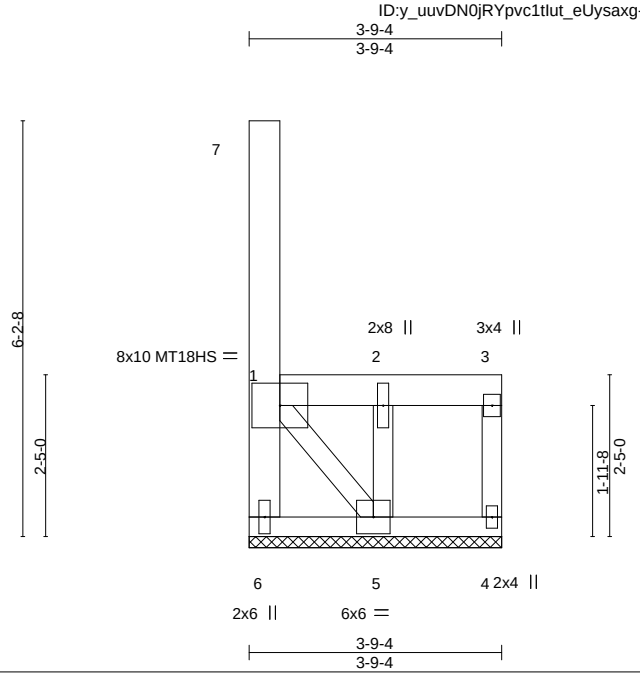

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-11-1 oc bracing.

REACTIONS. (size) 6=3-9-4, 4=3-9-4, 5=3-9-4
Max Horz 6=-264(LC 11)
Max Uplift 6=-525(LC 11), 4=-30(LC 11), 5=-553(LC 12)
Max Grav 6=545(LC 14), 4=67(LC 25), 5=615(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-793/1525
BOT CHORD	5-6=-564/904
WEBS	2-5=-349/482, 1-5=-1298/819

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=525, 5=553.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J33GE	Roof Special Supported Gable	1	1	I51164871
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=18, 1-7=38, 3-4=5
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-5, 1-7=-38, 3-4=-18
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-3, 1-7=-25, 3-4=-14
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J34	Roof Special	1	1	I51164872
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:37 2022 Page 1
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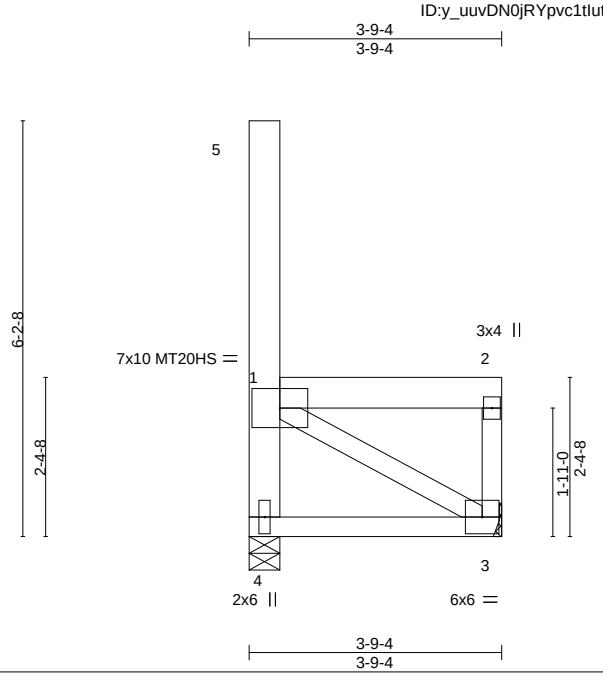

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.01	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-264(LC 11)
Max Uplift 4=-267(LC 11), 3=-267(LC 12)
Max Grav 4=377(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-376/885
BOT CHORD 3-4=-590/967
WEBS 1-3=-1074/654

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=267, 3=267.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J35	Roof Special	1	1	I51164873
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:37 2022 Page 1
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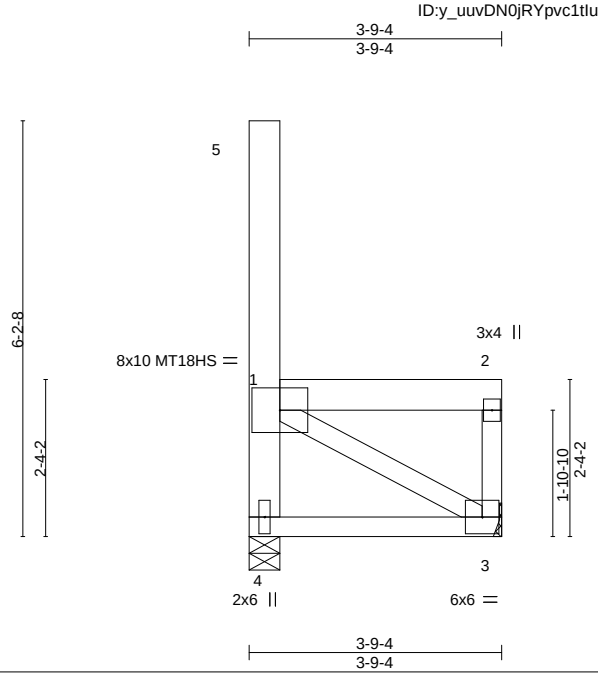

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-265(LC 11)
Max Uplift 4=-268(LC 11), 3=-268(LC 12)
Max Grav 4=378(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-378/886
BOT CHORD 3-4=-598/981
WEBS 1-3=-1086/661

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=268, 3=268.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J36	Roof Special	1	1	I51164874
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:38 2022 Page 1
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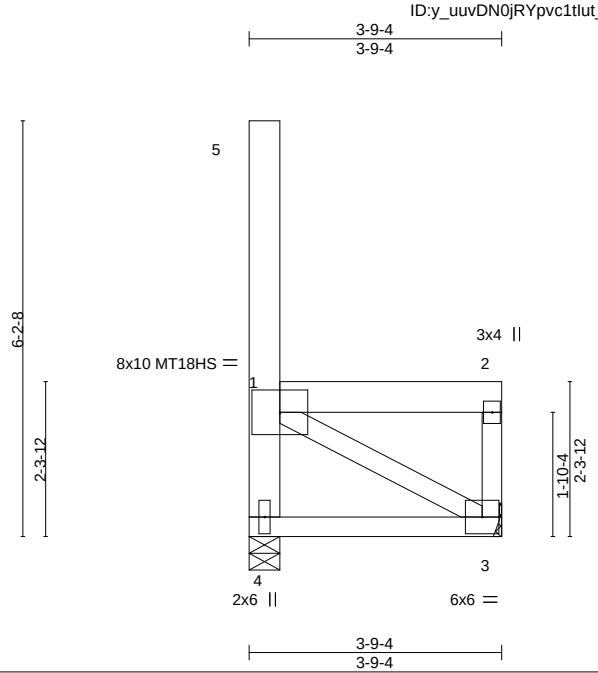

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-266(LC 11)
Max Uplift 4=-268(LC 11), 3=-268(LC 12)
Max Grav 4=378(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/887
BOT CHORD 3-4=-606/995
WEBS 1-3=-1099/667

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=268, 3=268.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J37	Roof Special	1	1	I51164875
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:39 2022 Page 1
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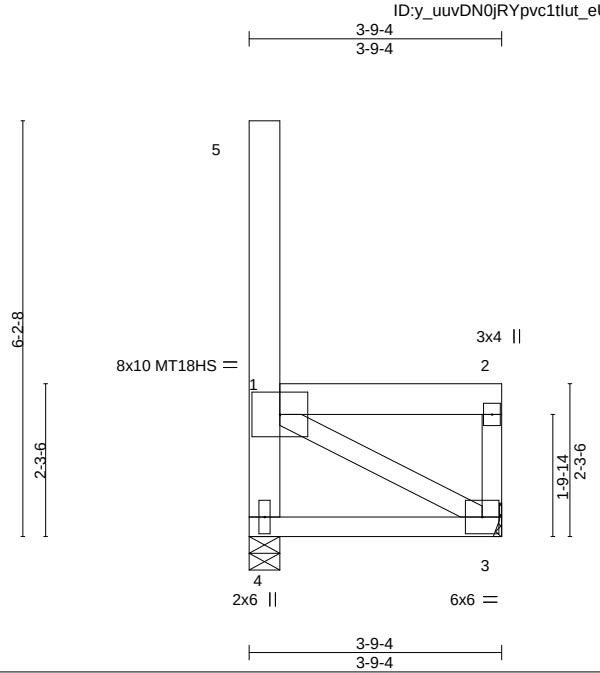

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-266(LC 11)
Max Uplift 4=-268(LC 11), 3=-268(LC 12)
Max Grav 4=378(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-383/888
BOT CHORD 3-4=-614/1010
WEBS 1-3=-1112/675

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=268, 3=268.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J38	Roof Special	1	1	I51164876
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:39 2022 Page 1
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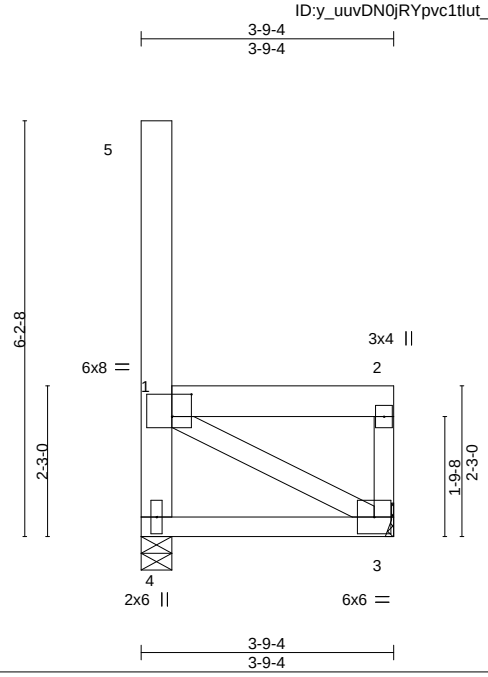

Plate Offsets (X,Y)-- [1:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-267(LC 11)
Max Uplift 4=-269(LC 11), 3=-269(LC 12)
Max Grav 4=378(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-386/890
BOT CHORD 3-4=-639/1049
WEBS 1-3=-1153/701

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=269, 3=269.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J38GE	Roof Special Supported Gable	1	1	I51164877
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:40 2022 Page 1
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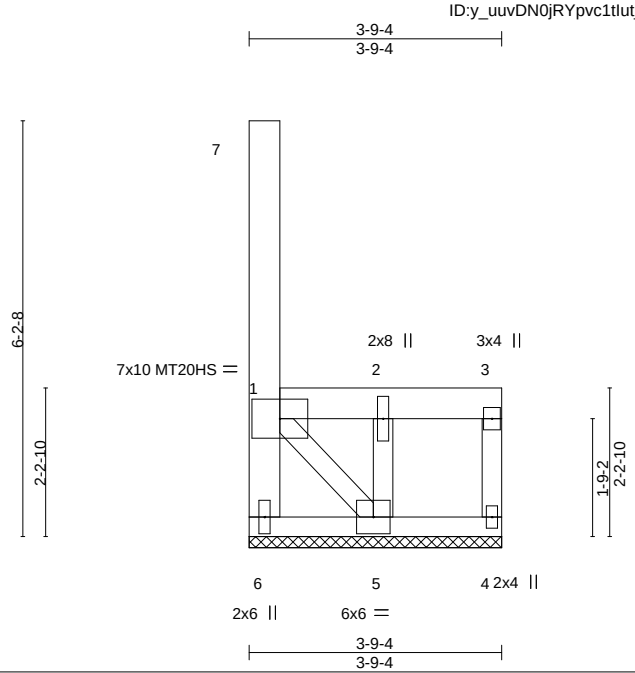

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP 2400F 2.0E
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-6-10 oc bracing.

REACTIONS. (size) 6=3-9-4, 4=3-9-4, 5=3-9-4
Max Horz 6=-268(LC 11)
Max Uplift 6=-531(LC 11), 4=-32(LC 11), 5=-561(LC 12)
Max Grav 6=551(LC 14), 4=68(LC 25), 5=623(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-797/1543
BOT CHORD	5-6=-621/1005
WEBS	2-5=-356/487, 1-5=-1382/861

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=531, 5=561.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=18, 1-7=38, 3-4=5
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-5, 1-7=-38, 3-4=-18
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-3, 1-7=-25, 3-4=-14
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J39	Roof Special	1	1	I51164878
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:40 2022 Page 1
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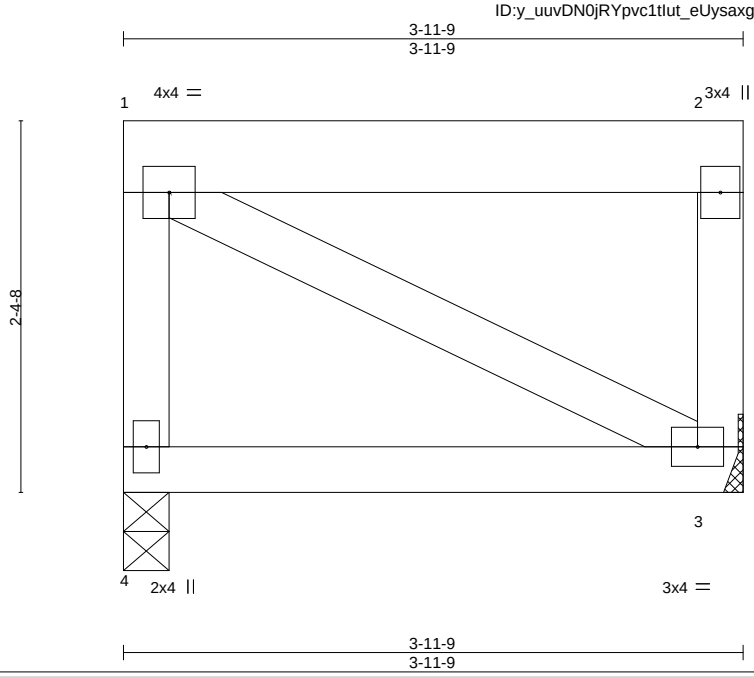

Scale = 1:14.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical
Max Horz 4=61(LC 12)
Max Uplift 4=-25(LC 11), 3=-25(LC 12)
Max Grav 4=263(LC 1), 3=214(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

April 5,2022

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J40	Roof Special	1	1	I51164879
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:42 2022 Page 1
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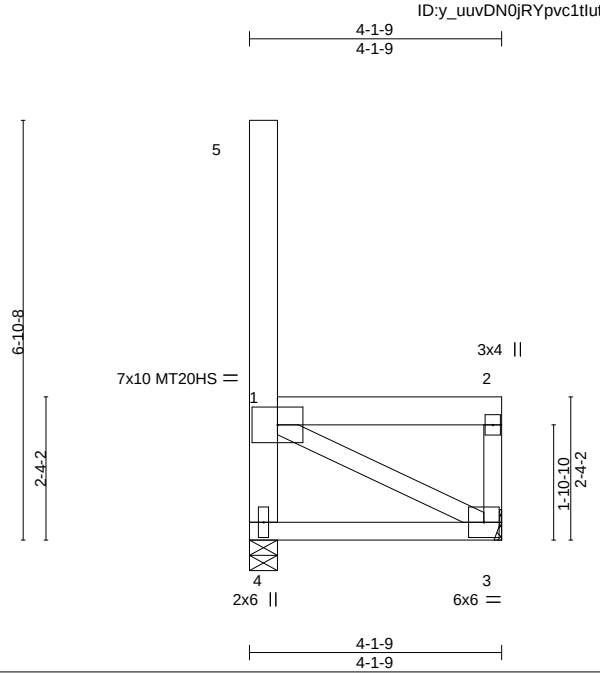

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.01	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-299(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=422(LC 25), 3=384(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-438/996
BOT CHORD 3-4=-749/1238
WEBS 1-3=-1351/816

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J41	Roof Special	1	1	I51164880
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:43 2022 Page 1
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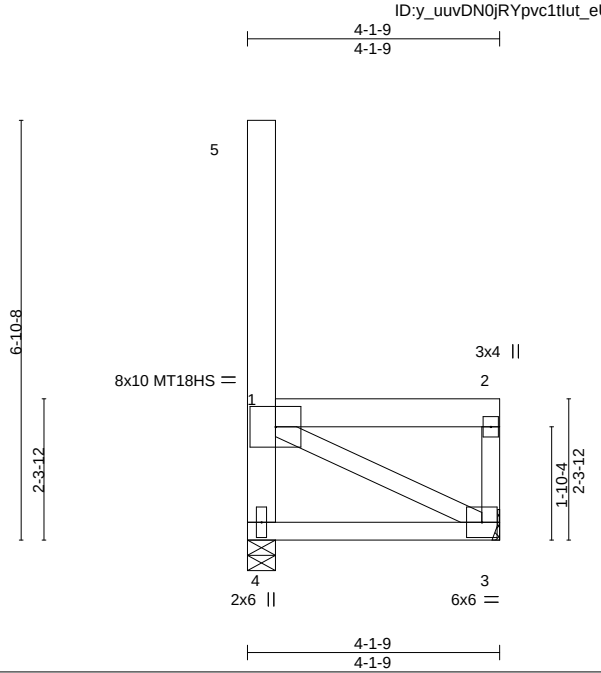

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-15 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-300(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=422(LC 25), 3=384(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-441/997
BOT CHORD 3-4=-760/1257
WEBS 1-3=-1369/826

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J42	Roof Special	1	1	I51164881
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:43 2022 Page 1
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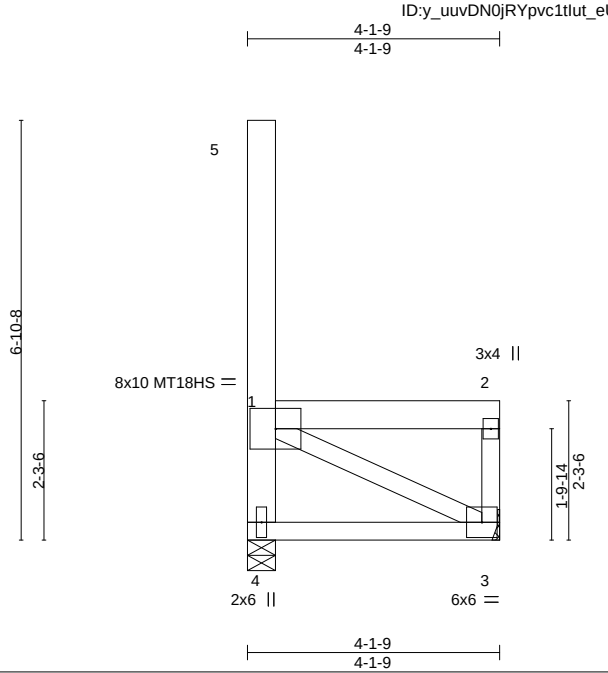

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-300(LC 11)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=422(LC 25), 3=384(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-443/999
BOT CHORD 3-4=-771/1276
WEBS 1-3=-1386/836

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=302, 3=302.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J43	Roof Special	1	1	I51164882
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:44 2022 Page 1
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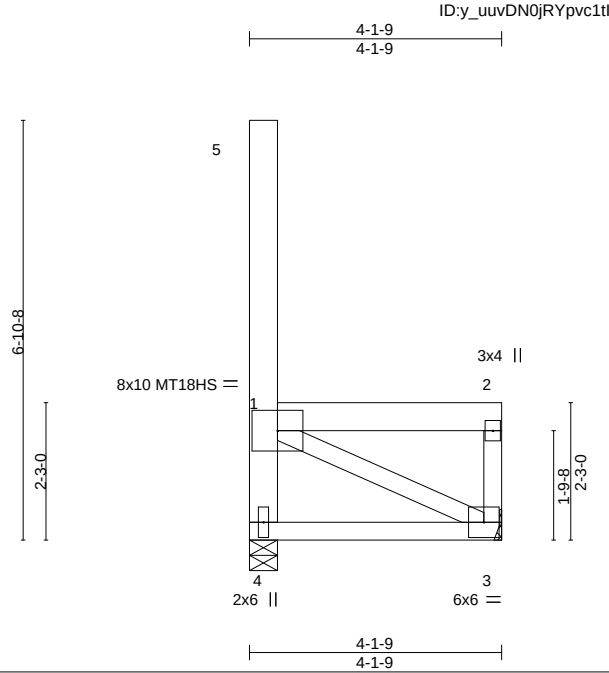

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.01	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=301(LC 12)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=422(LC 25), 3=385(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-445/1000
BOT CHORD 3-4=-782/1296
WEBS 1-3=-1405/846

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=302, 3=302.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J43GE	Roof Special Supported Gable	1	1	I51164883
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:45 2022 Page 1
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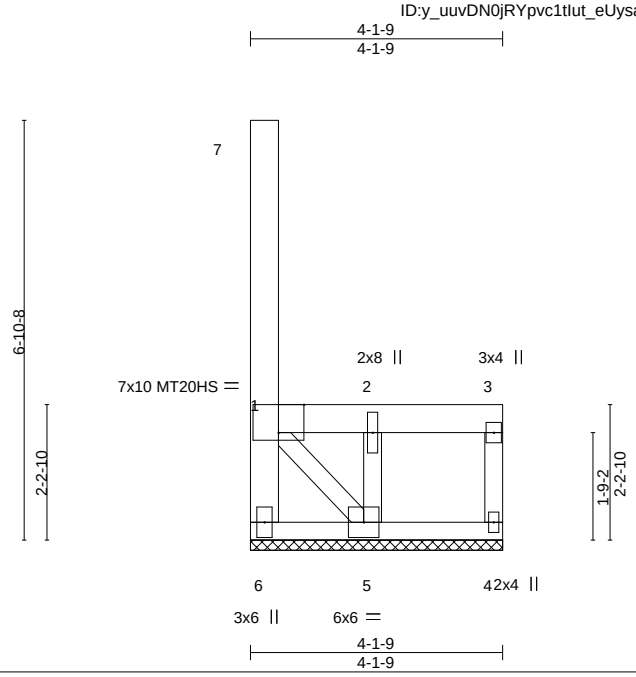

Plate Offsets (X,Y)-- [1:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 37 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP 2400F 2.0E
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-11-2 oc bracing.

REACTIONS. (size) 6=4-1-9, 4=4-1-9, 5=4-1-9
Max Horz 6=-302(LC 11)
Max Uplift 6=-660(LC 11), 4=-33(LC 11), 5=-692(LC 12)
Max Grav 6=678(LC 14), 4=83(LC 25), 5=760(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1008/1899
BOT CHORD 5-6=-739/1214
WEBS 2-5=-476/597, 1-5=-1684/1031

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=660, 5=692.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

April 5,2022

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164883
PRYOR-B1RA	J43GE	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=18, 1-7=38, 3-4=5
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-5, 1-7=-38, 3-4=-18
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-3, 1-7=-25, 3-4=-14
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-3=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-3=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J44	Roof Special	1	1	I51164884
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:45 2022 Page 1
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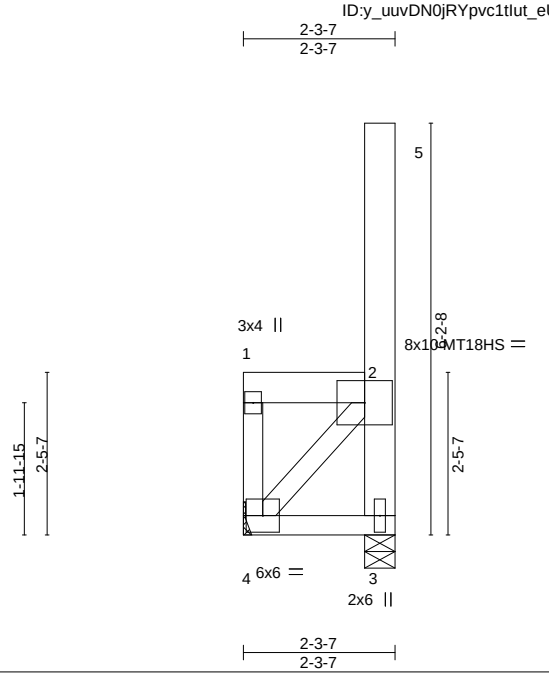

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-263(LC 11)
Max Uplift 4=-464(LC 11), 3=-464(LC 12)
Max Grav 4=492(LC 14), 3=492(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-579/1363
WEBS 2-4=-1261/711

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=464, 3=464.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J45	Roof Special	1	1	I51164885
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:46 2022 Page 1
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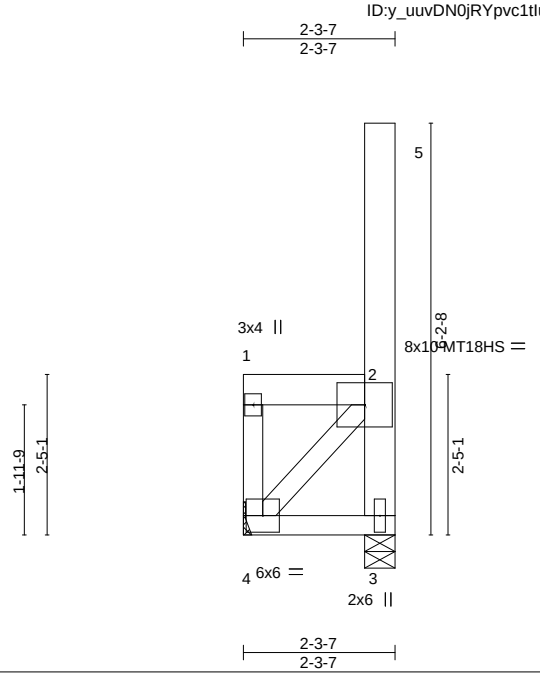

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-264(LC 11)
Max Uplift 4=-465(LC 11), 3=-465(LC 12)
Max Grav 4=493(LC 14), 3=493(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-251/246, 2-3=-579/1366
WEBS 2-4=-1269/714

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=465, 3=465.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J46	Roof Special	1	1	I51164886
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:46 2022 Page 1
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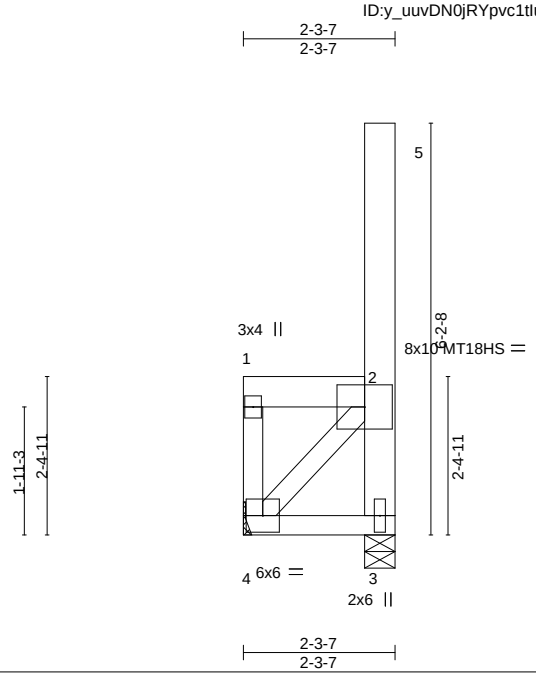

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-264(LC 13)
Max Uplift 4=-465(LC 11), 3=-465(LC 12)
Max Grav 4=493(LC 14), 3=493(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-254/247, 2-3=-579/1368
WEBS 2-4=-1277/717

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=465, 3=465.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J46GE	Roof Special Supported Gable	1	1	I51164887
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:47 2022 Page 1
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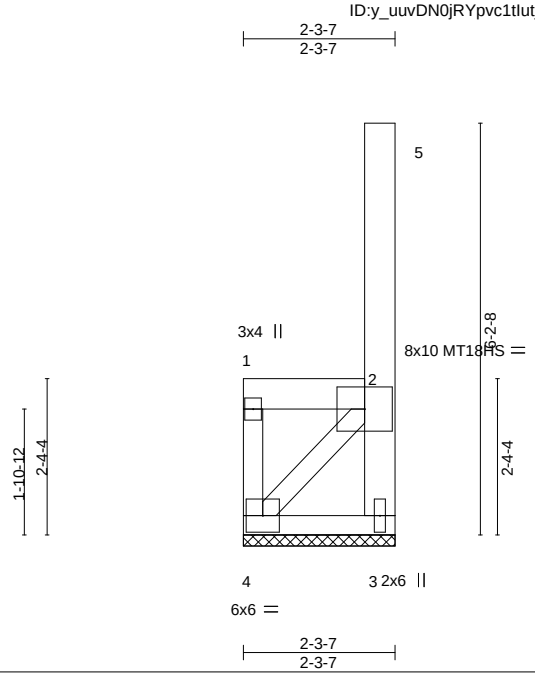

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-3-7, 3=2-3-7
Max Horz 4=-265(LC 11)
Max Uplift 4=-466(LC 11), 3=-466(LC 12)
Max Grav 4=494(LC 14), 3=494(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-258/272, 2-3=-676/1381
WEBS 2-4=-1299/822

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=466, 3=466.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J47	Roof Special	1	1	I51164888
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:48 2022 Page 1
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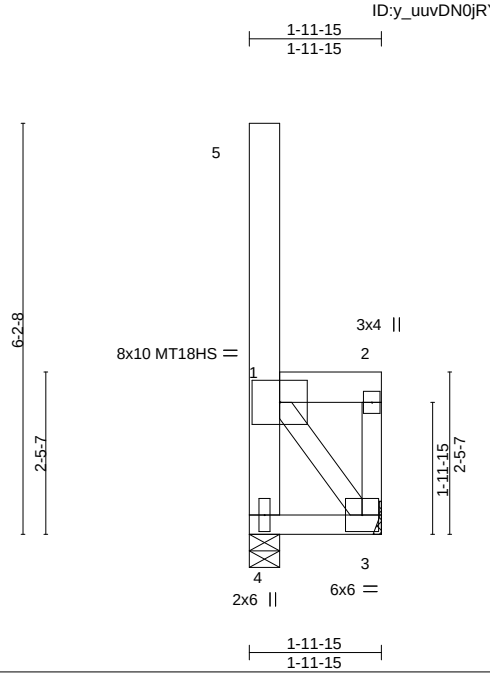

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-263(LC 11)
Max Uplift 4=-546(LC 11), 3=-546(LC 12)
Max Grav 4=570(LC 14), 3=570(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-715/1577, 2-3=-358/281
BOT CHORD 3-4=-490/870
WEBS 1-3=-1344/752

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=546, 3=546.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J48	Roof Special	1	1	I51164889
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:48 2022 Page 1
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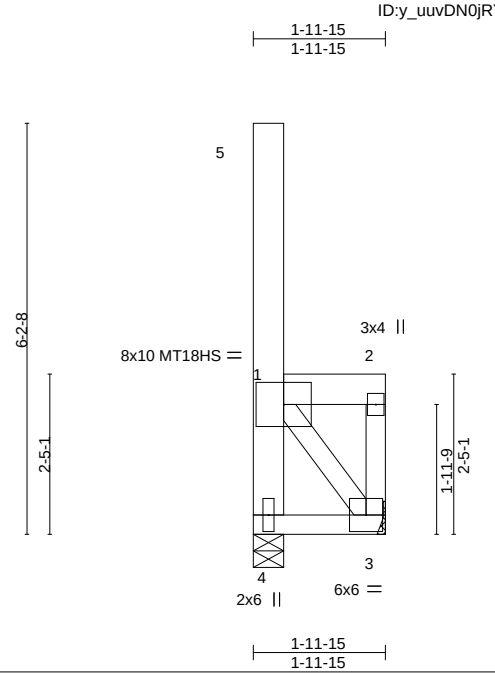

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-264(LC 11)
Max Uplift 4=-547(LC 11), 3=-547(LC 12)
Max Grav 4=571(LC 14), 3=571(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-715/1580, 2-3=-363/284
BOT CHORD 3-4=-495/881
WEBS 1-3=-1350/753

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=547, 3=547.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J49	Roof Special	1	1	I51164890
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:49 2022 Page 1
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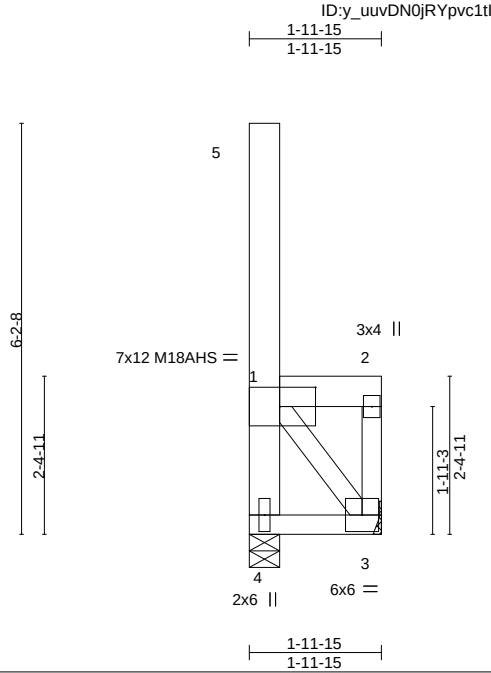

Plate Offsets (X,Y)-- [1:0-6-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=264(LC 12)
Max Uplift 4=-548(LC 11), 3=-548(LC 12)
Max Grav 4=571(LC 14), 3=571(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-715/1583, 2-3=-367/286
BOT CHORD 3-4=-500/892
WEBS 1-3=-1356/755

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=548, 3=548.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J49	Roof Special	1	1	I51164890 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 1-5=38, 2-3=5
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 1-5=-38, 2-3=-18
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 1-5=-25, 2-3=3
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 1-5=-25, 2-3=-14
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J49GE	Roof Special Supported Gable	1	1	I51164891
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:49 2022 Page 1

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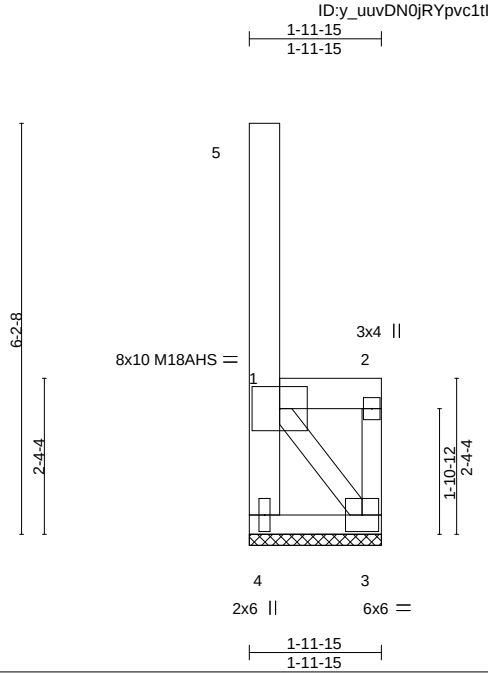

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-11-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-10-4 oc bracing.

REACTIONS. (size) 4=1-11-15, 3=1-11-15
Max Horz 4=-265(LC 11)
Max Uplift 4=-549(LC 11), 3=-549(LC 12)
Max Grav 4=572(LC 14), 3=572(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-829/1598, 2-3=-372/319
BOT CHORD	3-4=-573/923
WEBS	1-3=-1377/864

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=549, 3=549.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J50	Roof Special	1	1	I51164892
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:51 2022 Page 1
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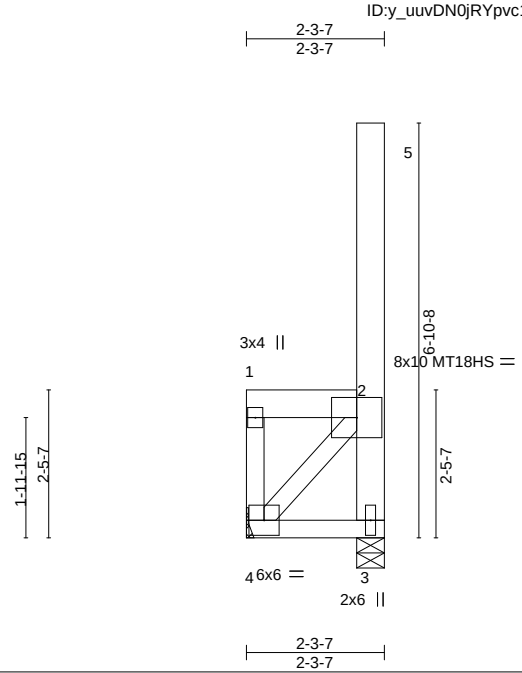

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-297(LC 13)
Max Uplift 4=-577(LC 11), 3=-577(LC 12)
Max Grav 4=605(LC 14), 3=605(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-329/283, 2-3=-738/1680
BOT CHORD 3-4=-210/317
WEBS 2-4=-1581/873

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=577, 3=577.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J51	Roof Special	1	1	I51164893
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:51 2022 Page 1
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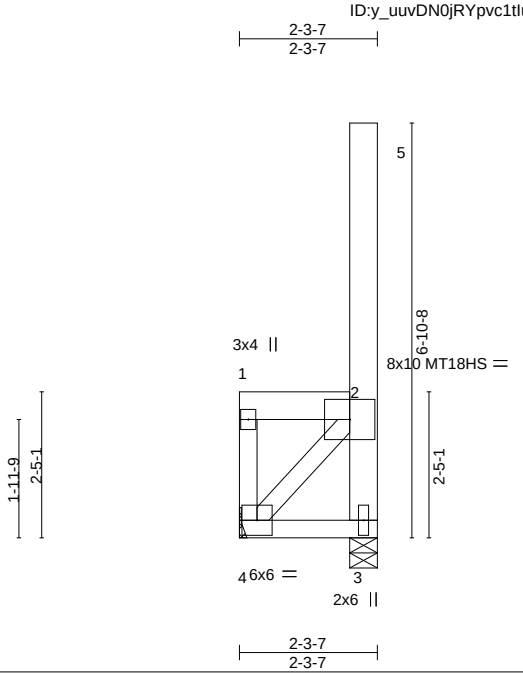

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-298(LC 11)
Max Uplift 4=-578(LC 11), 3=-578(LC 12)
Max Grav 4=606(LC 14), 3=606(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-332/285, 2-3=-738/1683
BOT CHORD 3-4=-216/330
WEBS 2-4=-1592/878

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=578, 3=578.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J52	Roof Special	1	1	I51164894
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:52 2022 Page 1
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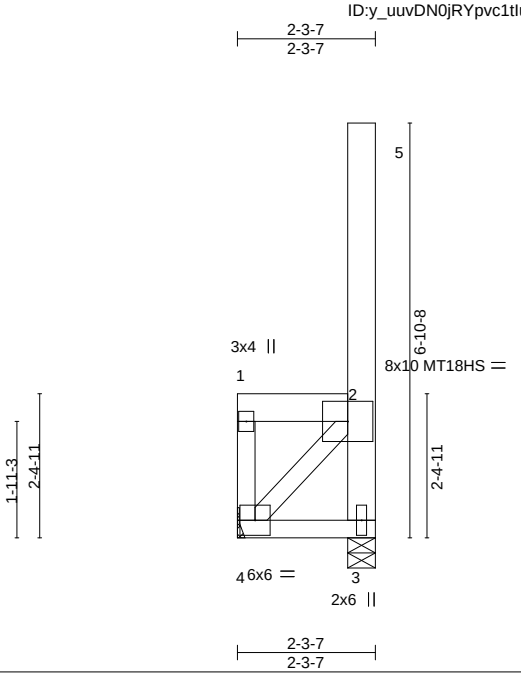

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-298(LC 11)
Max Uplift 4=-579(LC 11), 3=-579(LC 12)
Max Grav 4=606(LC 14), 3=606(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-335/286, 2-3=-738/1685
BOT CHORD 3-4=-222/344
WEBS 2-4=-1603/882

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=579, 3=579.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J52GE	Roof Special Supported Gable	1	1	I51164895
					Job Reference (optional)

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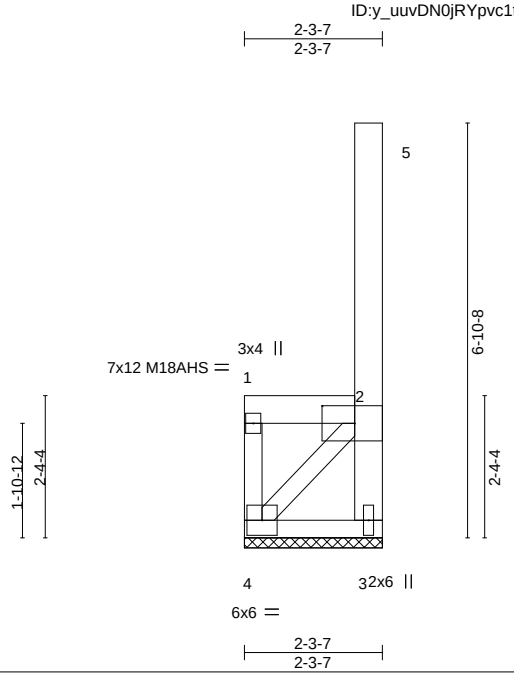

Plate Offsets (X,Y)-- [2:0-6-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-3-7, 3=2-3-7
Max Horz 4=-299(LC 13)
Max Uplift 4=-579(LC 11), 3=-579(LC 12)
Max Grav 4=607(LC 14), 3=607(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-338/317, 2-3=-857/1698
BOT CHORD 3-4=-257/357
WEBS 2-4=-1628/1012

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=579, 3=579.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J53	Roof Special	1	1	I51164896
					Job Reference (optional)

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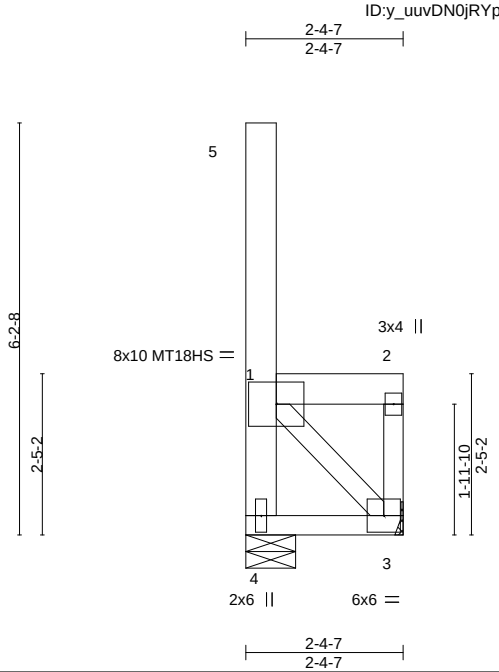

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-7 oc bracing.

REACTIONS. (size) 4=0-9-0, 3=Mechanical
Max Horz 4=263(LC 12)
Max Uplift 4=-445(LC 11), 3=-445(LC 12)
Max Grav 4=474(LC 14), 3=474(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-547/1316
BOT CHORD 3-4=-513/903
WEBS 1-3=-1235/697

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=445, 3=445.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150(F=-80)-to-2=-70

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120(F=-60)-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 1-5=38, 2-3=5
   Trapezoidal Loads (plf)
      Vert: 1=-108(F=-60)-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 1-5=-38, 2-3=-18
   Trapezoidal Loads (plf)
      Vert: 1=-108(F=-60)-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 1-5=-25, 2-3=3
   Trapezoidal Loads (plf)
      Vert: 1=-108(F=-60)-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 1-5=-25, 2-3=-14
   Trapezoidal Loads (plf)
      Vert: 1=-108(F=-60)-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150(F=-80)-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J54	Roof Special	1	1	I51164897
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:54 2022 Page 1
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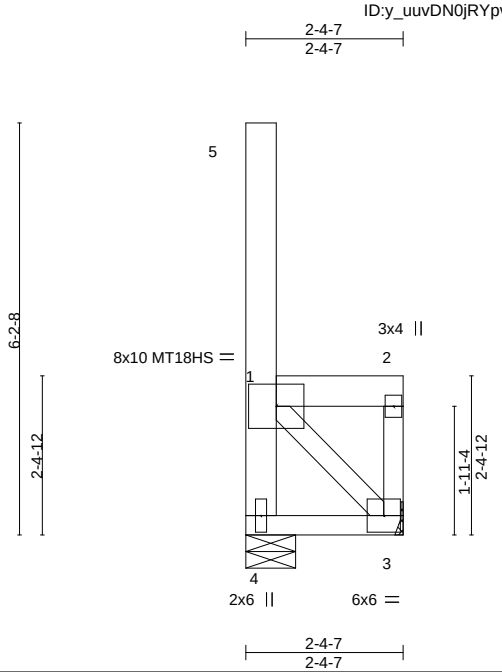

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (size) 4=0-9-0, 3=Mechanical
Max Horz 4=264(LC 12)
Max Uplift 4=-446(LC 11), 3=-446(LC 12)
Max Grav 4=475(LC 14), 3=475(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-550/1318
BOT CHORD 3-4=-519/915
WEBS 1-3=-1243/700

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=446, 3=446.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J55	Roof Special	1	1	I51164898
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:54 2022 Page 1
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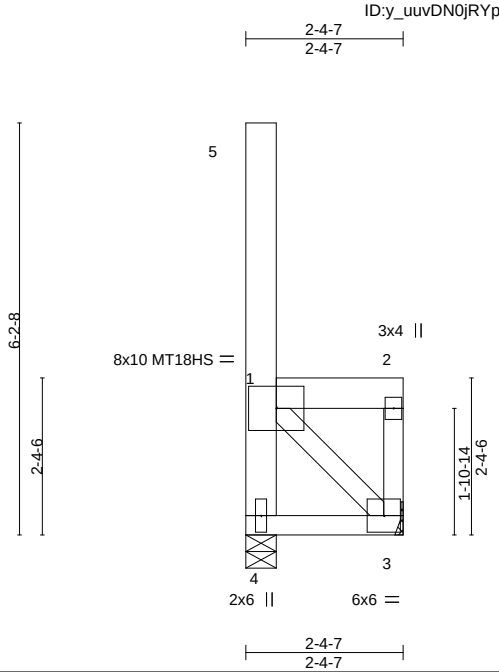

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=265(LC 12)
Max Uplift 4=-447(LC 11), 3=-447(LC 12)
Max Grav 4=476(LC 14), 3=476(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-555/1320
BOT CHORD 3-4=-525/927
WEBS 1-3=-1251/703

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=447, 3=447.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J55GE	Roof Special Supported Gable	1	1	I51164899
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:55 2022 Page 1
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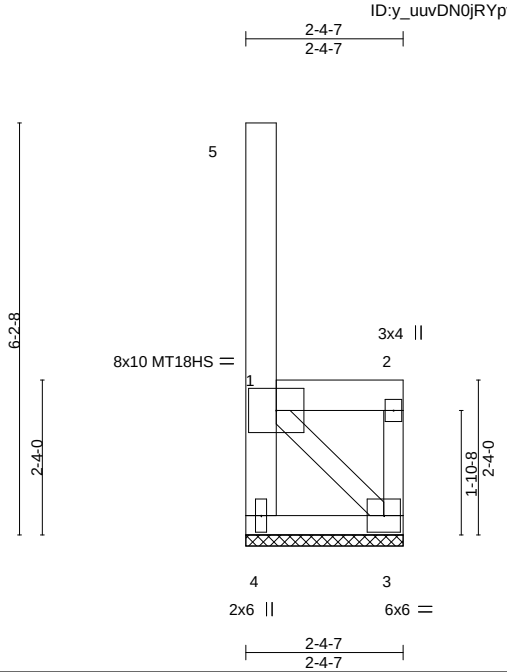

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.

REACTIONS. (size) 4=2-4-7, 3=2-4-7
Max Horz 4=265(LC 12)
Max Uplift 4=-447(LC 11), 3=-447(LC 12)
Max Grav 4=476(LC 14), 3=476(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-639/1332, 2-3=-244/271
BOT CHORD 3-4=-601/959
WEBS 1-3=-1273/806

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=447, 3=447.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J56	Roof Special	1	1	I51164900
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:56 2022 Page 1
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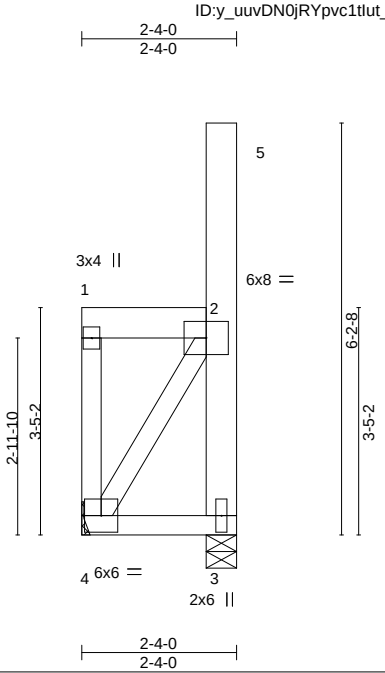

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-244(LC 11)
Max Uplift 4=-428(LC 11), 3=-428(LC 12)
Max Grav 4=456(LC 14), 3=456(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-559/1243
WEBS 2-4=-1102/676

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=428, 3=428.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J56GE	Roof Special Supported Gable	1	1	I51164901
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:56 2022 Page 1
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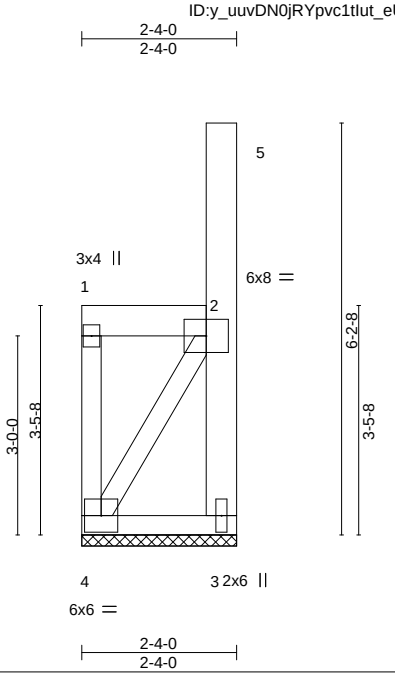

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-243(LC 13)
Max Uplift 4=-427(LC 11), 3=-427(LC 12)
Max Grav 4=455(LC 14), 3=455(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-652/1263
WEBS 2-4=-1127/773

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=427, 3=427.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J57	Roof Special	1	1	I51164902
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:57 2022 Page 1
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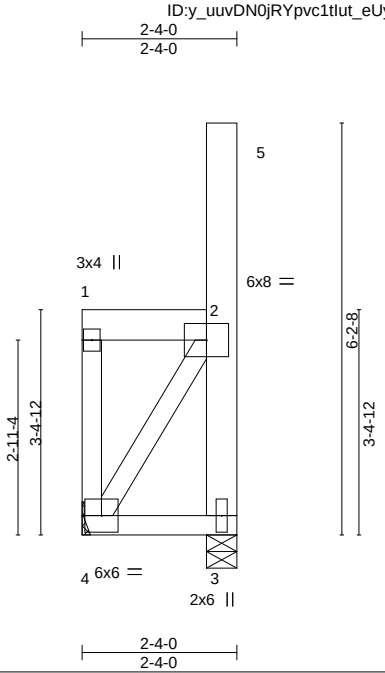

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-244(LC 13)
Max Uplift 4=-429(LC 11), 3=-429(LC 12)
Max Grav 4=457(LC 14), 3=457(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-559/1247
WEBS 2-4=-1106/676

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=429, 3=429.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J58	Roof Special	1	1	I51164903
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:58 2022 Page 1
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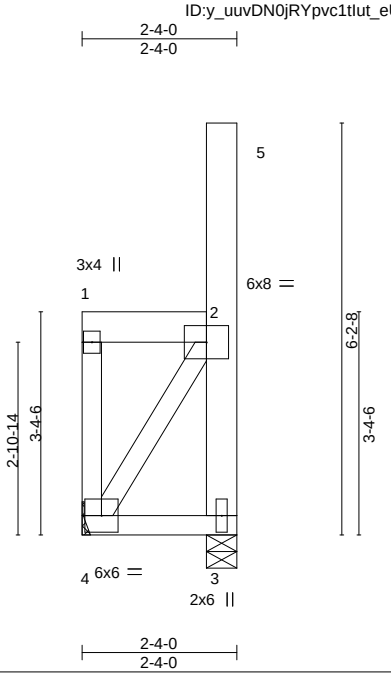

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-245(LC 13)
Max Uplift 4=-430(LC 11), 3=-430(LC 12)
Max Grav 4=458(LC 14), 3=458(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-559/1251
WEBS 2-4=-1109/676

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=430, 3=430.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J59	Roof Special	1	1	I51164904
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:58 2022 Page 1
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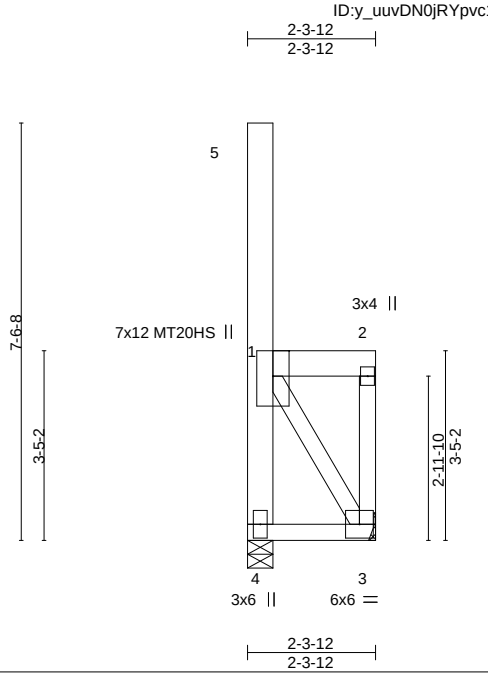

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-312(LC 11)
Max Uplift 4=-667(LC 11), 3=-667(LC 12)
Max Grav 4=696(LC 14), 3=696(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-896/1913, 2-3=-331/285
BOT CHORD 3-4=-550/947
WEBS 1-3=-1648/950

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=667, 3=667.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J59GE	Roof Special Supported Gable	1	1	I51164905
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:16:59 2022 Page 1
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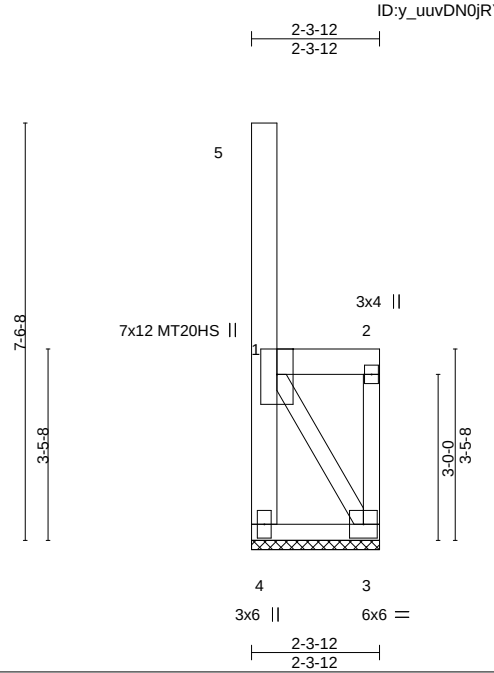

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-11 oc bracing.

REACTIONS. (size) 4=2-3-12, 3=2-3-12
Max Horz 4=-311(LC 11)
Max Uplift 4=-667(LC 11), 3=-667(LC 12)
Max Grav 4=695(LC 14), 3=695(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1038/1934, 2-3=-327/309
BOT CHORD 3-4=-619/969
WEBS 1-3=-1672/1085

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=667, 3=667.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J60	Roof Special	1	1	I51164906
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:00 2022 Page 1
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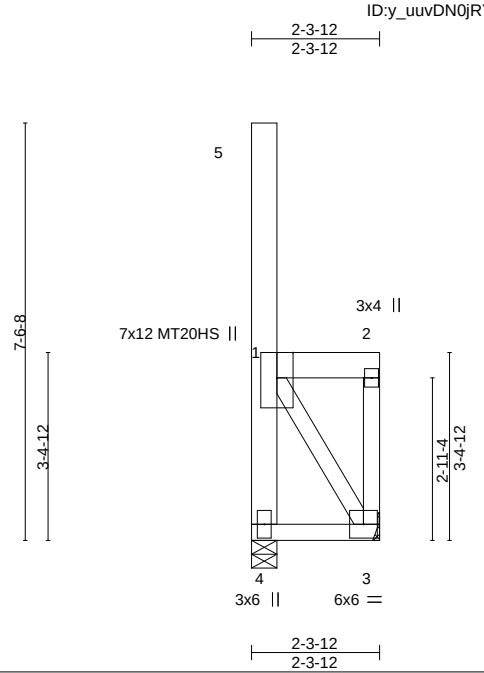

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-312(LC 11)
Max Uplift 4=-668(LC 11), 3=-668(LC 12)
Max Grav 4=696(LC 14), 3=696(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-896/1916, 2-3=-335/287
BOT CHORD 3-4=-554/955
WEBS 1-3=-1652/950

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=668, 3=668.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J61	Roof Special	1	1	I51164907
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:01 2022 Page 1
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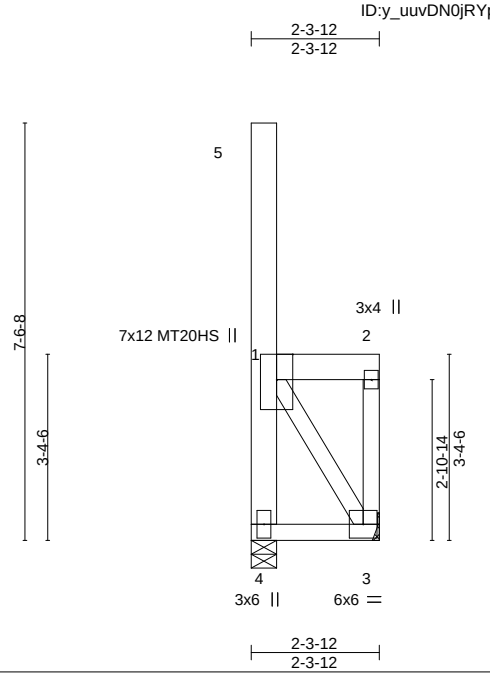

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-313(LC 11)
Max Uplift 4=-669(LC 11), 3=-669(LC 12)
Max Grav 4=697(LC 14), 3=697(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-895/1919, 2-3=-339/289
BOT CHORD 3-4=-557/964
WEBS 1-3=-1656/950

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=669, 3=669.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J62	Roof Special	1	1	I51164908
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:01 2022 Page 1
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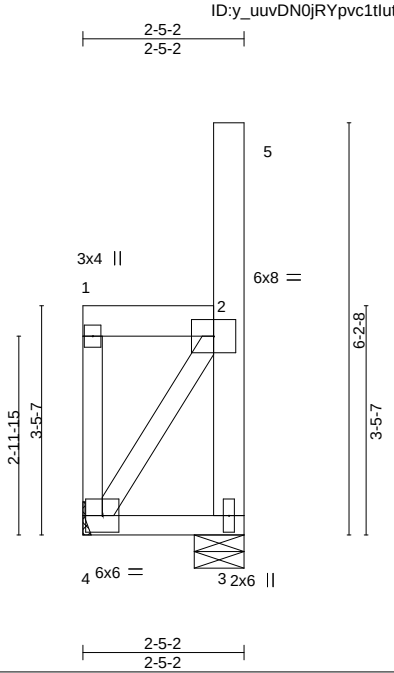

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-9-0
Max Horz 4=-243(LC 11)
Max Uplift 4=-408(LC 11), 3=-408(LC 12)
Max Grav 4=438(LC 14), 3=438(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-524/1193
WEBS 2-4=-1068/658

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=408, 3=408.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J62GE	Roof Special Supported Gable	1	1	I51164909
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:02 2022 Page 1
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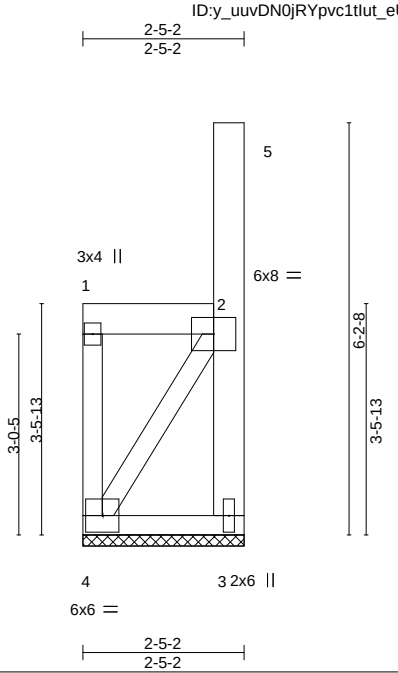

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-5-2, 3=2-5-2
Max Horz 4=-243(LC 11)
Max Uplift 4=-407(LC 11), 3=-407(LC 12)
Max Grav 4=437(LC 14), 3=437(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-613/1212
WEBS 2-4=-1092/752

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=407, 3=407.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

April 5,2022

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164909
PRYOR-B1RA	J62GE	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 2-3=5, 2-5=38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 2-3=-18, 2-5=-38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 2-3=3, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-14, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J63	Roof Special	1	1	I51164910
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:03 2022 Page 1
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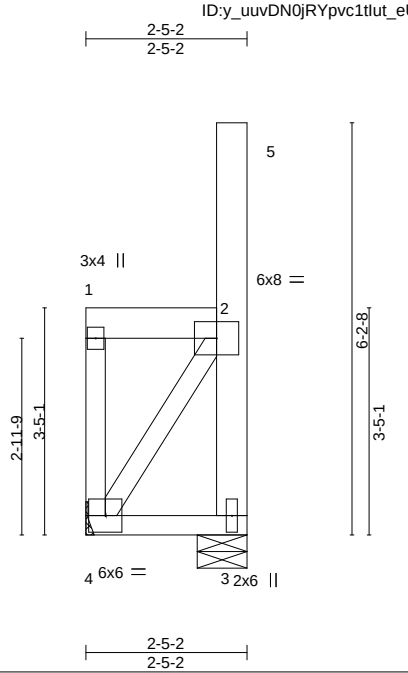

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-9-0
Max Horz 4=-244(LC 11)
Max Uplift 4=-409(LC 11), 3=-409(LC 12)
Max Grav 4=439(LC 14), 3=439(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-524/1196
WEBS 2-4=-1071/658

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=409, 3=409.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164910
PRYOR-B1RA	J63	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J64	Roof Special	1	1	I51164911
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:03 2022 Page 1
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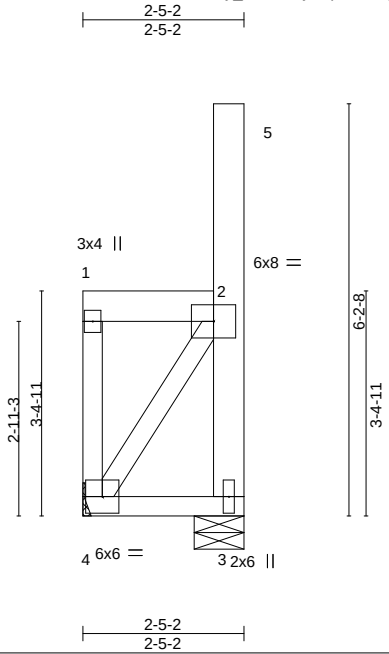

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-9-0
Max Horz 4=244(LC 12)
Max Uplift 4=-410(LC 11), 3=-410(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-525/1200
WEBS 2-4=-1075/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=410, 3=410.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J65	Roof Special	1	1	I51164912
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:04 2022 Page 1
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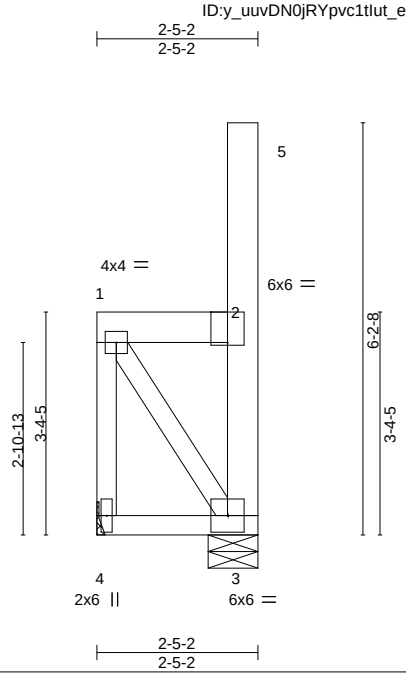

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 31 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-15 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-9-0
Max Horz 4=-245(LC 11)
Max Uplift 4=-411(LC 11), 3=-411(LC 12)
Max Grav 4=441(LC 14), 3=441(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1002/727, 1-2=-548/331, 2-3=-165/316
BOT CHORD 3-4=-575/381
WEBS 1-3=-654/1077

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=411, 3=411.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J66	Roof Special	1	1	I51164913
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:04 2022 Page 1
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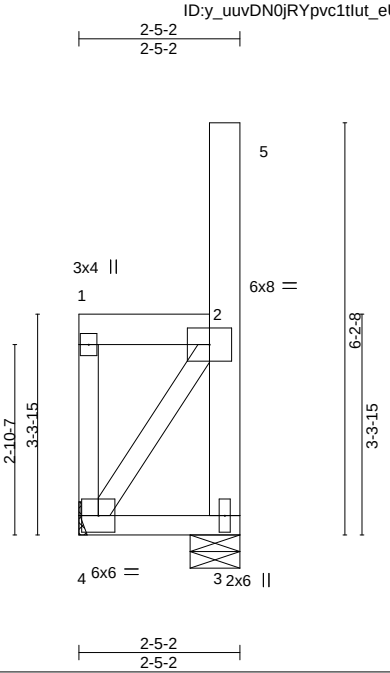

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-9-0
Max Horz 4=-246(LC 11)
Max Uplift 4=-412(LC 11), 3=-412(LC 12)
Max Grav 4=442(LC 14), 3=442(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-525/1207
WEBS 2-4=-1082/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=412, 3=412.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
April 5,2022

Continued on page 2

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J67	Roof Special	1	1	I51164914
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:05 2022 Page 1
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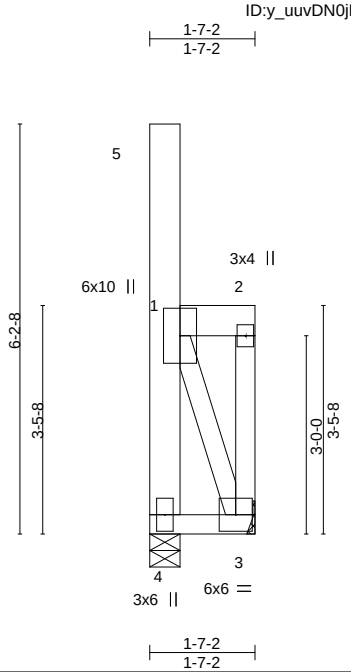

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-243(LC 11)
Max Uplift 4=-682(LC 11), 3=-682(LC 12)
Max Grav 4=699(LC 14), 3=699(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-993/1897, 2-3=-360/250
BOT CHORD 3-4=-382/624
WEBS 1-3=-1524/928

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=682, 3=682.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J67GE	Roof Special Supported Gable	1	1	I51164915 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:06 2022 Page 1
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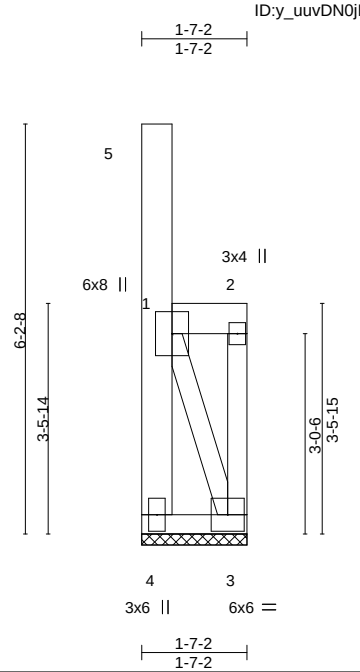

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.

REACTIONS. (size) 4=1-7-2, 3=1-7-2
Max Horz 4=-242(LC 11)
Max Uplift 4=-681(LC 11), 3=-681(LC 12)
Max Grav 4=698(LC 14), 3=698(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1143/1931, 2-3=-355/271
BOT CHORD 3-4=-429/649
WEBS 1-3=-1563/1065

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=681, 3=681.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J68	Roof Special	1	1	I51164916
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:06 2022 Page 1
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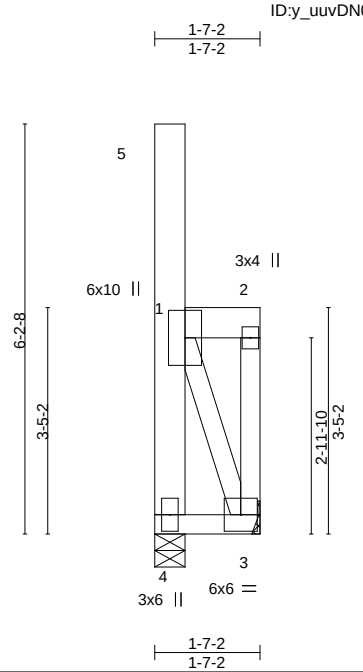

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-244(LC 11)
Max Uplift 4=-683(LC 11), 3=-683(LC 12)
Max Grav 4=701(LC 14), 3=701(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-992/1902, 2-3=-367/253
BOT CHORD 3-4=-384/629
WEBS 1-3=-1524/925

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=683, 3=683.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J69	Roof Special	1	1	I51164917
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:07 2022 Page 1
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1-7-2
1-7-2

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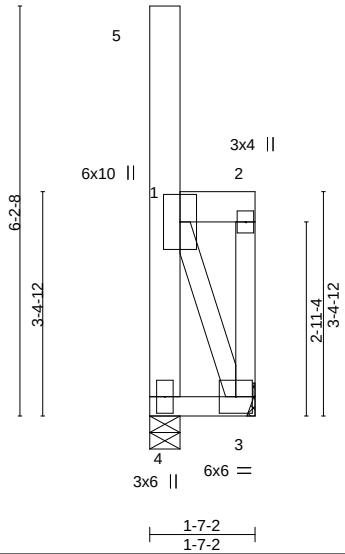

1-7-2
1-7-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-244(LC 11)
Max Uplift 4=-684(LC 11), 3=-684(LC 12)
Max Grav 4=702(LC 14), 3=702(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-992/1907, 2-3=-374/257
BOT CHORD 3-4=-385/634
WEBS 1-3=-1524/922

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=684, 3=684.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J70	Roof Special	1	1	I51164918
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:08 2022 Page 1
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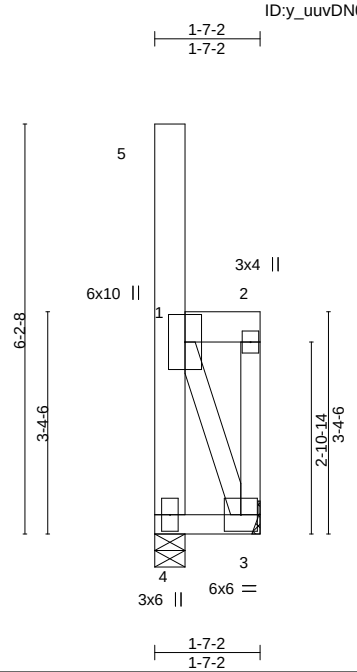

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-245(LC 11)
Max Uplift 4=-686(LC 11), 3=-686(LC 12)
Max Grav 4=703(LC 14), 3=703(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-992/1912, 2-3=-380/261
BOT CHORD 3-4=-387/638
WEBS 1-3=-1525/919

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=686, 3=686.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J71	Roof Special	1	1	I51164919
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:09 2022 Page 1
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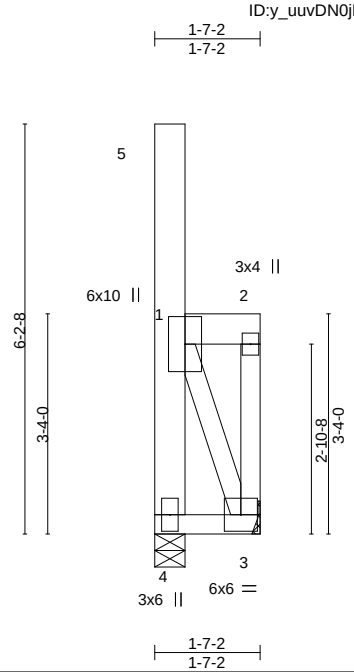

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-245(LC 11)
Max Uplift 4=-687(LC 11), 3=-687(LC 12)
Max Grav 4=705(LC 14), 3=705(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-991/1917, 2-3=-387/264
BOT CHORD 3-4=-389/643
WEBS 1-3=-1525/916

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=687, 3=687.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J72	Roof Special	1	1	I51164920
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:10 2022 Page 1
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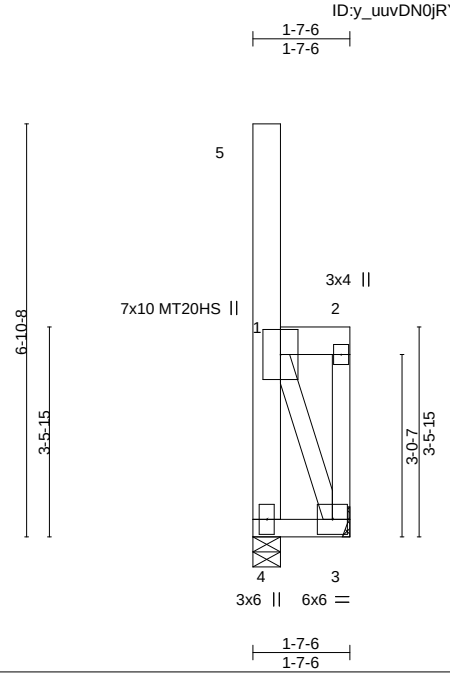

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-276(LC 11)
Max Uplift 4=-843(LC 11), 3=-843(LC 12)
Max Grav 4=861(LC 14), 3=861(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1218/2350, 2-3=-530/336
BOT CHORD 3-4=-441/740
WEBS 1-3=-1828/1081

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=843, 3=843.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J72GE	Flat Supported Gable	1	1	I51164921
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:10 2022 Page 1
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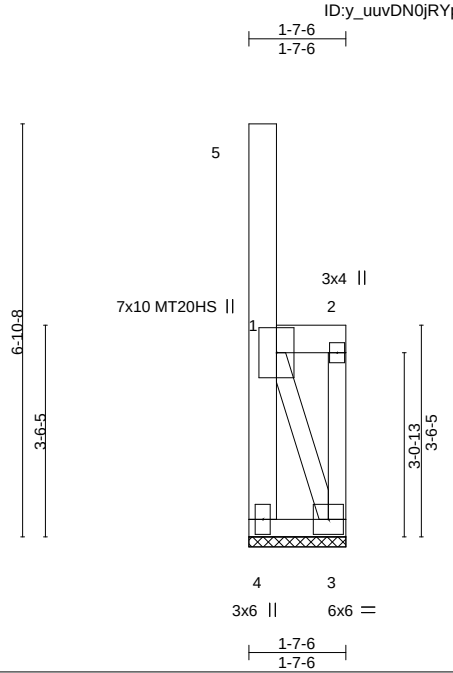

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing.

REACTIONS. (size) 4=1-7-6, 3=1-7-6
Max Horz 4=-276(LC 11)
Max Uplift 4=-842(LC 11), 3=-842(LC 12)
Max Grav 4=860(LC 14), 3=860(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1401/2385, 2-3=-524/369
BOT CHORD 3-4=-496/765
WEBS 1-3=-1868/1241

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Gable requires continuous bottom chord bearing.
10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
11) Gable studs spaced at 2-0-0 oc.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=842, 3=842.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-90-to-2=-30
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-90-to-2=-30
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-2=-30
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-2=-30
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-20
   Horz: 1-4=18, 1-5=38, 2-3=5
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-20
   Horz: 1-4=-5, 1-5=-38, 2-3=-18
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-20
   Horz: 1-4=14, 1-5=-25, 2-3=3
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-20
   Horz: 1-4=-3, 1-5=-25, 2-3=-14
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J73	Roof Special	1	1	I51164922
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:11 2022 Page 1
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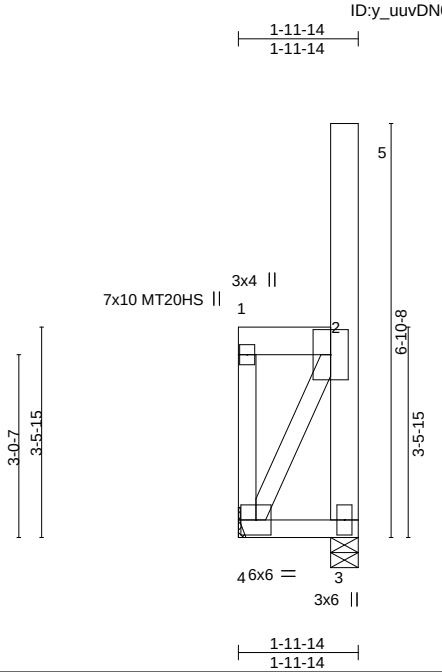

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-276(LC 11)
Max Uplift 4=-648(LC 11), 3=-648(LC 12)
Max Grav 4=672(LC 14), 3=672(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-327/260, 2-3=-902/1835
WEBS 2-4=-1520/902

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=648, 3=648.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J73GE	Roof Special Supported Gable	1	1	I51164923
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:12 2022 Page 1
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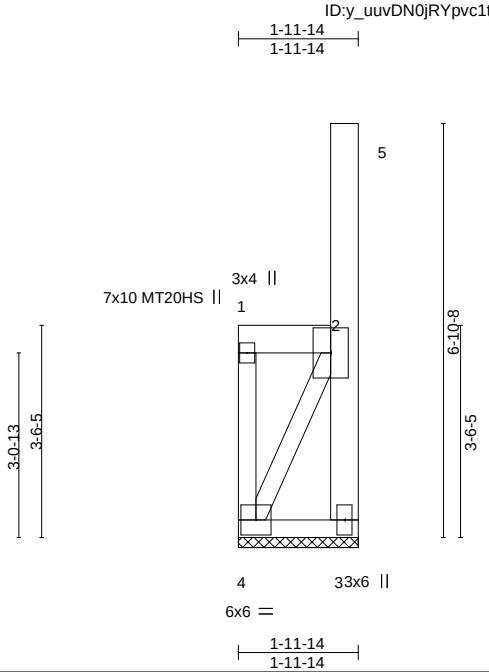

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-11-14, 3=1-11-14
Max Horz 4=-276(LC 11)
Max Uplift 4=-647(LC 11), 3=-647(LC 12)
Max Grav 4=670(LC 14), 3=670(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-322/282, 2-3=-1042/1861
WEBS 2-4=-1551/1032

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=647, 3=647.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J73GE	Roof Special Supported Gable	1	1	I51164923 Job Reference (optional)

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J74	Roof Special	1	1	I51164924
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:12 2022 Page 1
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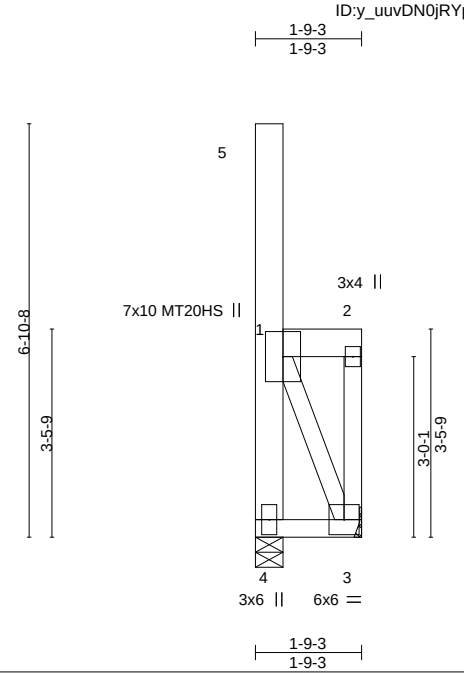

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-277(LC 11)
Max Uplift 4=-754(LC 11), 3=-754(LC 12)
Max Grav 4=774(LC 14), 3=774(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1072/2114, 2-3=-443/303
BOT CHORD 3-4=-449/756
WEBS 1-3=-1683/993

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=754, 3=754.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J74GE	Roof Special Supported Gable	1	1	I51164925
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:13 2022 Page 1
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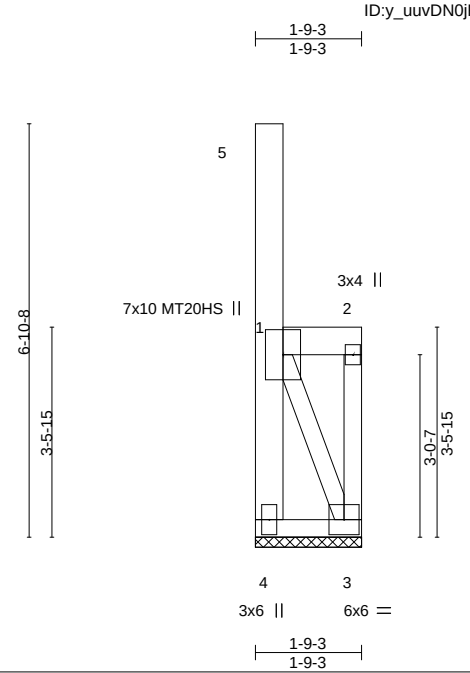

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-7 oc bracing.

REACTIONS. (size) 4=1-9-3, 3=1-9-3
Max Horz 4=-276(LC 11)
Max Uplift 4=-752(LC 11), 3=-752(LC 12)
Max Grav 4=773(LC 14), 3=773(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1235/2143, 2-3=-438/331
BOT CHORD 3-4=-505/780
WEBS 1-3=-1718/1139

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=752, 3=752.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51164925
PRYOR-B1RA	J74GE	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J75	Roof Special	1	1	I51164926
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:13 2022 Page 1
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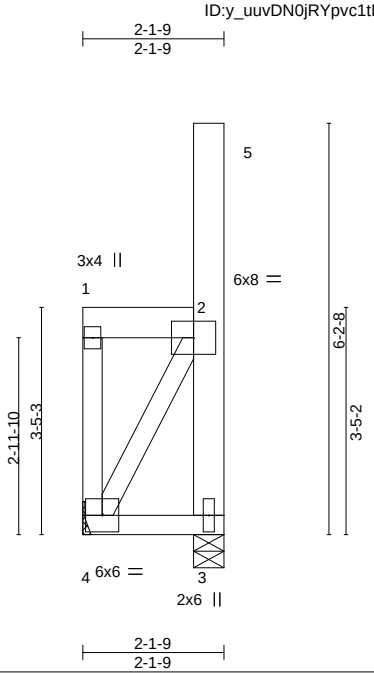

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-244(LC 13)
Max Uplift 4=-476(LC 11), 3=-476(LC 12)
Max Grav 4=502(LC 14), 3=502(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-645/1366
WEBS 2-4=-1183/723

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=476, 3=476.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J75GE	Roof Special Supported Gable	1	1	I51164927
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:14 2022 Page 1
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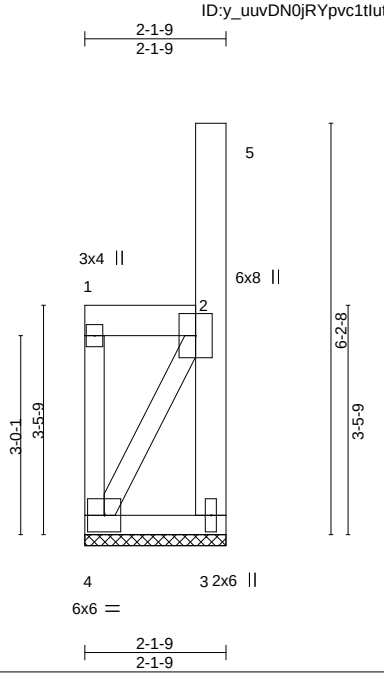

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-1-9, 3=2-1-9
Max Horz 4=-243(LC 11)
Max Uplift 4=-475(LC 11), 3=-475(LC 12)
Max Grav 4=501(LC 14), 3=501(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-749/1388
WEBS 2-4=-1210/827

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=475, 3=475.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J75GE	Roof Special Supported Gable	1	1	I51164927 Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 2-3=5, 2-5=38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 2-3=-18, 2-5=-38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 2-3=3, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-14, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J76	Roof Special	1	1	I51164928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:15 2022 Page 1
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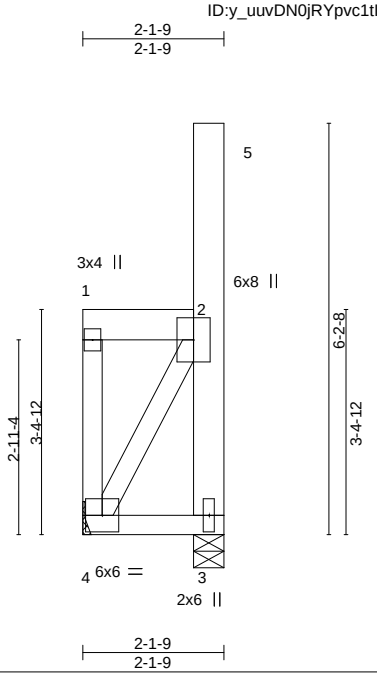

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-244(LC 11)
Max Uplift 4=-478(LC 11), 3=-478(LC 12)
Max Grav 4=503(LC 14), 3=503(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-645/1370
WEBS 2-4=-1186/722

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=478, 3=478.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J77	Roof Special	1	1	I51164929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:15 2022 Page 1
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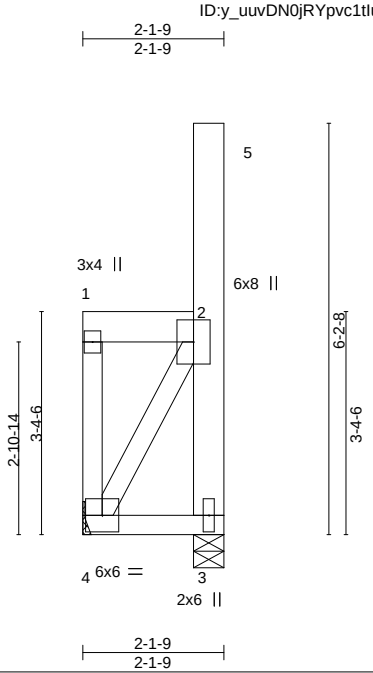

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-245(LC 11)
Max Uplift 4=-479(LC 11), 3=-479(LC 12)
Max Grav 4=504(LC 14), 3=504(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-645/1374
WEBS 2-4=-1188/721

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=479, 3=479.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J78	Roof Special	1	1	I51164930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:16 2022 Page 1
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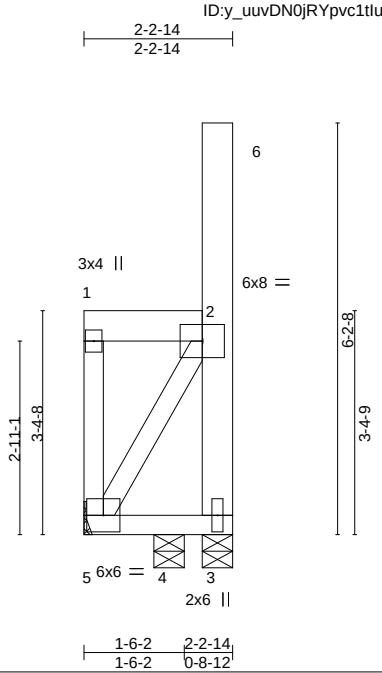

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-6: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 3=0-5-8, 4=0-5-8
Max Horz 5=-245(LC 11)
Max Uplift 5=-456(LC 11), 3=-459(LC 12)
Max Grav 5=468(LC 14), 3=462(LC 13), 4=24(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-596/1301
WEBS 2-5=-1141/695

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=456, 3=459.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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Continued on page 2

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-20
Horz: 1-5=18, 2-3=5, 2-6=38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-20
Horz: 1-5=-5, 2-3=-18, 2-6=-38
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-20
Horz: 1-5=14, 2-3=3, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-20
Horz: 1-5=-3, 2-3=-14, 2-6=25
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J78GE	Roof Special Supported Gable	1	1	I51164931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:16 2022 Page 1
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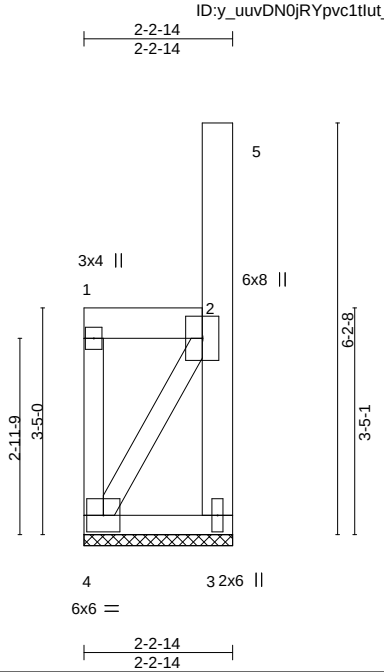

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-2-14, 3=2-2-14
Max Horz 4=-244(LC 11)
Max Uplift 4=-449(LC 11), 3=-449(LC 12)
Max Grav 4=476(LC 14), 3=476(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-694/1320
WEBS 2-4=-1165/795

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=449, 3=449.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=18, 2-3=5, 2-5=38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-5, 2-3=-18, 2-5=-38
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=14, 2-3=3, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-14, 2-5=25
   Trapezoidal Loads (plf)
      Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J79	Roof Special	1	1	I51164932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:17 2022 Page 1
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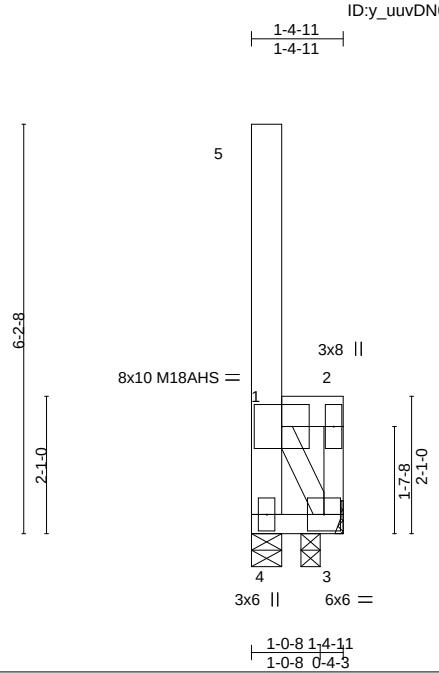

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=0-3-8, 3=0-3-8
Max Horz 4=-270(LC 13)
Max Uplift 4=-881(LC 11), 3=-881(LC 12)
Max Grav 4=896(LC 14), 3=896(LC 13), 3=59(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1218/2488, 2-3=-830/479
BOT CHORD 3-4=-522/962
WEBS 1-3=-1812/976

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=881, 3=881.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150(F=-80)-to-2=-70(F=-0)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120(F=-60)-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108(F=-60)-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108(F=-60)-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108(F=-60)-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108(F=-60)-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150(F=-80)-to-2=-70(F=-0)

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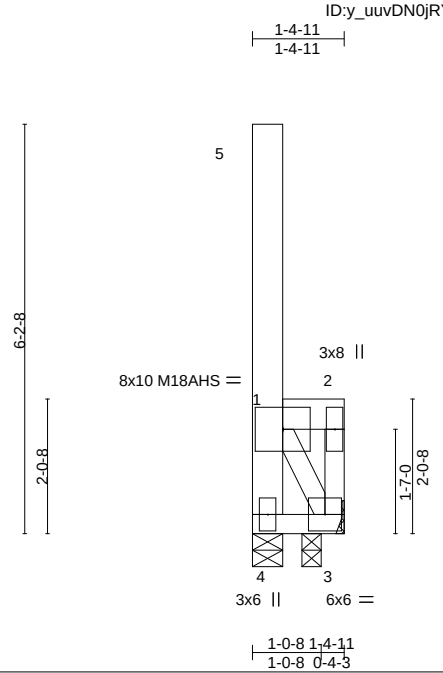
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J80	Roof Special	1	1	I51164933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:18 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-tEoEGjrMBxNGpsYy8HWwitGmCoH3hGvG6MygT2zU38l



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=0-3-8, 3=0-3-8
Max Horz 4=-271(LC 11)
Max Uplift 4=-883(LC 11), 3=-883(LC 12)
Max Grav 4=897(LC 14), 3=897(LC 13), 3=59(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1218/2493, 2-3=-840/484
BOT CHORD 3-4=-531/981
WEBS 1-3=-1819/977

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=883, 3=883.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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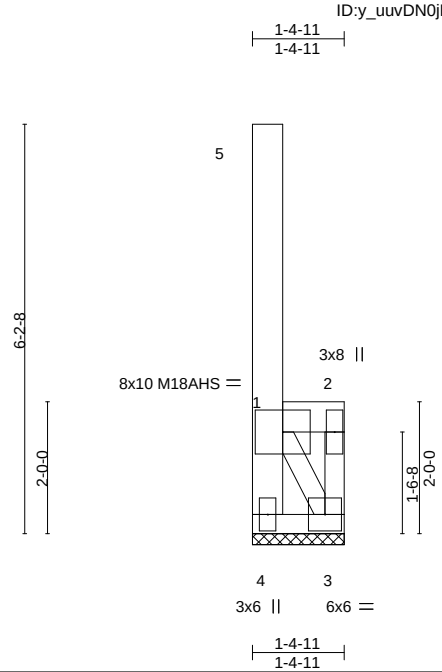
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	J80GE	Roof Special Supported Gable	1	1	I51164934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-LQMcU3r_yEV7R069i_19E5pwkBdAQjgQL0iD?UzU38k



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.

REACTIONS. (size) 4=1-4-11, 3=1-4-11
Max Horz 4=-272(LC 11)
Max Uplift 4=-884(LC 11), 3=-884(LC 12)
Max Grav 4=899(LC 14), 3=899(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1400/2510, 2-3=-850/552
BOT CHORD 3-4=-614/1017
WEBS 1-3=-1840/1118

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=884, 3=884.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 1-5=38, 2-3=5
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 1-5=-38, 2-3=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 1-5=-25, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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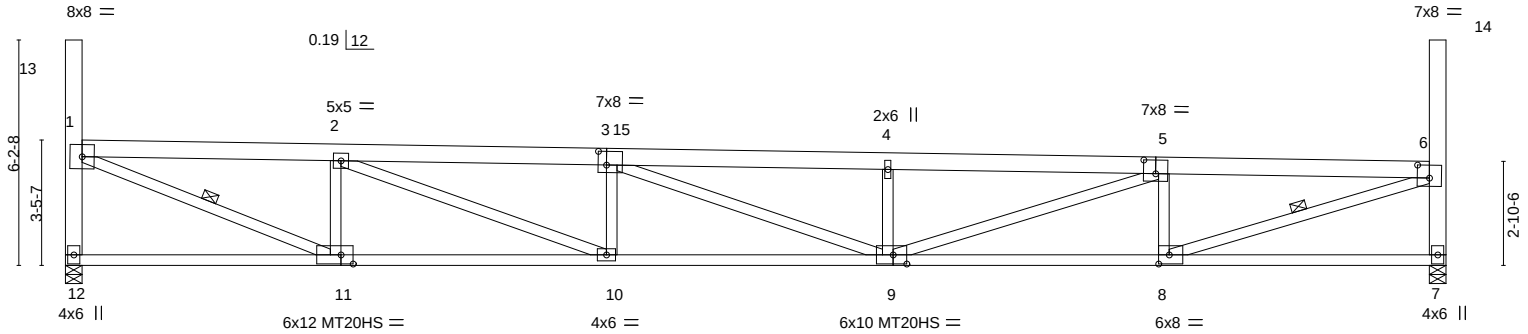
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T1	Roof Special	3	1	I51164935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:21 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-IpTNvltFUsmrgJGXqP4dJWuFv?7_uSBjoKBK4NzU38i

7-5-5	15-0-9	22-7-13	30-3-1	38-0-5
7-5-5	7-7-4	7-7-4	7-7-4	7-9-4

Scale: 3/16"=1'



7-5-5	15-0-9	22-7-13	30-3-1	38-0-5
7-5-5	7-7-4	7-7-4	7-7-4	7-9-4

Plate Offsets (X,Y)-- [3:0-2-12,0-4-8], [5:0-4-0,0-4-8], [6:0-4-0,0-4-4], [8:0-3-8,0-3-0], [9:0-4-8,0-3-0], [11:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.51	9-10	>889	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-1.02	9-10	>443	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.14	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	7-9: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	12-13,7-14: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-14 oc bracing.
WEBS	1 Row at midpt 1-11, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-363(LC 11)
Max Uplift 12=-83(LC 16), 7=-117(LC 12)
Max Grav 12=2147(LC 22), 7=2157(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2074/618, 1-2=-4128/1254, 2-3=-6228/1719, 3-4=-6553/1826, 4-5=-6521/1803, 5-6=-4748/1443, 6-7=-2077/616
BOT CHORD	11-12=-547/583, 10-11=-1496/4047, 9-10=-1978/6188, 8-9=-1255/4739
WEBS	1-11=-1262/4319, 2-11=-1519/583, 2-10=-824/2336, 3-10=-702/392, 3-9=-264/382, 4-9=-597/313, 5-9=-713/1881, 5-8=-1351/542, 6-8=-1418/4773

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=117.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60, 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39, 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67, 5=-67-to-6=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42, 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79, 5=-79-to-6=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 5=-70-to-6=-150

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Chesterfield, MO 63017

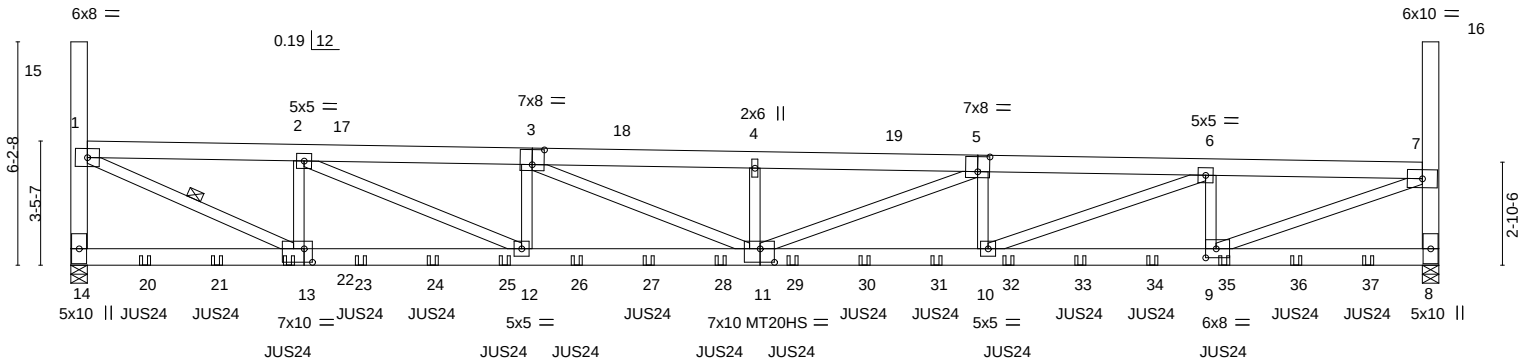
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T1G	ROOF SPECIAL GIRDER	1	2	I51164936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-PaHiC0E3Q4YaGwZIajcfXq7Ov5Muw??7i?Sw8dzU38E

6-4-1 | 12-8-2 | 19-0-3 | 25-4-3 | 31-8-4 | 38-0-5
6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 6-4-1

Scale: 3/16"=1'



6-4-1 | 12-8-2 | 19-0-3 | 25-4-3 | 31-8-4 | 38-0-5
6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 6-4-1

Plate Offsets (X,Y)-- [3:0-4-0,0-5-0], [5:0-4-0,0-5-0], [9:0-3-8,0-3-0], [11:0-4-12,0-4-8], [13:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.85	10-11	>529	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.92	10-11	>490	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.12	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 552 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15,8-16: 2x6 SP No.1, 7-9: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-11 oc bracing.
WEBS 1 Row at midpt 1-13

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-360(LC 43)
Max Uplift 14=-2680(LC 16), 8=-2757(LC 12)
Max Grav 14=4347(LC 55), 8=4549(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3947/2894, 1-2=-8172/6129, 2-3=-13108/9819, 3-4=-15304/11393, 4-5=-15287/11376, 5-6=-14138/10602, 6-7=-9366/7023, 7-8=-4116/2916
BOT CHORD 13-14=-700/739, 12-13=-6299/8139, 11-12=-10136/13274, 10-11=-10655/14281, 9-10=-6772/9460, 8-9=-320/416
WEBS 1-13=-6495/8588, 2-13=-2645/1968, 2-12=-4409/5625, 3-12=-1279/1006, 3-11=-1889/2375, 4-11=-479/256, 5-11=-1062/1235, 5-10=-861/699, 6-10=-4133/5133, 6-9=-2294/1759, 7-9=-7171/9832

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=2680, 8=2757.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

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NOTES-

12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 22-0-0 oc max. starting at 2-0-12 from the left end to 26-0-12 to connect truss(es) to back face of bottom chord.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 6-0-12 from the left end to 12-0-12 to connect truss(es) to back face of bottom chord.
15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 12-0-0 oc max. starting at 8-0-12 from the left end to 20-0-12 to connect truss(es) to back face of bottom chord.
16) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 16-0-0 oc max. starting at 14-0-12 from the left end to 30-0-12 to connect truss(es) to back face of bottom chord.
17) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 16-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
18) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 6-0-0 oc max. starting at 18-0-12 from the left end to 28-0-12 to connect truss(es) to back face of bottom chord.
19) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 24-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
20) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 32-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
21) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 34-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
22) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 36-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
23) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-161(B) 21=-161(B) 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B) 29=-161(B) 30=-161(B) 31=-161(B) 32=-161(B) 33=-161(B) 34=-161(B) 35=-446(B) 36=-161(B) 37=-161(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-17=-70, 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-135(B) 21=-135(B) 22=-135(B) 23=-135(B) 24=-135(B) 25=-135(B) 26=-135(B) 27=-135(B) 28=-135(B) 29=-135(B) 30=-135(B) 31=-135(B) 32=-135(B) 33=-135(B) 34=-135(B) 35=-349(B) 36=-135(B) 37=-135(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-17=-60, 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-135(B) 21=-135(B) 22=-135(B) 23=-135(B) 24=-135(B) 25=-135(B) 26=-135(B) 27=-135(B) 28=-135(B) 29=-135(B) 30=-135(B) 31=-135(B) 32=-135(B) 33=-135(B) 34=-135(B) 35=-349(B) 36=-135(B) 37=-135(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-17=-39, 6=-39-to-7=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-135(B) 21=-135(B) 22=-135(B) 23=-135(B) 24=-135(B) 25=-135(B) 26=-135(B) 27=-135(B) 28=-135(B) 29=-135(B) 30=-135(B) 31=-135(B) 32=-135(B) 33=-135(B) 34=-135(B) 35=-349(B) 36=-135(B) 37=-135(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-17=-67, 6=-67-to-7=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-161(B) 21=-161(B) 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B) 29=-161(B) 30=-161(B) 31=-161(B) 32=-161(B) 33=-161(B) 34=-161(B) 35=-446(B) 36=-161(B) 37=-161(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-17=-42, 6=-42-to-7=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-17=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 20=-161(B) 21=-161(B) 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B) 29=-161(B) 30=-161(B) 31=-161(B) 32=-161(B) 33=-161(B) 34=-161(B) 35=-446(B) 36=-161(B) 37=-161(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-17=-79, 6=-79-to-7=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 6-17=-55, 8-14=-20
Horz: 1-14=18, 1-15=38, 7-8=5, 7-16=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=158(B) 21=158(B) 22=159(B) 23=159(B) 24=160(B) 25=160(B) 26=161(B) 27=161(B) 28=162(B) 29=162(B) 30=162(B) 31=163(B) 32=163(B) 33=164(B) 34=164(B) 35=223(B) 36=165(B) 37=165(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-17=-55, 6=-55-to-7=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-48, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=158(B) 21=158(B) 22=159(B) 23=159(B) 24=160(B) 25=160(B) 26=161(B) 27=161(B) 28=162(B) 29=162(B) 30=162(B) 31=163(B) 32=163(B) 33=164(B) 34=164(B) 35=223(B) 36=165(B) 37=165(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-17=-48, 6=-48-to-7=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-55, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=158(B) 21=158(B) 22=159(B) 23=159(B) 24=160(B) 25=160(B) 26=161(B) 27=161(B) 28=162(B) 29=162(B) 30=162(B) 31=163(B) 32=163(B) 33=164(B) 34=164(B) 35=223(B) 36=165(B) 37=165(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-17=-55, 6=-55-to-7=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-48, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=158(B) 21=158(B) 22=159(B) 23=159(B) 24=160(B) 25=160(B) 26=161(B) 27=161(B) 28=162(B) 29=162(B) 30=162(B) 31=163(B) 32=163(B) 33=164(B) 34=164(B) 35=223(B) 36=165(B) 37=165(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-17=-48, 6=-48-to-7=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-17=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 20=-161(B) 21=-161(B) 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B) 29=-161(B) 30=-161(B) 31=-161(B) 32=-161(B) 33=-161(B) 34=-161(B) 35=-446(B) 36=-161(B) 37=-161(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-17=-70, 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-55, 8-14=-20
Horz: 1-14=18, 1-15=38, 7-8=5, 7-16=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=-297(B) 21=-297(B) 22=-298(B) 23=-298(B) 24=-299(B) 25=-299(B) 26=-300(B) 27=-300(B) 28=-300(B) 29=-301(B) 30=-301(B) 31=-302(B) 32=-302(B) 33=-302(B) 34=-303(B) 35=-536(B) 36=-304(B) 37=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-17=-55, 6=-55-to-7=-115

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-48, 8-14=-20
Horz: 1-14=-5, 1-15=-25, 7-8=-18, 7-16=-38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=-297(B) 21=-297(B) 22=-298(B) 23=-298(B) 24=-299(B) 25=-299(B) 26=-300(B) 27=-300(B) 28=-300(B) 29=-301(B) 30=-301(B) 31=-302(B) 32=-302(B) 33=-302(B) 34=-303(B) 35=-536(B) 36=-304(B) 37=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-17=-48, 6=-48-to-7=-108

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-17=-55, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3, 7-16=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 20=-297(B) 21=-297(B) 22=-298(B) 23=-298(B) 24=-299(B) 25=-299(B) 26=-300(B) 27=-300(B) 28=-300(B) 29=-301(B) 30=-301(B) 31=-302(B) 32=-302(B) 33=-302(B) 34=-303(B) 35=-536(B) 36=-304(B) 37=-304(B)

Continued on page 4

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T1G	ROOF SPECIAL GIRDER	1	2	I51164936 Job Reference (optional)

LOAD CASE(S) Standard

Trapezoidal Loads (plf)

Vert: 1=-115-to-17=-55, 6=-55-to-7=-115

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 6-17=-48, 8-14=-20

Horz: 1-14=-3, 1-15=-25, 7-8=-14, 7-16=25

Drag: 1-7=0

Concentrated Loads (lb)

Vert: 20=-297(B) 21=-297(B) 22=-298(B) 23=-298(B) 24=-299(B) 25=-299(B) 26=-300(B) 27=-300(B) 28=-300(B) 29=-301(B) 30=-301(B) 31=-302(B) 32=-302(B) 33=-302(B) 34=-303(B) 35=-536(B) 36=-304(B) 37=-304(B)

Trapezoidal Loads (plf)

Vert: 1=-108-to-17=-48, 6=-48-to-7=-108

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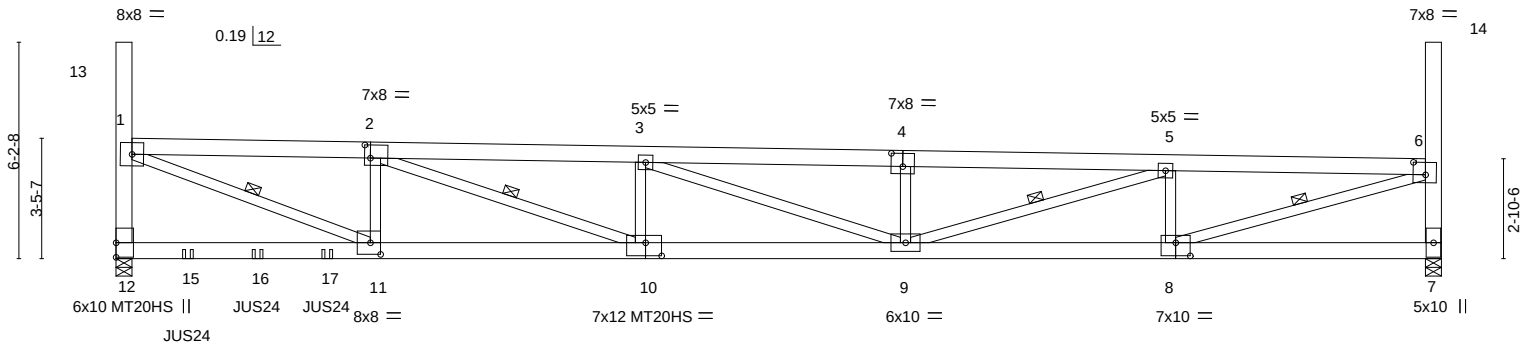
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T1GA	Roof Special Girder	1	1	I51164937
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:53 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-MzPTdhGJyhoIWEjhi7e7cFDjvv3eOy6Q9Jx0CWzU38C

7-5-5	15-0-9	22-7-13	30-3-1	38-0-5
7-5-5	7-7-4	7-7-4	7-7-4	7-9-4

Scale = 1:66.1



7-5-5	15-0-9	22-7-13	30-3-1	38-0-5
7-5-5	7-7-4	7-7-4	7-7-4	7-9-4

Plate Offsets (X,Y)-- [2:0-2-0,0-4-8], [4:0-4-0,0-4-8], [6:0-4-4,0-4-4], [8:0-5-0,0-4-8], [10:0-5-8,0-4-8], [11:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.51	9-10	>878	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.00	9-10	>450	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 272 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13,7-14: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-6 oc bracing.
WEBS	1 Row at midpt 1-11, 2-10, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-360(LC 11)
Max Uplift 12=-1271(LC 16), 7=-252(LC 12)
Max Grav 12=2589(LC 55), 7=2177(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2143/1191, 1-2=-4587/2845, 2-3=-6575/2823, 3-4=-6834/2642, 4-5=-6818/2628, 5-6=-4937/1872, 6-7=-2072/741
BOT CHORD	11-12=-748/771, 10-11=-3097/4640, 9-10=-3083/6533, 8-9=-1683/4928, 7-8=-143/253
WEBS	1-11=-2775/4564, 2-11=-1491/816, 2-10=-1442/2387, 3-10=-691/471, 3-9=-553/595, 4-9=-576/310, 5-9=-1130/1984, 5-8=-1372/676, 6-8=-1852/4907

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1271, 7=252.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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NOTES-

15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-68(F) 16=-68(F) 17=-68(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70, 5=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-58(F) 16=-58(F) 17=-58(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60, 5=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-58(F) 16=-58(F) 17=-58(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39, 5=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-58(F) 16=-58(F) 17=-58(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67, 5=-67-to-6=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-68(F) 16=-68(F) 17=-68(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42, 5=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-68(F) 16=-68(F) 17=-68(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79, 5=-79-to-6=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 6-7=5, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=313(F) 16=314(F) 17=315(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55, 5=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=313(F) 16=314(F) 17=315(F)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48, 5=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=313(F) 16=314(F) 17=315(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55, 5=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=313(F) 16=314(F) 17=315(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-68(F) 16=-68(F) 17=-68(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 5=-70-to-6=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-356(F) 16=-357(F) 17=-358(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 5=-55-to-6=-115

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-25, 6-7=-18, 6-14=-38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-356(F) 16=-357(F) 17=-358(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 5=-48-to-6=-108

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-356(F) 16=-357(F) 17=-358(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 5=-55-to-6=-115

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-356(F) 16=-357(F) 17=-358(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 5=-48-to-6=-108

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Chesterfield, MO 63017

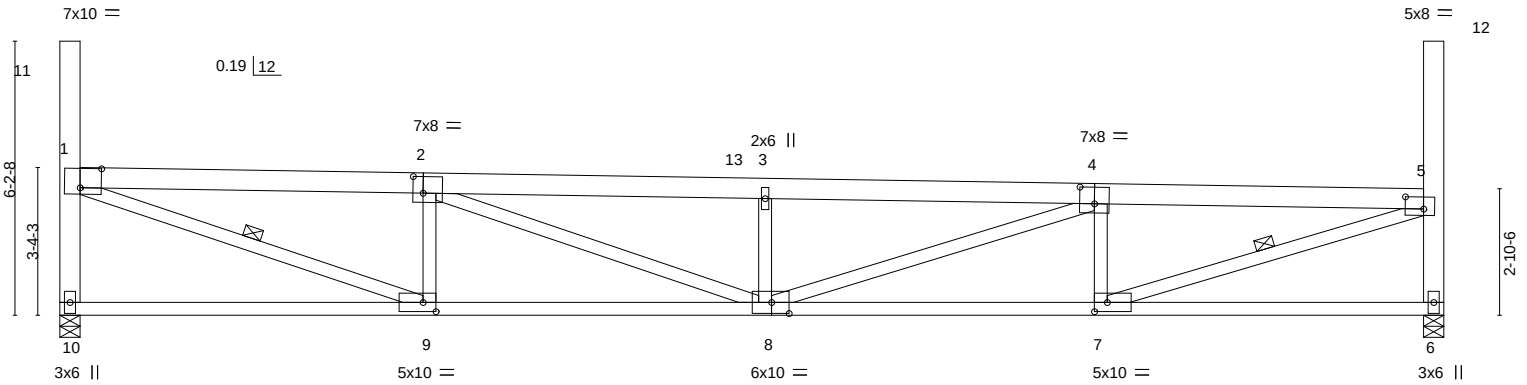
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T2	Roof Special	1	1	I51164938
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:54 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-q9zrq1Gxi?w97OItFr9M9TlqSIQD7N8ZOzgakyzU38B

8-4-8 | 15-11-12 | 23-7-0 | 31-4-4
8-4-8 | 7-7-4 | 7-7-4 | 7-9-4

Scale = 1:52.2



8-4-8 | 15-11-12 | 23-7-0 | 31-4-4
8-4-8 | 7-7-4 | 7-7-4 | 7-9-4

Plate Offsets (X,Y)-- [1:0-5-12,0-5-4], [2:0-2-12,0-4-8], [4:0-4-0,0-4-8], [5:0-5-0,0-3-4], [7:0-3-8,0-2-8], [8:0-4-12,0-3-0], [9:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.31	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.60	8-9	>614	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11,6-12: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-10 oc bracing.
WEBS 1 Row at midpt 1-9, 5-7

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-365(LC 11)
Max Uplift 10=-68(LC 16), 6=-110(LC 12)
Max Grav 10=2097(LC 22), 6=1567(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-2013/634, 1-2=-3886/1279, 2-3=-4713/1496, 3-4=-4685/1472, 4-5=-3592/1334, 5-6=-1489/627
BOT CHORD 9-10=-613/626, 8-9=-1553/3818, 7-8=-1240/3640
WEBS 1-9=-1360/3892, 2-9=-1181/573, 2-8=-623/1101, 3-8=-539/341, 4-8=-536/1103, 4-7=-990/532, 5-7=-1377/3620

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-8, Corner(3) 16-1-8 to 31-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 6=110.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-230-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-180-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-186-to-2=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-202-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-238-to-2=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 6-10=-20
Horz: 1-10=18, 1-11=38, 5-6=5, 5-12=25
Drag: 1-5=0
Trapezoidal Loads (plf)
Vert: 1=-175-to-2=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 6-10=-20
Horz: 1-10=-5, 1-11=-25, 5-6=-18, 5-12=-38
Drag: 1-5=0
Trapezoidal Loads (plf)
Vert: 1=-168-to-2=-47

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-55, 6-10=-20
Horz: 1-10=14, 1-11=-25, 5-6=3, 5-12=25
Drag: 1-5=0
Trapezoidal Loads (plf)
Vert: 1=-175-to-2=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-48, 6-10=-20
Horz: 1-10=-3, 1-11=-25, 5-6=-14, 5-12=25
Drag: 1-5=0
Trapezoidal Loads (plf)
Vert: 1=-168-to-2=-47

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-230-to-2=-70

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T2A	Roof Special	1	1	I51164939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:13 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-mpc1pXVsEqJSvJFXtK?pQT247zvf4zxMmQn4uMzU37u

8-4-8 | 15-11-12 | 23-7-0 | 31-4-4
8-4-8 | 7-7-4 | 7-7-4 | 7-9-4

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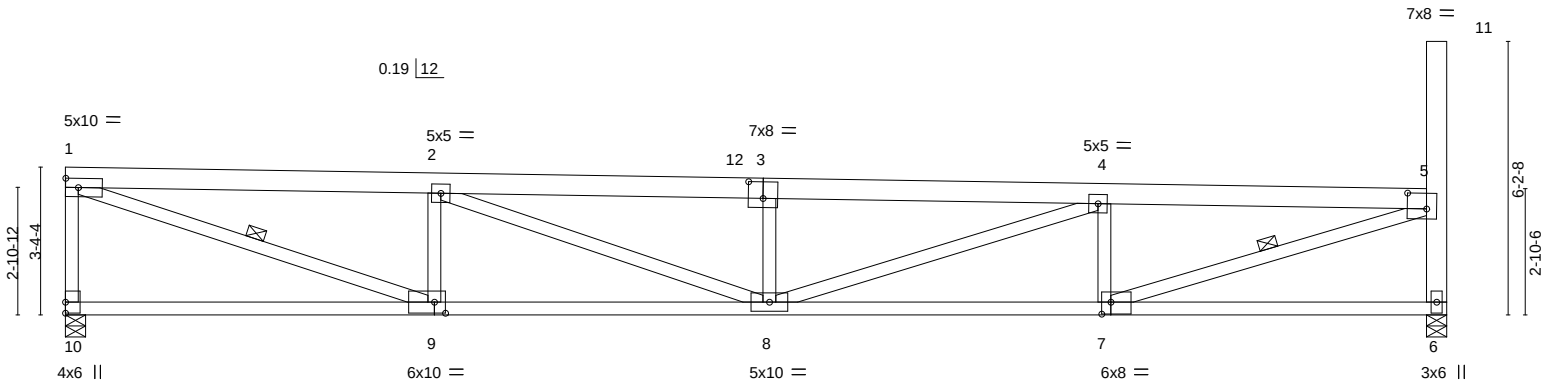

8-4-8 | 15-11-12 | 23-7-0 | 31-4-4
8-4-8 | 7-7-4 | 7-7-4 | 7-9-4

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [5:0-5-4,0-4-4], [7:0-2-8,0-3-4], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.31	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.61	7-8	>614	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 6-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-1 oc bracing.
WEBS	1 Row at midpt 1-9, 5-7

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-270(LC 11)
Max Uplift 10=-83(LC 16), 6=-95(LC 12)
Max Grav 10=1841(LC 22), 6=1823(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1759/598, 1-2=-3742/1239, 2-3=-4727/1691, 3-4=-4701/1668, 4-5=-3809/1452, 5-6=-1745/605
BOT CHORD 9-10=-361/307, 8-9=-1391/3734, 7-8=-1179/3800
WEBS 1-9=-1331/3866, 2-9=-1155/562, 2-8=-491/1055, 3-8=-526/337, 4-8=-490/946, 4-7=-1041/516, 5-7=-1326/3797

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-1-8, Corner(3) 16-1-8 to 31-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 4=-70-to-5=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60, 4=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39, 4=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66, 4=-66-to-5=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42, 4=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78, 4=-78-to-5=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-4=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55, 4=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-4=-48, 6-10=-20
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48, 4=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-4=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55, 4=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-4=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48, 4=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70, 4=-70-to-5=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T3	Roof Special	6	1	I51164940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:14 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-E?AP1tWU?8RJXTqjQ2W2zhaJiMGgpR0W_4WdRozU37t

8-4-8 (8-4-8) | 15-11-12 (7-7-4) | 23-7-0 (7-7-4) | 31-2-4 (7-7-4)

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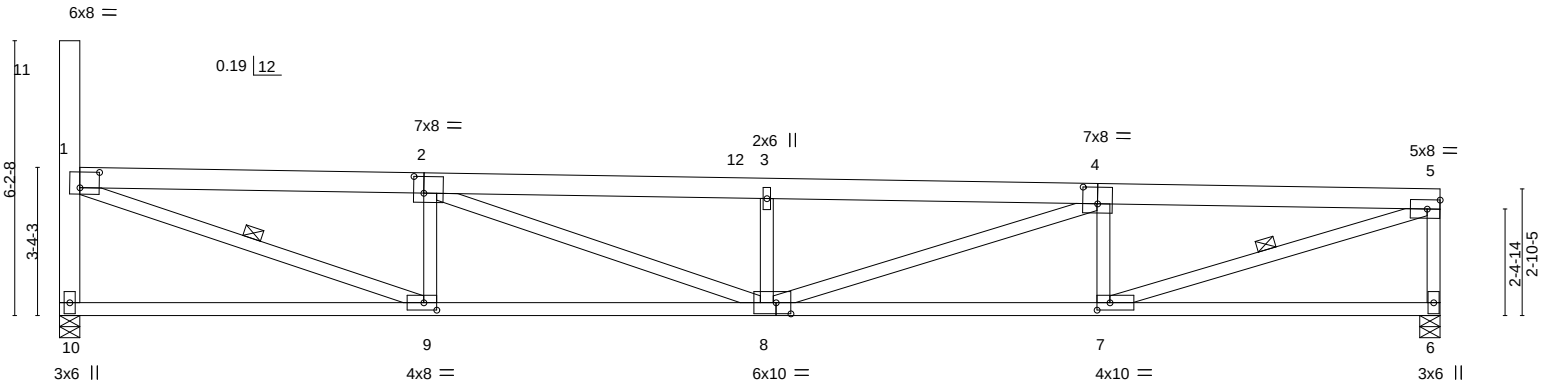

8-4-8 (8-4-8) | 15-11-12 (7-7-4) | 23-7-0 (7-7-4) | 31-2-4 (7-7-4)

Plate Offsets (X,Y)-- [1:0-5-4,0-4-4], [2:0-2-12,0-4-8], [4:0-4-0,0-4-8], [7:0-3-8,0-2-0], [8:0-4-0,0-3-0], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.28	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.57	8-9	>648	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 1 Row at midpt 1-9, 5-7

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-245(LC 11)
Max Uplift 10=-51(LC 16), 6=-93(LC 12)
Max Grav 10=1800(LC 22), 6=1536(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1717/610, 1-2=-3608/1392, 2-3=-4530/1668, 3-4=-4531/1661, 4-5=-3486/1240, 5-6=-1461/586
BOT CHORD 9-10=-337/441, 8-9=-1386/3546, 7-8=-1306/3531
WEBS 1-9=-1284/3650, 2-9=-1098/546, 2-8=-528/1073, 3-8=-555/337, 4-8=-411/1053, 4-7=-985/517, 5-7=-1303/3581

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-0-8, Corner(3) 16-0-8 to 31-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=18, 1-11=38, 5-6=5
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-5, 1-11=-38, 5-6=-18
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-47
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=14, 1-11=-25, 5-6=3
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-3, 1-11=-25, 5-6=-14
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-47
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

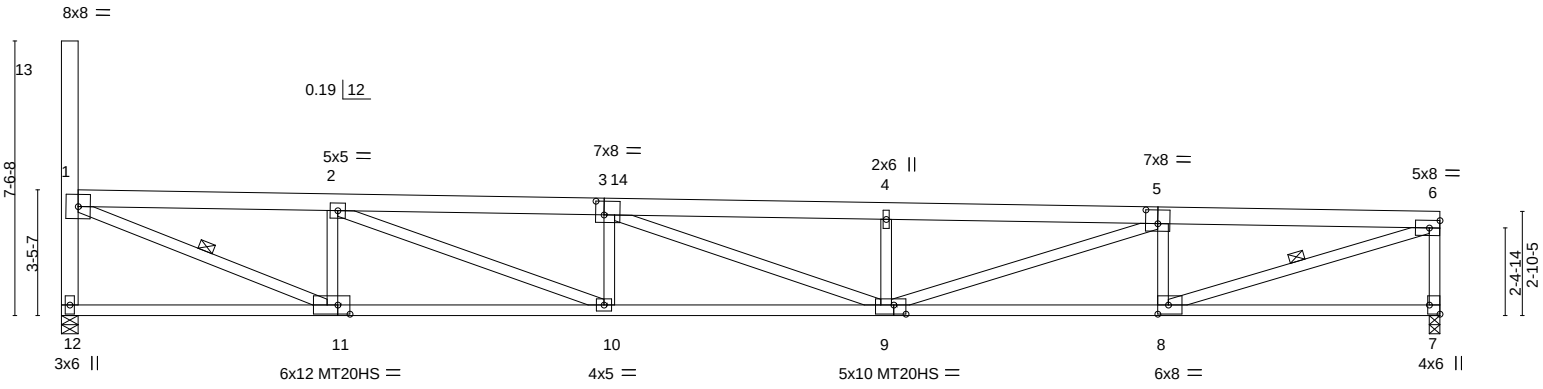
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T4	Roof Special	6	1	I51164941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:24 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ywnB7IemeDiuk?ae08iONo?1_OeK9x?_Iex9nDzU37j

7-5-5	15-0-9	22-7-13	30-3-1	37-10-5
7-5-5	7-7-4	7-7-4	7-7-4	7-7-4

Scale = 1:63.3



7-5-5	15-0-9	22-7-13	30-3-1	37-10-5
7-5-5	7-7-4	7-7-4	7-7-4	7-7-4

Plate Offsets (X,Y)-- [3:0-2-12,0-4-8], [5:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-8,0-3-0], [9:0-4-0,0-3-0], [11:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.48	9-10	>936	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.98	9-10	>457	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.14	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 235 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	7-9: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-5 oc bracing.
WEBS	1 Row at midpt 1-11, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-311(LC 13)
Max Uplift 12=-61(LC 16), 7=-115(LC 12)
Max Grav 12=2123(LC 22), 7=1871(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2049/618, 1-2=-4068/1454, 2-3=-6100/1968, 3-4=-6352/1959, 4-5=-6352/1952, 5-6=-4428/1322, 6-7=-1796/597
BOT CHORD	11-12=-430/593, 10-11=-1441/3988, 9-10=-1972/6061, 8-9=-1390/4494
WEBS	1-11=-1219/4255, 2-11=-1494/565, 2-10=-812/2261, 3-10=-677/387, 3-9=-228/311, 4-9=-599/301, 5-9=-629/1962, 5-8=-1298/544, 6-8=-1393/4568

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-8-9, Corner(3) 22-8-9 to 37-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=115.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

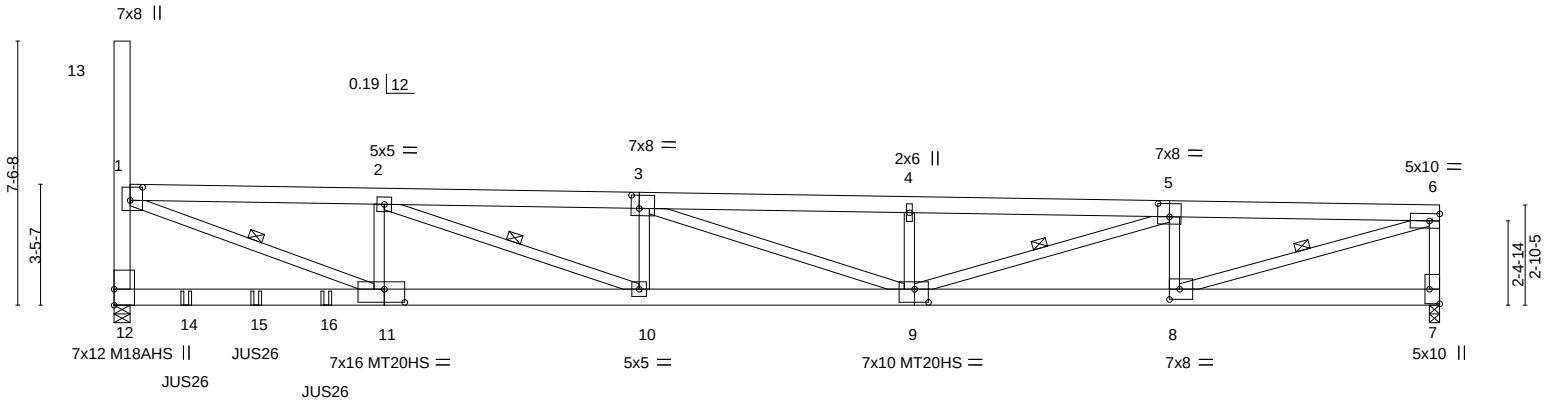
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T4G	Roof Special Girder	1	1	I51164942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-fsOzDjl1IHyUwXLZbEtknvPkiQ4BVU2SbBMh8ezU37Z

7-6-14	15-1-12	22-8-9	30-3-7	37-10-5
7-6-14	7-6-14	7-6-14	7-6-14	7-6-14

Scale = 1:65.8



7-6-14	15-1-12	22-8-9	30-3-7	37-10-5
7-6-14	7-6-14	7-6-14	7-6-14	7-6-14

Plate Offsets (X,Y)-- [1:0-4-8,0-4-4], [3:0-2-12,0-4-8], [5:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-8,0-3-8], [9:0-4-12,0-4-8], [11:0-7-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.58	9-10	>781	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.94	9-10	>477	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.09	7	n/a	n/a	M18AHS	186/179
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 265 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E *Except*
	7-9: 2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-12 oc bracing.
WEBS	1 Row at midpt 1-11, 2-10, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-308(LC 45)
Max Uplift 12=-1893(LC 16), 7=-323(LC 12)
Max Grav 12=3114(LC 55), 7=1900(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2241/1476, 1-2=-5447/3937, 2-3=-6503/3638, 3-4=-6663/3181, 4-5=-6631/3159, 5-6=-4617/1954, 6-7=-1809/793
BOT CHORD	11-12=-750/893, 10-11=-3940/5416, 9-10=-3647/6464, 8-9=-2033/4687
WEBS	1-11=-3578/5202, 2-11=-1439/931, 2-10=-1720/2496, 3-10=-648/507, 3-9=-708/744, 4-9=-588/307, 5-9=-1224/2057, 5-8=-1327/747, 6-8=-2030/4735

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-8-9, Corner(3) 22-8-9 to 37-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1893, 7=323.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-93(B) 15=-93(B) 16=-93(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-77(B) 15=-77(B) 16=-77(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-77(B) 15=-77(B) 16=-77(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-77(B) 15=-77(B) 16=-77(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-93(B) 15=-93(B) 16=-93(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-93(B) 15=-93(B) 16=-93(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 6-7=5
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 14=478(B) 15=479(B) 16=480(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-38, 6-7=-18
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 14=478(B) 15=479(B) 16=480(B)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 6-7=3
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 14=478(B) 15=479(B) 16=480(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-48, 7-12=-20
   Horz: 1-12=-3, 1-13=-25, 6-7=-14
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 14=478(B) 15=479(B) 16=480(B)

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 14=-93(B) 15=-93(B) 16=-93(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 14=-550(B) 15=-551(B) 16=-551(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 14=-550(B) 15=-551(B) 16=-551(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 14=-550(B) 15=-551(B) 16=-551(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 14=-550(B) 15=-551(B) 16=-551(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

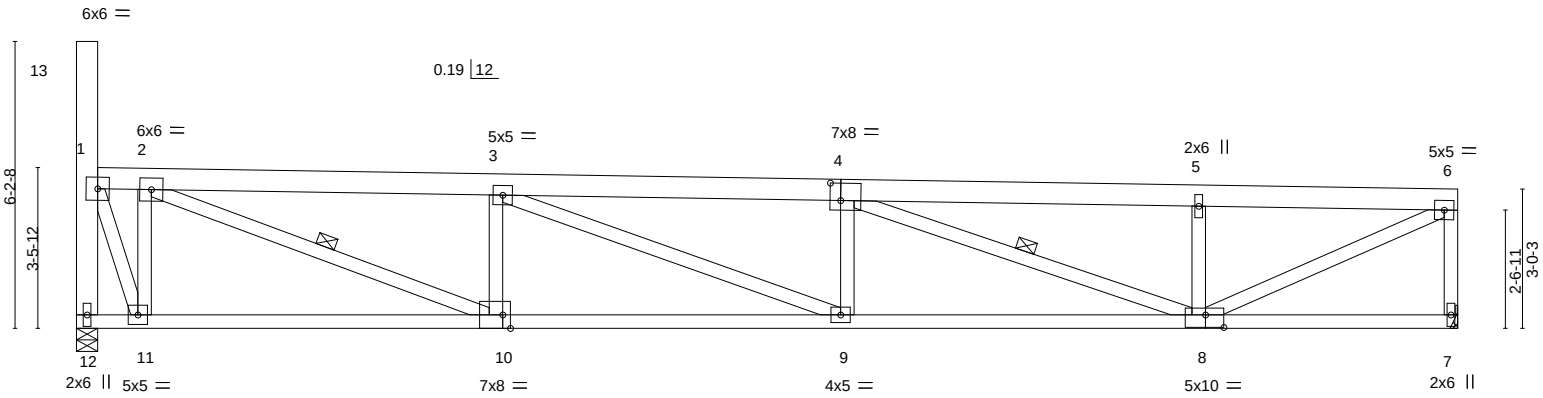
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T5	Roof Special	4	1	I51164943
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:35 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-72xLR2mf3b4LYhwl9yPzJ6yzZqPEE_Vcpr6Fg4zU37Y

1-5-11	9-0-15	16-8-3	24-3-7	29-10-11
1-5-11	7-7-4	7-7-4	7-7-4	5-7-4

Scale = 1:49.9



1-5-11	9-0-15	16-8-3	24-3-7	29-10-11
1-5-11	7-7-4	7-7-4	7-7-4	5-7-4

Plate Offsets (X,Y)-- [4:0-2-12,0-4-8], [8:0-4-12,0-3-4], [10:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.23	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.47	9-10	>756	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-9 oc bracing.
WEBS	1 Row at midpt 2-10, 4-8

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-243(LC 11)
Max Uplift 12=-48(LC 16), 7=-91(LC 12)
Max Grav 12=1759(LC 22), 7=1478(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1774/526, 1-2=-864/521, 2-3=-3461/1355, 3-4=-3987/1514, 4-5=-2539/939, 5-6=-2506/914, 6-7=-1433/571
BOT CHORD 11-12=-294/412, 10-11=-538/858, 9-10=-1359/3411, 8-9=-1537/3979
WEBS 1-11=-656/2125, 2-11=-1854/731, 2-10=-1085/2795, 3-10=-885/496, 3-9=-397/680, 4-8=-1537/595, 5-8=-569/347, 6-8=-1036/2761

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20

April 5,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-61

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-98-to-3=-40

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-3=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-44

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-3=-80

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-3=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-3=-49

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-3=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-3=-49

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

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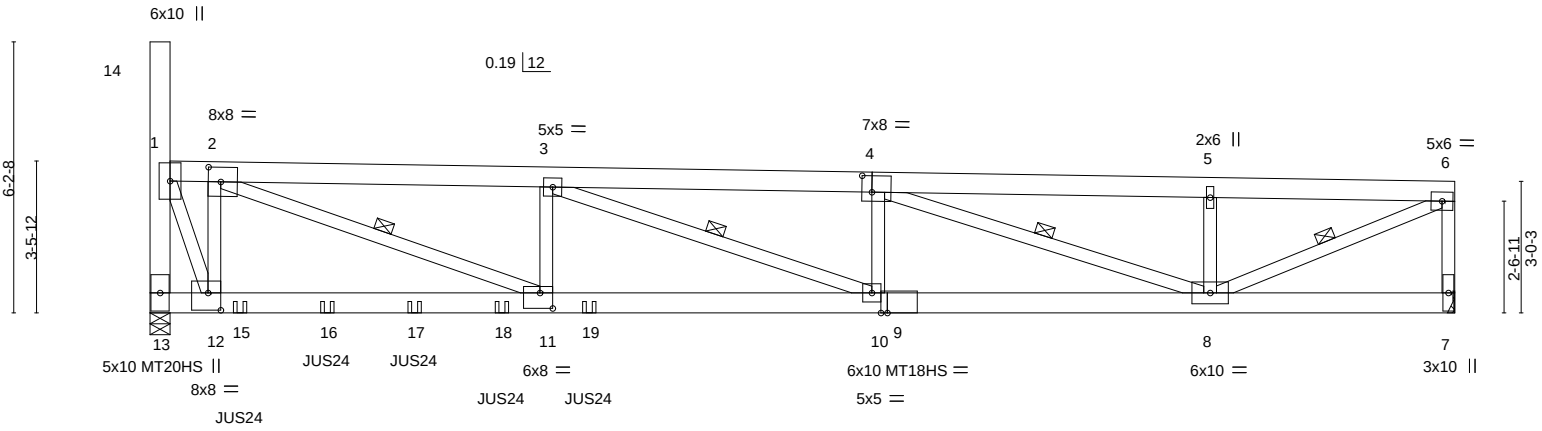
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T5G	Roof Special Girder	1	1	I51164944
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-I96VlpvZTzTnNNGtlm5YGRvp1G7rJteDL3GKZxzU37N

1-5-11 | 9-0-15 | 16-8-3 | 24-3-7 | 29-10-11
1-5-11 | 7-7-4 | 7-7-4 | 7-7-4 | 5-7-4

Scale = 1:52.8



1-5-11 | 9-0-15 | 16-8-3 | 24-3-7 | 29-10-11
1-5-11 | 7-7-4 | 7-7-4 | 7-7-4 | 5-7-4

Plate Offsets (X,Y)-- [2:0-3-7,0-4-0], [4:0-2-12,0-4-8], [9:0-1-12,0-0-0], [11:0-3-8,0-4-4], [12:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.45	11-12	>783	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.48	11-12	>731	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.07	7	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 13-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-6-13 oc bracing.
WEBS	1 Row at midpt 2-11, 3-10, 4-8, 6-8

REACTIONS. (size) 13=0-5-8, 7=Mechanical
Max Horz 13=-240(LC 11)
Max Uplift 13=-1740(LC 16), 7=-508(LC 12)
Max Grav 13=2807(LC 55), 7=1576(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-3453/2987, 1-2=-1756/1567, 2-3=-5409/4380, 3-4=-4902/3492, 4-5=-2834/1835, 5-6=-2832/1828, 6-7=-1519/986
BOT CHORD	12-13=-388/498, 11-12=-1586/1767, 10-11=-4403/5418, 8-10=-3531/4926
WEBS	1-12=-3147/3762, 2-12=-1983/1340, 2-11=-3204/3995, 3-11=-937/921, 3-10=-1571/1707, 4-10=-404/600, 4-8=-2244/1761, 5-8=-558/346, 6-8=-2016/3076

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=1740, 7=508.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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Chesterfield, MO 63017

NOTES-

15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
16) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 10-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
17) Fill all nail holes where hanger is in contact with lumber.
18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-70, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-100(F) 16=-100(F) 17=-100(F) 18=-100(F) 19=-100(F)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-3=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-60, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-83(F) 16=-83(F) 17=-83(F) 18=-83(F) 19=-83(F)
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-3=-61
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-39, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-83(F) 16=-83(F) 17=-83(F) 18=-83(F) 19=-83(F)
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-3=-40
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-66, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-83(F) 16=-83(F) 17=-83(F) 18=-83(F) 19=-83(F)
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-3=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-42, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-100(F) 16=-100(F) 17=-100(F) 18=-100(F) 19=-100(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-44
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-78, 7-13=-20
   Concentrated Loads (lb)
   Vert: 15=-100(F) 16=-100(F) 17=-100(F) 18=-100(F) 19=-100(F)
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-3=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-6=-55, 7-13=-20
   Horz: 1-13=18, 1-14=38, 6-7=5
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=281(F) 16=282(F) 17=283(F) 18=284(F) 19=284(F)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-3=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-6=-48, 7-13=-20
   Horz: 1-13=-5, 1-14=-38, 6-7=-18
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=281(F) 16=282(F) 17=283(F) 18=284(F) 19=284(F)
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-3=-49
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-6=-55, 7-13=-20
   Horz: 1-13=14, 1-14=-25, 6-7=3
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=281(F) 16=282(F) 17=283(F) 18=284(F) 19=284(F)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-3=-57

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-48, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=281(F) 16=282(F) 17=283(F) 18=284(F) 19=284(F)
Trapezoidal Loads (plf)
Vert: 1=-106-to-3=-49

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-13=-20
Concentrated Loads (lb)
Vert: 15=-100(F) 16=-100(F) 17=-100(F) 18=-100(F) 19=-100(F)
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-55, 7-13=-20
Horz: 1-13=18, 1-14=38, 6-7=5
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-360(F) 16=-360(F) 17=-361(F) 18=-362(F) 19=-363(F)
Trapezoidal Loads (plf)
Vert: 1=-114-to-3=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-48, 7-13=-20
Horz: 1-13=-5, 1-14=-38, 6-7=-18
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-360(F) 16=-360(F) 17=-361(F) 18=-362(F) 19=-363(F)
Trapezoidal Loads (plf)
Vert: 1=-106-to-3=-49

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-55, 7-13=-20
Horz: 1-13=14, 1-14=-25, 6-7=3
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-360(F) 16=-360(F) 17=-361(F) 18=-362(F) 19=-363(F)
Trapezoidal Loads (plf)
Vert: 1=-114-to-3=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-48, 7-13=-20
Horz: 1-13=-3, 1-14=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-360(F) 16=-360(F) 17=-361(F) 18=-362(F) 19=-363(F)
Trapezoidal Loads (plf)
Vert: 1=-106-to-3=-49

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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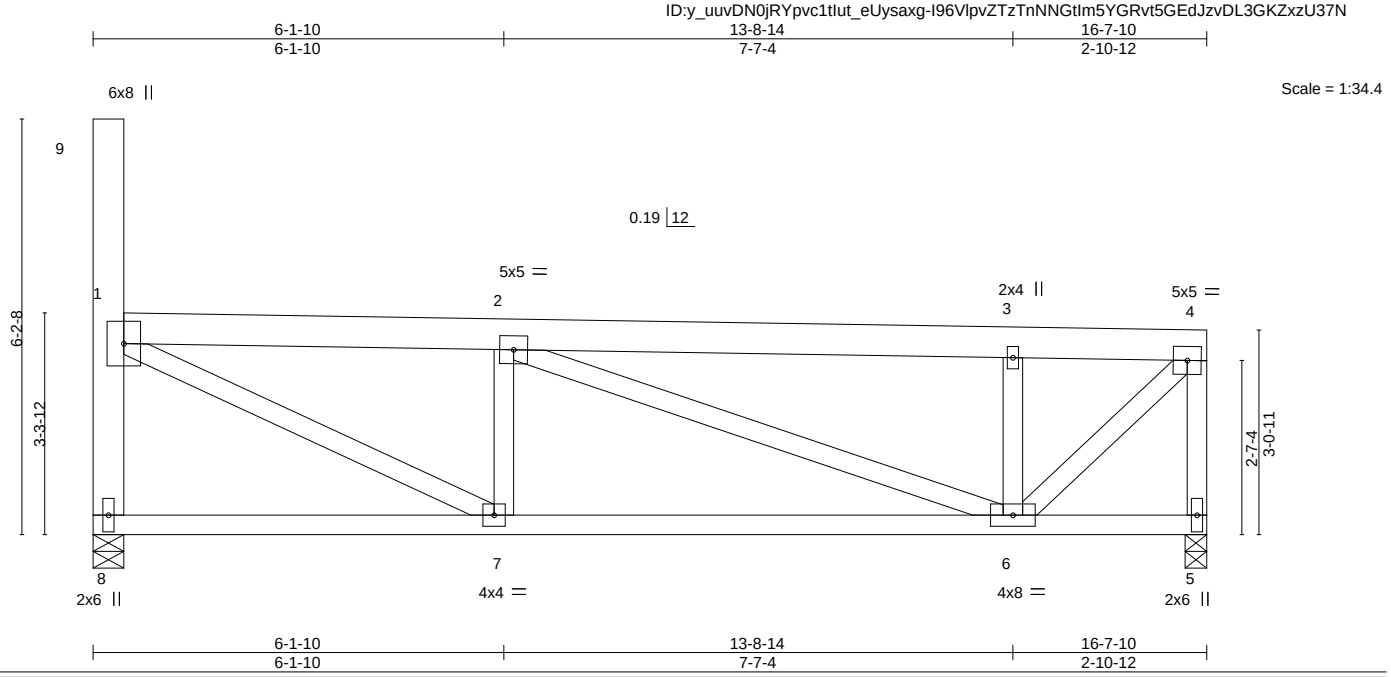
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T6	Roof Special	6	1	I51164945
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-I96VlpvZTzTnNNGtIm5YGRvt5GEdJzvDL3GKZxzU37N



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.12	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-2 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-14
Max Horz 8=-246(LC 11)
Max Uplift 8=-2(LC 16), 5=-85(LC 12)
Max Grav 8=988(LC 22), 5=809(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-943/559, 1-2=-1280/854, 2-3=-816/478, 3-4=-811/469, 4-5=-808/492
BOT CHORD 7-8=-380/526, 6-7=-894/1275
WEBS 1-7=-809/1320, 2-7=-438/454, 2-6=-498/393, 3-6=-489/431, 4-6=-695/1134

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-60, 5-8=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-64, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-2=-64

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-76, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-2=-76

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-55, 5-8=-20
Horz: 1-8=18, 1-9=38, 4-5=5
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-48, 5-8=-20
Horz: 1-8=-5, 1-9=-38, 4-5=-18
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-55, 5-8=-20
Horz: 1-8=14, 1-9=-25, 4-5=3
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-48, 5-8=-20
Horz: 1-8=-3, 1-9=-25, 4-5=-14
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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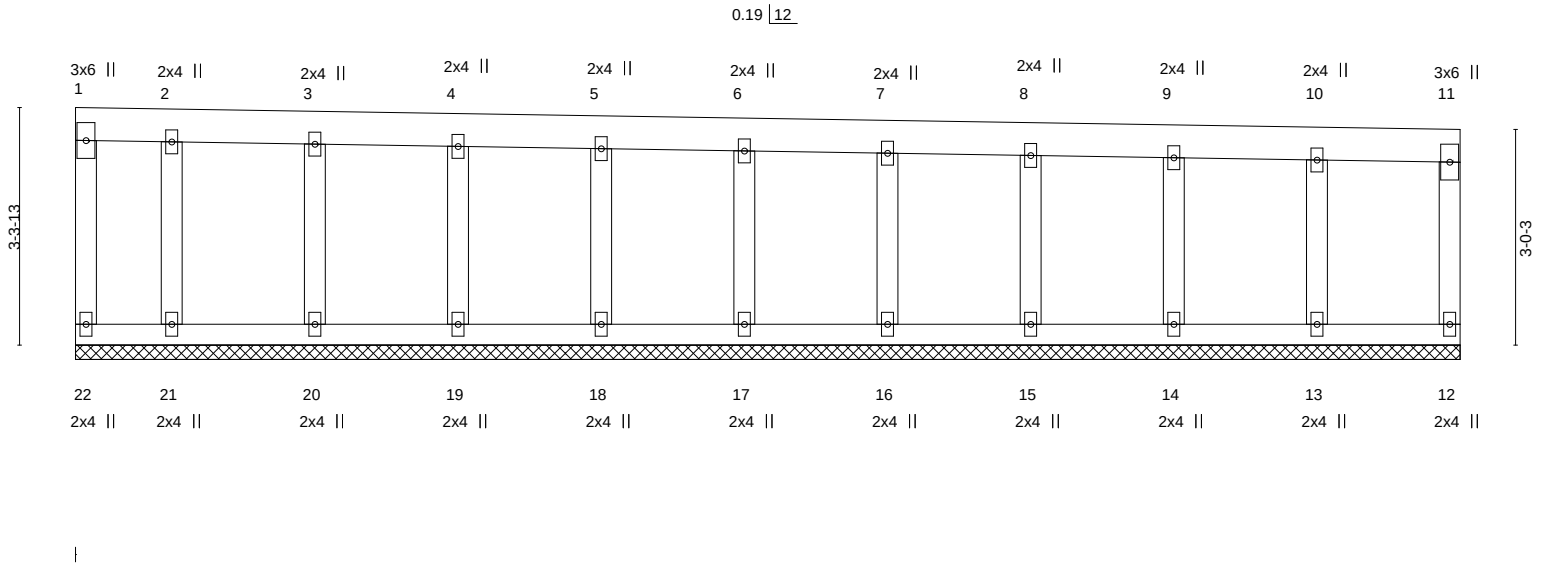
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T6GE	GABLE	1	1	I51164946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:57 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-UHHf2a1StLsDB4c_Sao8Clso9i5wO43rtGRPSozU37C

19-4-2
19-4-2

Scale: 3/8"=1'



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 114 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-4-2.
(lb) - Max Horz 22=-89(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 22, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
Max Grav All reactions 250 lb or less at joint(s) 22, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T7	Roof Special	11	1	I51164947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-yTq1Gw25ef_4pDBA?HJNlzPvc5Ip7OJ_6wBy_FzU37B

1-11-8	9-6-12	17-2-0	24-9-4	27-8-0
1-11-8	7-7-4	7-7-4	7-7-4	2-10-12

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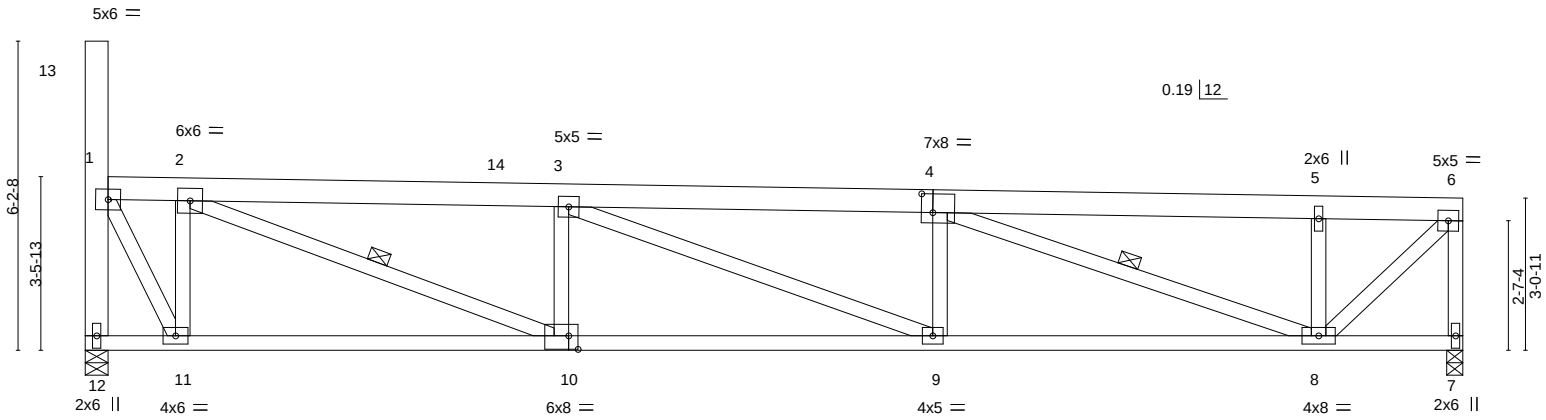

1-11-8	9-6-12	17-2-0	24-9-4	27-8-0
1-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Plate Offsets (X,Y)-- [4:0-2-12,0-4-8], [10:0-2-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.17	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.37	9-10	>892	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 181 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-4-8 oc bracing.
WEBS	1 Row at midpt 2-10, 4-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-242(LC 11)
Max Uplift 12=-41(LC 16), 7=-88(LC 12)
Max Grav 12=1609(LC 22), 7=1358(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1627/546, 1-2=-997/589, 2-3=-3115/1320, 3-4=-3248/1326, 4-5=-1392/541, 5-6=-1387/534, 6-7=-1357/542
BOT CHORD	11-12=-292/440, 10-11=-611/991, 9-10=-1329/3075, 8-9=-1356/3247
WEBS	1-11=-656/1978, 2-11=-1598/672, 2-10=-1001/2280, 3-10=-692/465, 3-9=-254/259, 4-8=-1982/823, 5-8=-532/337, 6-8=-776/1930

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-14=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-118-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-97-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-124-to-14=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-77, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-155-to-14=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-55, 7-12=-20
      Horz: 1-12=18, 1-13=38, 6-7=5
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 1=-114-to-14=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-48, 7-12=-20
      Horz: 1-12=-5, 1-13=-38, 6-7=-18
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 1=-106-to-14=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-55, 7-12=-20
      Horz: 1-12=14, 1-13=-25, 6-7=3
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 1=-114-to-14=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-48, 7-12=-20
      Horz: 1-12=-3, 1-13=-25, 6-7=-14
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 1=-106-to-14=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-14=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

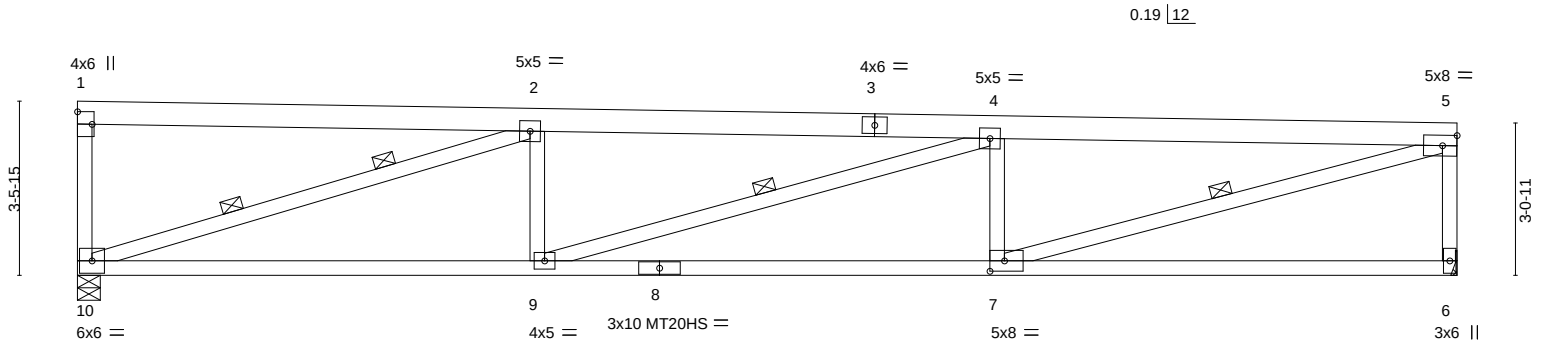
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T7A	Roof Special	2	1	I51164948
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-usyohc4LAGEo2XLZ7iLrqOUCMvvnbCNHZEg337zU379

9-2-11 / 9-2-11 | 18-5-7 / 9-2-11 | 27-8-2 / 9-2-11

Scale = 1:46.2



9-2-11 / 9-2-11 | 18-5-7 / 9-2-11 | 27-8-2 / 9-2-11

Plate Offsets (X,Y)-- [1:Edge,0-3-8], [7:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.22	7-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.50	7-9	>654	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 162 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 4-9, 5-7 2 Rows at 1/3 pts 2-10

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-95(LC 11)
Max Uplift 10=-58(LC 16), 6=-64(LC 12)
Max Grav 10=1333(LC 22), 6=1333(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-309/195, 2-4=-2947/1164, 4-5=-3085/1207, 5-6=-1246/566
BOT CHORD 9-10=-1200/2941, 7-9=-1238/3079
WEBS 2-10=-3014/1215, 4-7=-694/471, 5-7=-1239/3107

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

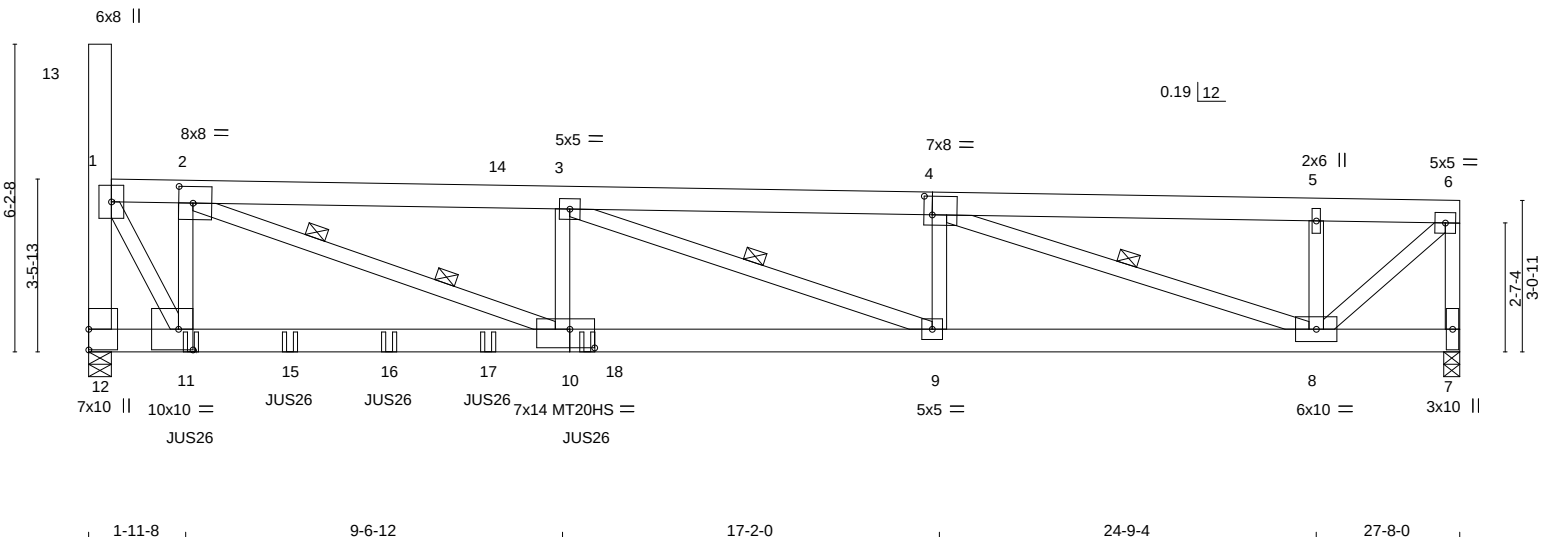
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T7G	Roof Special Girder	1	1	I51164949
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:01 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-M2WAux4zxaMeghvlhPs4Nb1J6JHBKfIRouPdbazU378

1-11-8	9-6-12	17-2-0	24-9-4	27-8-0
1-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Scale = 1:46.5



1-11-8	9-6-12	17-2-0	24-9-4	27-8-0
1-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Plate Offsets (X,Y)-- [2:0-3-7,0-4-0], [4:0-2-0,0-4-8], [10:0-6-0,0-4-8], [11:0-3-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.59	10-11	>559	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.61	10-11	>535	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-3 oc bracing.
WEBS	1 Row at midpt 3-9, 4-8 2 Rows at 1/3 pts 2-10

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-240(LC 43)
Max Uplift 12=-2765(LC 16), 7=-826(LC 12)
Max Grav 12=3388(LC 55), 7=1653(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-4523/4183, 1-2=-2763/2701, 2-3=-6677/6042, 3-4=-4806/4041, 4-5=-1773/1377, 5-6=-1770/1370, 6-7=-1681/1316
BOT CHORD	11-12=-361/509, 10-11=-2722/2738, 9-10=-6089/6613, 8-9=-4100/4795
WEBS	1-11=-4765/5187, 2-11=-1927/1576, 2-10=-3794/4267, 3-10=-1198/1262, 3-9=-2460/2444, 4-9=-576/822, 4-8=-3268/2848, 5-8=-526/343, 6-8=-1902/2423

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=2765, 7=826.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 6-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

15) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 10-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
16) Fill all nail holes where hanger is in contact with lumber.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-58(B) 15=-58(B) 16=-58(B) 17=-58(B) 18=-58(B)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-14=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-48(B) 15=-48(B) 16=-48(B) 17=-48(B) 18=-48(B)
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-48(B) 15=-48(B) 16=-48(B) 17=-48(B) 18=-48(B)
   Trapezoidal Loads (plf)
   Vert: 1=-97-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-65, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-48(B) 15=-48(B) 16=-48(B) 17=-48(B) 18=-48(B)
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-14=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-58(B) 15=-58(B) 16=-58(B) 17=-58(B) 18=-58(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-77, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-58(B) 15=-58(B) 16=-58(B) 17=-58(B) 18=-58(B)
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-14=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 6-7=5
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 11=498(B) 15=499(B) 16=500(B) 17=501(B) 18=502(B)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-38, 6-7=-18
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 11=498(B) 15=499(B) 16=500(B) 17=501(B) 18=502(B)
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-14=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 6-7=3
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 11=498(B) 15=499(B) 16=500(B) 17=501(B) 18=502(B)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 11=498(B) 15=499(B) 16=500(B) 17=501(B) 18=502(B)
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-58(B) 15=-58(B) 16=-58(B) 17=-58(B) 18=-58(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 11=-542(B) 15=-543(B) 16=-544(B) 17=-545(B) 18=-546(B)
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 11=-542(B) 15=-543(B) 16=-544(B) 17=-545(B) 18=-546(B)
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 11=-542(B) 15=-543(B) 16=-544(B) 17=-545(B) 18=-546(B)
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 11=-542(B) 15=-543(B) 16=-544(B) 17=-545(B) 18=-546(B)
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

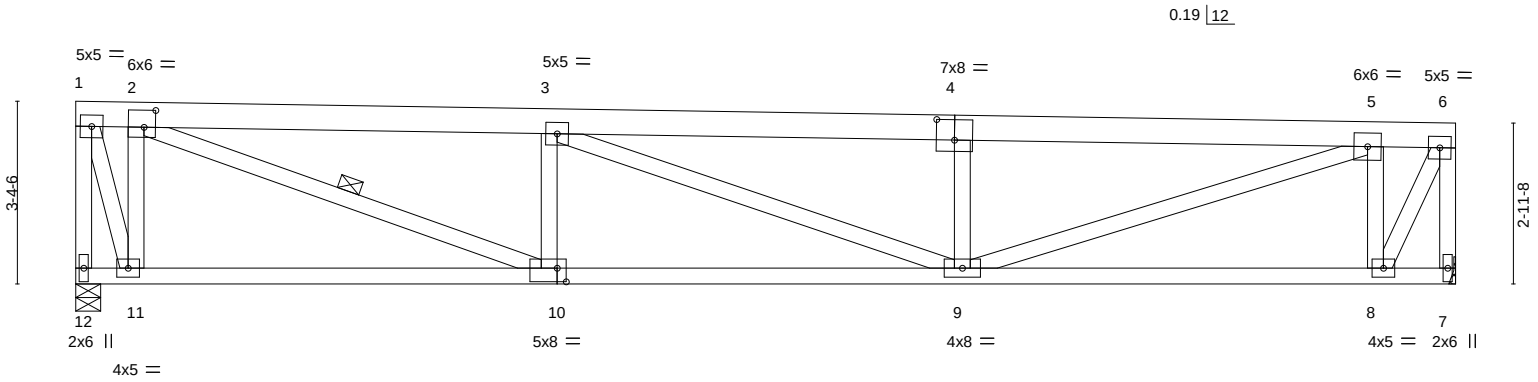
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T8	Roof Special	5	1	I51164950
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-qE4Y5H5biuUVHrUyE7OJvpadmjfx37ua1Y9A70zU377

1-1-5 | 8-8-9 | 16-3-13 | 23-11-1 | 25-4-12
1-1-5 | 7-7-4 | 7-7-4 | 7-7-4 | 1-5-11

Scale = 1:42.4



1-1-5 | 8-8-9 | 16-3-13 | 23-11-1 | 25-4-12
1-1-5 | 7-7-4 | 7-7-4 | 7-7-4 | 1-5-11

Plate Offsets (X,Y)-- [2:0-2-9,0-3-12], [4:0-4-0,0-4-8], [10:0-2-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.13	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.30	9-10	>994	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 161 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-6-7 oc bracing: 9-10.
WEBS 1 Row at midpt 2-10

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-91(LC 13)
Max Uplift 12=-53(LC 16), 7=-59(LC 12)
Max Grav 12=1217(LC 22), 7=1217(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1265/443, 1-2=-522/263, 2-3=-2578/1103, 3-4=-2724/1154, 4-5=-2694/1125, 5-6=-747/349, 6-7=-1255/468
BOT CHORD 10-11=-284/517, 9-10=-1110/2541, 8-9=-340/750
WEBS 1-11=-666/1605, 2-11=-1381/768, 2-10=-951/2202, 3-10=-638/434, 4-9=-584/399, 5-9=-865/2050, 5-8=-1290/700, 6-8=-671/1610

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T8GE	GABLE	1	1	I51164951
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:04 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ndCJWz7sDVkDX8eKMYQn?Ef?ZWTdXFrtUseHCuzU375

25-4-12
25-4-12

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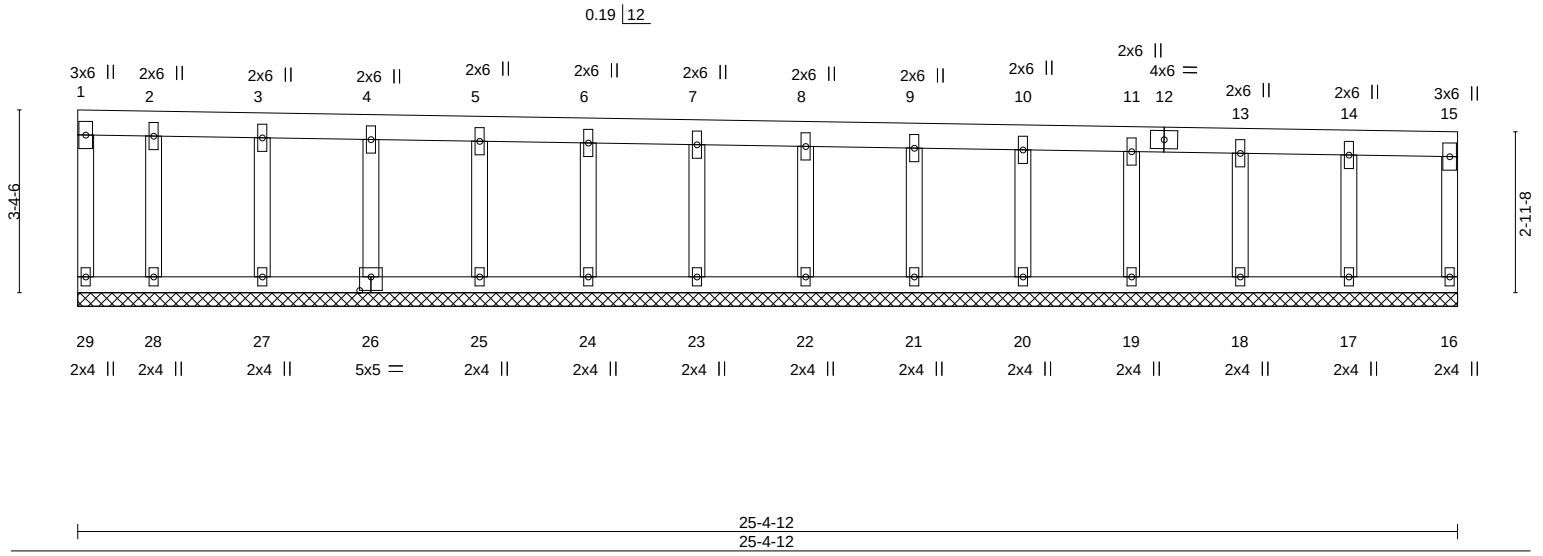

25-4-12
25-4-12

Plate Offsets (X,Y)-- [26:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-12.
(lb) - Max Horz 29=-91(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Max Grav All reactions 250 lb or less at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

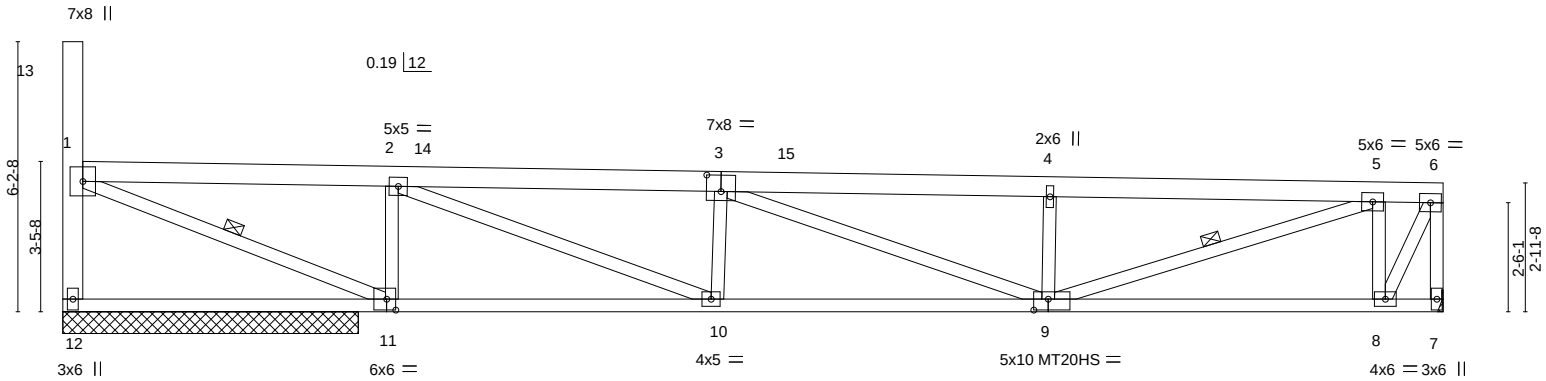
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T9	Roof Special	2	1	I51164952
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:05 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-FplhkJ7U_ps48IDXwFx0XRC4JwdDGWj0jWNqkLzU374

7-6-12	15-1-8	22-8-5	30-3-1	31-8-12
7-6-12	7-6-12	7-6-12	7-6-12	1-5-11

Scale = 1:53.0



7-5-5	15-0-9	22-7-13	30-3-1	31-8-12
7-5-5	7-7-4	7-7-4	7-7-4	1-5-11

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-4-0,0-3-0], [11:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.28	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.57	9-10	>666	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-5 oc bracing.
WEBS	1 Row at midpt 1-11, 5-9

REACTIONS. (size) 12=6-9-8, 7=Mechanical
Max Horz 12=-243(LC 11)
Max Uplift 12=-53(LC 16), 7=-94(LC 12)
Max Grav 12=1820(LC 22), 7=1562(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1749/603, 1-2=-3241/1243, 2-3=-4469/1618, 3-4=-3814/1344, 4-5=-3824/1343, 5-6=-925/330, 6-7=-1599/510
BOT CHORD	11-12=-317/431, 10-11=-1284/3282, 9-10=-1652/4475, 8-9=-349/928
WEBS	1-11=-1144/3370, 2-11=-1177/546, 2-10=-572/1272, 3-10=-319/301, 3-9=-712/293, 4-9=-589/347, 5-9=-1095/3057, 5-8=-1626/715, 6-8=-692/1987

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

April 5,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-14=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-39, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-97-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-66, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-14=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-42, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-78, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-14=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 6-7=5
   Drag: 1-6=0
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-38, 6-7=-18
   Drag: 1-6=0
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-14=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 6-7=3
   Drag: 1-6=0
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-48, 7-12=-20
   Horz: 1-12=-3, 1-13=-25, 6-7=-14
   Drag: 1-6=0
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-14=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-14=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T9A	Roof Special	1	1	I51164953
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:06 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-j0J3xf86l6_xmSojTzSF4fkHZK0j??zAyA7OGnzU373

3-11-8	11-6-12	19-2-0	26-9-4	29-8-0
3-11-8	7-7-4	7-7-4	7-7-4	2-10-12

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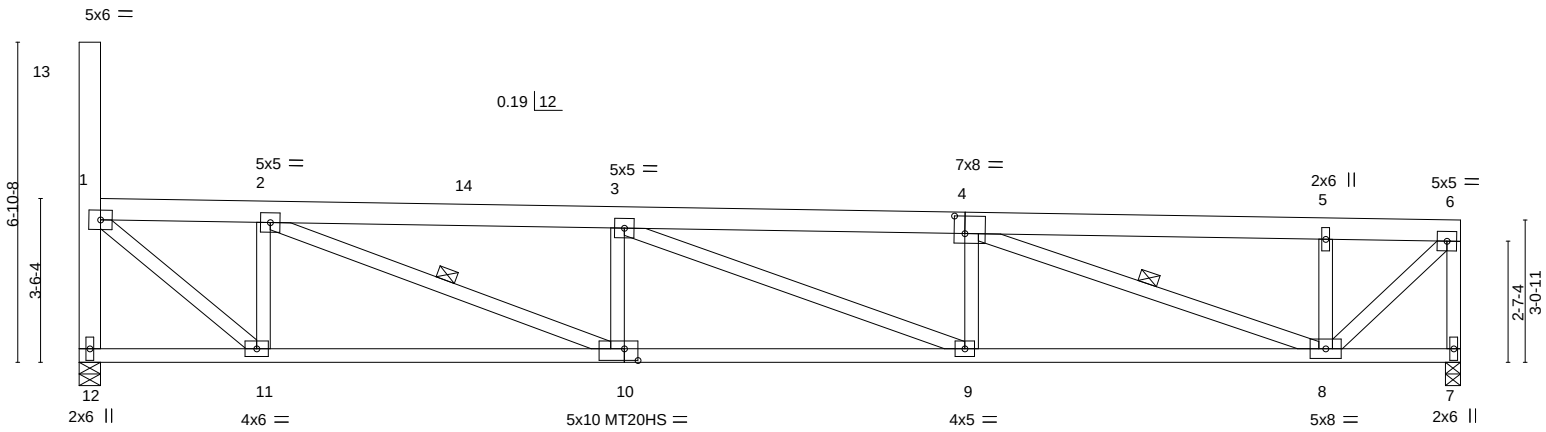

3-11-8	11-6-12	19-2-0	26-9-4	29-8-0
3-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Plate Offsets (X,Y)-- [4:0-2-12,0-4-8], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.21	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.44	9-10	>799	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-15 oc bracing.
WEBS	1 Row at midpt 2-10, 4-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-276(LC 13)
Max Uplift 12=-42(LC 16), 7=-98(LC 12)
Max Grav 12=1713(LC 22), 7=1458(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1690/592, 1-2=-1841/904, 2-3=-3685/1500, 3-4=-3605/1405, 4-5=-1495/554, 5-6=-1490/547, 6-7=-1458/555
BOT CHORD	11-12=-350/538, 10-11=-925/1836, 9-10=-1511/3651, 8-9=-1436/3608
WEBS	1-11=-774/2359, 2-11=-1393/575, 2-10=-895/1985, 3-10=-581/426, 4-8=-2257/895, 5-8=-536/325, 6-8=-794/2073

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-97-to-14=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-14=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-14=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-155-to-14=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

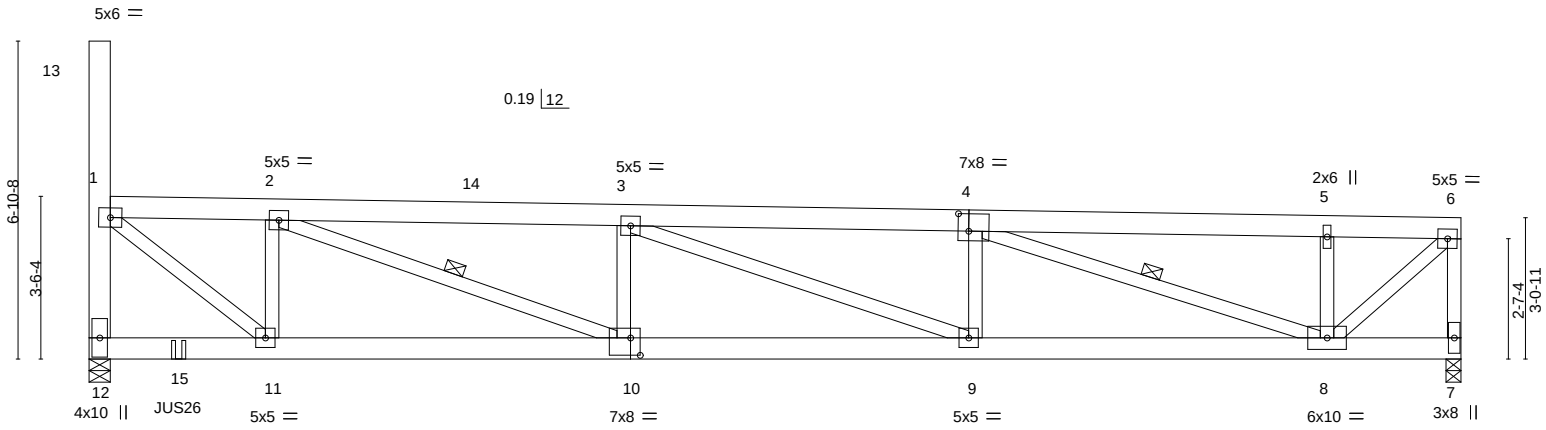
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T9G	Roof Special Girder	2	1	I51164954
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:07 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-BCtR9?9kWQ6oOcNv1gzUcsHSJkOlkS8JAqsxoDzU372

3-11-8	11-6-12	19-2-0	26-9-4	29-8-0
3-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Scale = 1:49.8



3-11-8	11-6-12	19-2-0	26-9-4	29-8-0
3-11-8	7-7-4	7-7-4	7-7-4	2-10-12

Plate Offsets (X,Y)-- [4:0-2-12,0-4-8], [10:0-2-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.19	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.38	9-10	>931	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 215 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-10 oc bracing.
WEBS	1 Row at midpt 2-10, 4-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-273(LC 11)
Max Uplift 12=-663(LC 16), 7=-136(LC 12)
Max Grav 12=1824(LC 55), 7=1463(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1709/855, 1-2=-1959/1279, 2-3=-3799/1758, 3-4=-3709/1580, 4-5=-1552/615, 5-6=-1546/608, 6-7=-1464/593
BOT CHORD	11-12=-416/602, 10-11=-1300/1969, 9-10=-1769/3764, 8-9=-1612/3712
WEBS	1-11=-1190/2430, 2-11=-1380/639, 2-10=-1042/1996, 3-10=-577/452, 3-9=-263/181, 4-8=-2299/1015, 5-8=-531/324, 6-8=-862/2111

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=663, 7=136.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-77(F)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-14=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-64(F)
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-64(F)
   Trapezoidal Loads (plf)
   Vert: 1=-97-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-66, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-64(F)
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-14=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-77(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-78, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-77(F)
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-14=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 6-7=5
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=468(F)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-38, 6-7=-18
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=468(F)
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-14=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 6-7=3
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=468(F)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-14=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-48, 7-12=-20
   Horz: 1-12=-3, 1-13=-25, 6-7=-14
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=468(F)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-77(F)
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 6-7=5
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-527(F)
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 6-7=-18
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-527(F)
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 6-7=3
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-527(F)
Trapezoidal Loads (plf)
Vert: 1=-114-to-14=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 6-7=-14
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-527(F)
Trapezoidal Loads (plf)
Vert: 1=-106-to-14=-48

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Chesterfield, MO 63017

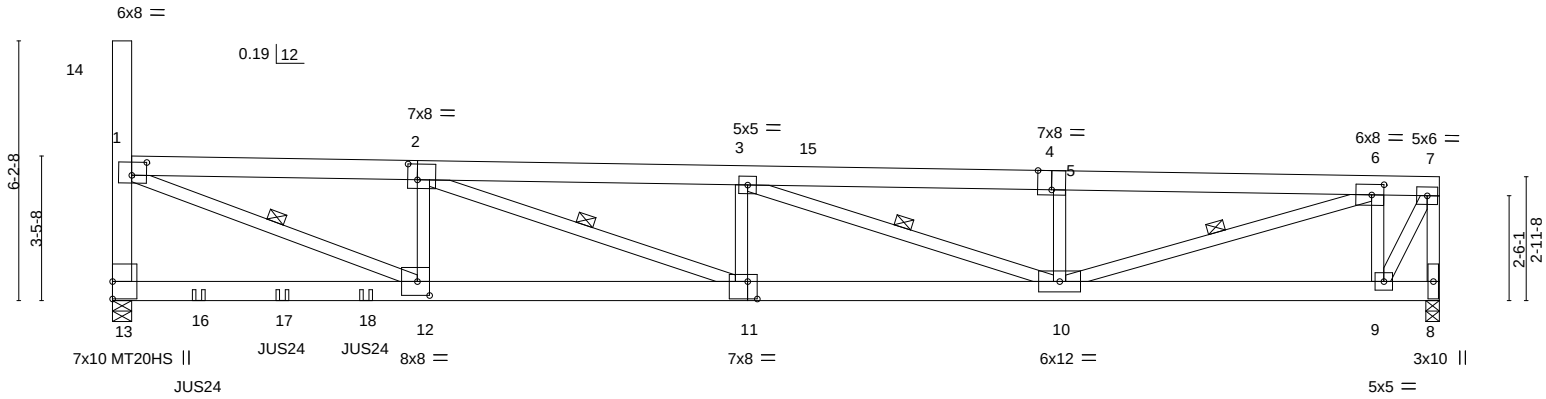
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T9GA	Roof Special Girder	1	1	I51164955
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:19:08 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-fORpMLAMHkEf?my5bNUj94qbD7eQTrISPUcULgzU371

7-5-3	15-0-7	22-7-11	30-2-15	31-8-10
7-5-3	7-7-4	7-7-4	7-7-4	1-5-11

Scale = 1:55.1



7-5-3	15-0-7	22-7-11	30-2-15	31-8-10
7-5-3	7-7-4	7-7-4	7-7-4	1-5-11

Plate Offsets (X,Y)-- [1:0-4-4,0-3-12], [2:0-2-12,0-4-8], [5:0-4-0,Edge], [6:0-3-8,0-3-0], [11:0-2-12,0-5-0], [12:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.40	12-13	>934	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.53	10-11	>706	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 225 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 13-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-10-4 oc bracing.
WEBS	1 Row at midpt 1-12, 2-11, 3-10, 6-10

REACTIONS. (size) 13=0-5-8, 8=0-3-14
Max Horz 13=-240(LC 11)
Max Uplift 13=-1340(LC 16), 8=-272(LC 12)
Max Grav 13=2446(LC 55), 8=1587(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1813/1208, 1-2=-4063/2951, 2-3=-4766/2686, 3-5=-3983/1982, 5-6=-3983/1975, 6-7=-998/448, 7-8=-1648/694
BOT CHORD	12-13=-539/640, 11-12=-2958/4041, 10-11=-2704/4744, 9-10=-469/1001
WEBS	1-12=-2757/3925, 2-12=-1127/838, 2-11=-1368/1749, 3-11=-347/432, 3-10=-980/734, 5-10=-580/355, 6-10=-1629/3136, 6-9=-1648/906, 7-9=-922/2074

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=1340, 8=272.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Fill all nail holes where hanger is in contact with lumber.

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Chesterfield, MO 63017

NOTES-

15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-84(F) 17=-84(F) 18=-84(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-69(F) 17=-69(F) 18=-69(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-69(F) 17=-69(F) 18=-69(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-66, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-69(F) 17=-69(F) 18=-69(F)
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-84(F) 17=-84(F) 18=-84(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-78, 8-13=-20
   Concentrated Loads (lb)
   Vert: 16=-84(F) 17=-84(F) 18=-84(F)
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-2=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-55, 8-13=-20
   Horz: 1-13=18, 1-14=38, 7-8=5
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=338(F) 17=338(F) 18=339(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-48, 8-13=-20
   Horz: 1-13=-5, 1-14=-38, 7-8=-18
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=338(F) 17=338(F) 18=339(F)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-55, 8-13=-20
   Horz: 1-13=14, 1-14=-25, 7-8=3
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=338(F) 17=338(F) 18=339(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-48, 8-13=-20
Horz: 1-13=-3, 1-14=-25, 7-8=-14
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=338(F) 17=338(F) 18=339(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-84(F) 17=-84(F) 18=-84(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-55, 8-13=-20
Horz: 1-13=18, 1-14=38, 7-8=5
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-402(F) 17=-403(F) 18=-404(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-13=-20
Horz: 1-13=-5, 1-14=-38, 7-8=-18
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-402(F) 17=-403(F) 18=-404(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-55, 8-13=-20
Horz: 1-13=14, 1-14=-25, 7-8=3
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-402(F) 17=-403(F) 18=-404(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-13=-20
Horz: 1-13=-3, 1-14=-25, 7-8=-14
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-402(F) 17=-403(F) 18=-404(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T10	Roof Special	2	1	I51164956
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-m?1l65utF9uhlTrkN7bssjRU_PSddxSs1_wtcpzU38h

1-9-15	9-5-3	17-0-7	24-7-11	32-2-15	33-8-10
1-9-15	7-7-4	7-7-4	7-7-4	7-7-4	1-5-11

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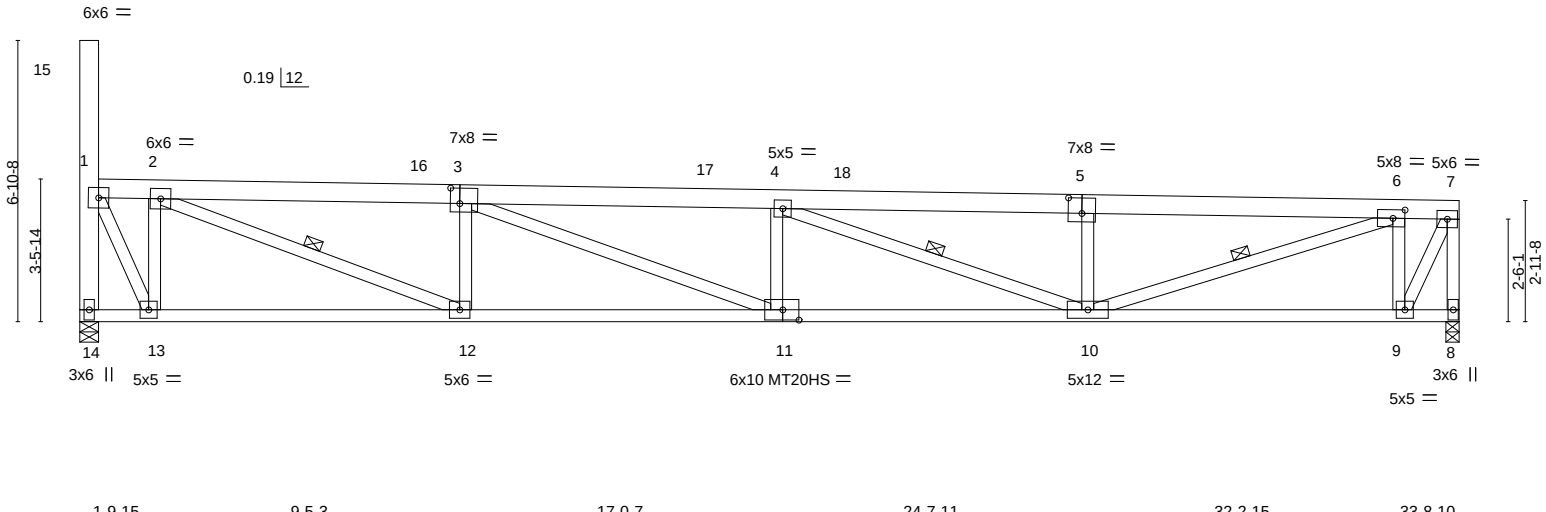

1-9-15	9-5-3	17-0-7	24-7-11	32-2-15	33-8-10
1-9-15	7-7-4	7-7-4	7-7-4	7-7-4	1-5-11

Plate Offsets (X,Y)-- [3:0-2-12,0-4-8], [5:0-4-0,0-4-8], [6:0-3-8,0-2-8], [11:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.34	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.68	11-12	>585	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.12	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 219 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS	1 Row at midpt 2-12, 4-10, 6-10

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-276(LC 11)
Max Uplift 14=-54(LC 16), 8=-103(LC 12)
Max Grav 14=1924(LC 22), 8=1663(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1935/560, 1-2=-1101/633, 2-3=-4040/1483, 3-4=-5068/1752, 4-5=-4157/1400, 5-6=-4126/1376, 6-7=-988/330, 7-8=-1699/516
BOT CHORD	13-14=-334/485, 12-13=-647/1096, 11-12=-1482/3985, 10-11=-1769/5050, 9-10=-354/991
WEBS	1-13=-685/2292, 2-13=-1920/712, 2-12=-1116/3172, 3-12=-1042/518, 3-11=-524/1152, 4-11=-256/275, 4-10=-959/358, 5-10=-590/333, 6-10=-1123/3308, 6-9=-1745/727, 7-9=-705/2121

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-6-14, Corner(3) 18-6-14 to 33-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=103.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-16=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-118-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-97-to-16=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-16=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-16=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-55, 8-14=-20
Horz: 1-14=18, 1-15=38, 7-8=5
Drag: 1-7=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-16=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-48, 8-14=-20
Horz: 1-14=-5, 1-15=-38, 7-8=-18
Drag: 1-7=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-16=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-55, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3
Drag: 1-7=0
Trapezoidal Loads (plf)
Vert: 1=-114-to-16=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-48, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14
Drag: 1-7=0
Trapezoidal Loads (plf)
Vert: 1=-106-to-16=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-16=-70

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T10G	Roof Special Girder	1	1	I51164957
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:23 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-EBb7KRuV0T0YvdQwxq65PxzgyprRMNb?GegR8FzU38g

1-9-15	9-5-3	17-0-7	24-7-11	32-2-15	33-8-10
1-9-15	7-7-4	7-7-4	7-7-4	7-7-4	1-5-11

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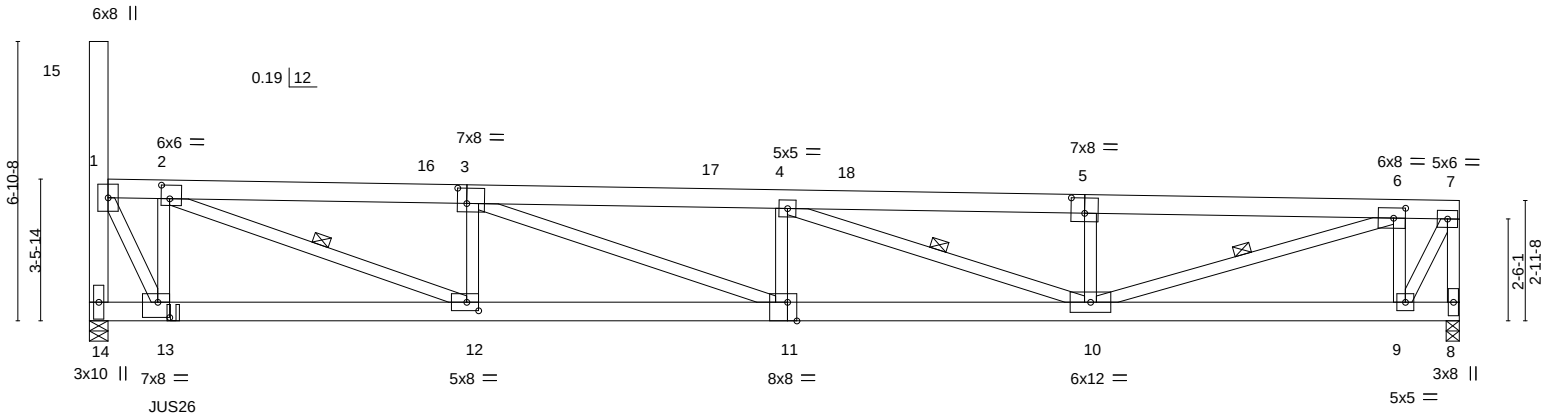

1-9-15	9-5-3	17-0-7	24-7-11	32-2-15	33-8-10
1-9-15	7-7-4	7-7-4	7-7-4	7-7-4	1-5-11

Plate Offsets (X,Y)-- [2:0-2-8,0-4-0], [3:0-2-12,0-4-8], [5:0-4-0,0-4-8], [6:0-3-8,0-3-0], [11:0-2-12,Edge], [12:0-3-8,0-2-8], [13:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.31	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.61	11	>652	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 245 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-4 oc bracing.
WEBS	1 Row at midpt 2-12, 4-10, 6-10

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-274(LC 11)
Max Uplift 14=-780(LC 16), 8=-139(LC 12)
Max Grav 14=2053(LC 55), 8=1666(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-2034/1257, 1-2=-1396/1009, 2-3=-4162/1821, 3-4=-5224/2010, 4-5=-4255/1550, 5-6=-4224/1526, 6-7=-1050/368, 7-8=-1731/566
BOT CHORD	13-14=-369/515, 12-13=-1023/1405, 11-12=-1819/4104, 10-11=-2027/5206, 9-10=-395/1054
WEBS	1-13=-1402/2357, 2-13=-1899/777, 2-12=-1186/3209, 3-12=-1043/548, 3-11=-641/1187, 4-11=-251/306, 4-10=-1017/473, 5-10=-582/331, 6-10=-1232/3335, 6-9=-1737/760, 7-9=-771/2182

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-6-14, Corner(3) 18-6-14 to 33-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=780, 8=139.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-55(B)
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-55(B)
   Trapezoidal Loads (plf)
   Vert: 1=-97-to-16=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-66, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-55(B)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-16=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-78, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-16=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-55, 8-14=-20
   Horz: 1-14=18, 1-15=38, 7-8=5
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 13=550(B)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-16=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-48, 8-14=-20
   Horz: 1-14=-5, 1-15=-38, 7-8=-18
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 13=550(B)
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-16=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-55, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 13=550(B)
   Trapezoidal Loads (plf)
   Vert: 1=-114-to-16=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-48, 8-14=-20
   Horz: 1-14=-3, 1-15=-25, 7-8=-14
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 13=550(B)

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-106-to-16=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 13=-66(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-16=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-55, 8-14=-20
Horz: 1-14=18, 1-15=38, 7-8=5
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 13=-600(B)
Trapezoidal Loads (plf)
Vert: 1=-114-to-16=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-48, 8-14=-20
Horz: 1-14=-5, 1-15=-38, 7-8=-18
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 13=-600(B)
Trapezoidal Loads (plf)
Vert: 1=-106-to-16=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-55, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 13=-600(B)
Trapezoidal Loads (plf)
Vert: 1=-114-to-16=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-48, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 13=-600(B)
Trapezoidal Loads (plf)
Vert: 1=-106-to-16=-48

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T11	Roof Special	4	1	I51164958
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:24 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-iO9VXnv7nn8PXn?6VYdKx8WmhC9J5sx9VIP_hhzU38f

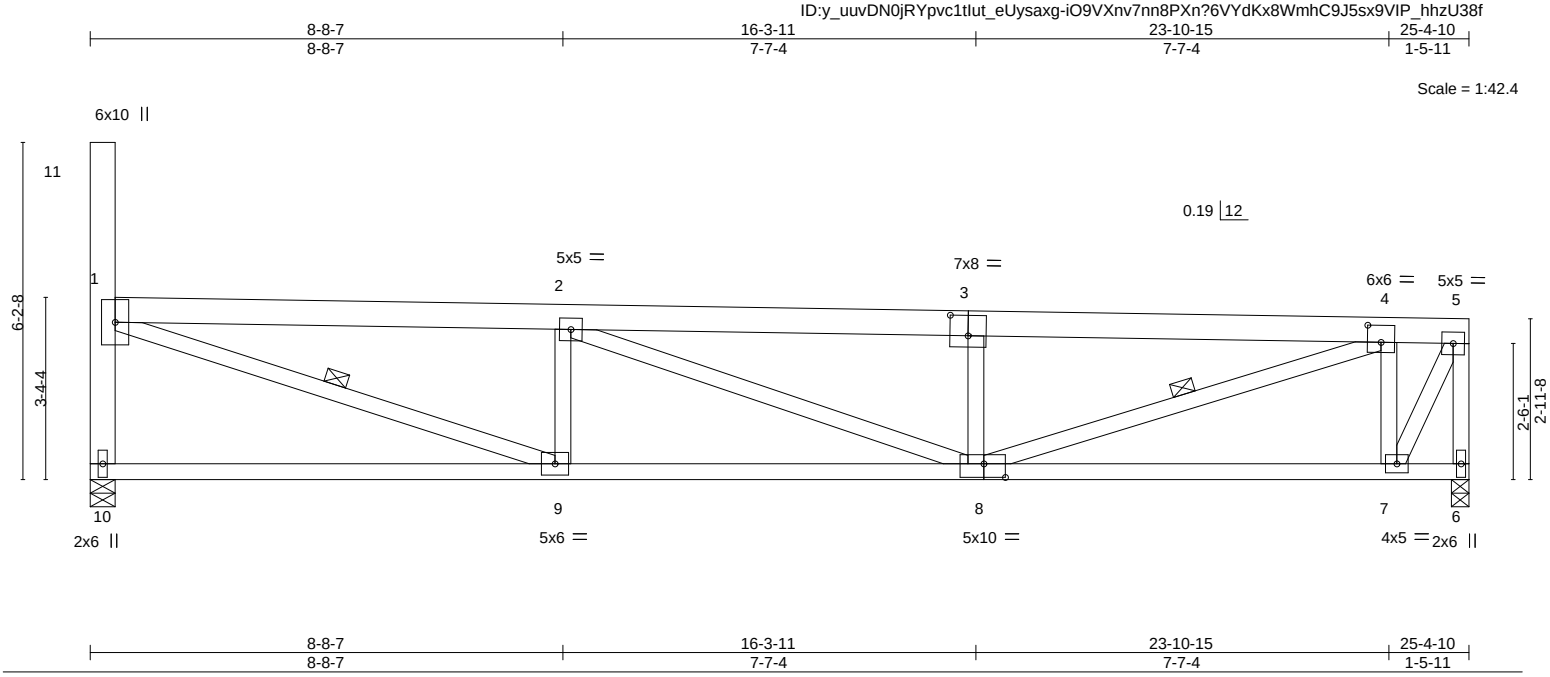

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [4:0-3-0,0-3-12], [8:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.16	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.33	8-9	>905	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS	1 Row at midpt 1-9, 4-8

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=-245(LC 11)
Max Uplift 10=-34(LC 16), 6=-87(LC 12)
Max Grav 10=1513(LC 22), 6=1250(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1428/606, 1-2=-2817/1267, 2-3=-2809/1232, 3-4=-2753/1184, 4-5=-769/325, 5-6=-1283/497
BOT CHORD	9-10=-364/467, 8-9=-1294/2810, 7-8=-357/772
WEBS	1-9=-1200/2788, 2-9=-761/505, 3-8=-542/393, 4-8=-922/2093, 4-7=-1339/732, 5-7=-708/1656

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-132-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-137-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=18, 1-11=38, 5-6=5
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-5, 1-11=-38, 5-6=-18
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=14, 1-11=-25, 5-6=3
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-3, 1-11=-25, 5-6=-14
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

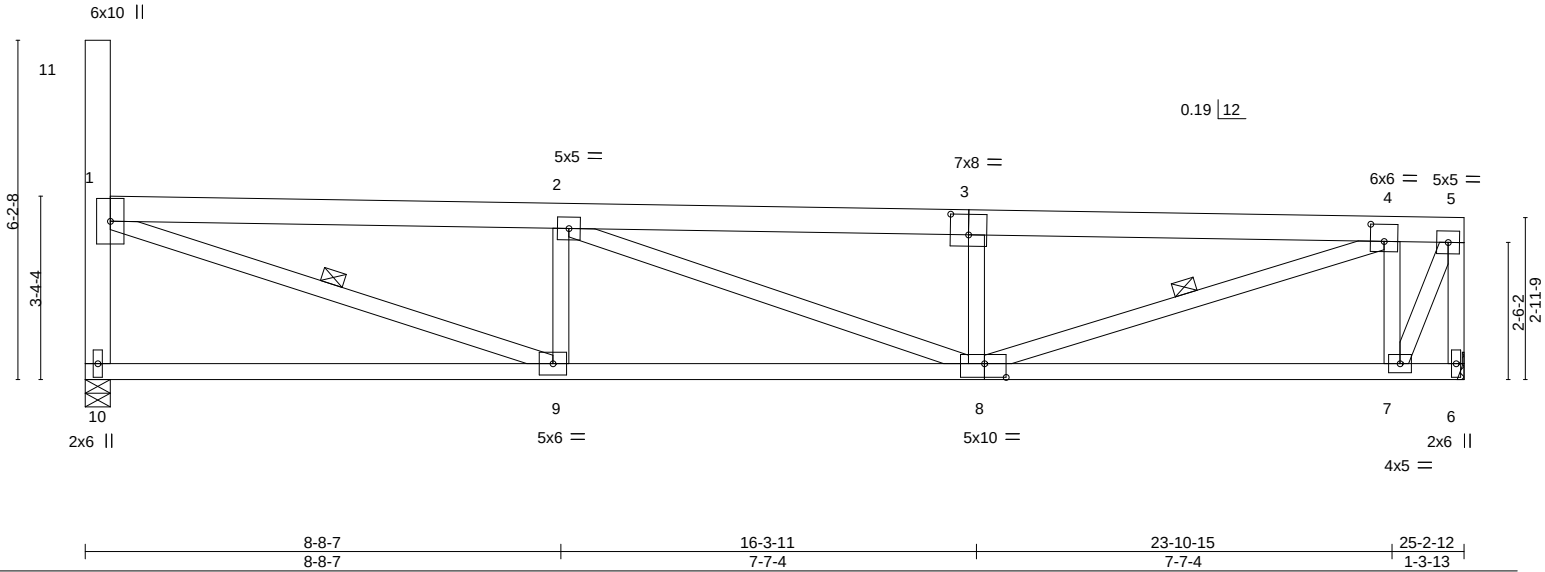
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T11A	Roof Special	1	1	I51164959
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:25 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-AajtI7wlY4GG9xaI3F8ZUM3xUcVeqJHIjy9XD8zU38e

8-8-7 | 16-3-11 | 23-10-15 | 25-2-12
8-8-7 | 7-7-4 | 7-7-4 | 1-3-13

Scale = 1:42.2



8-8-7 | 16-3-11 | 23-10-15 | 25-2-12
8-8-7 | 7-7-4 | 7-7-4 | 1-3-13

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [4:0-3-0,0-3-12], [8:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.16	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.33	8-9	>911	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 162 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-11 oc bracing.
WEBS	1 Row at midpt 1-9, 4-8

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-245(LC 11)
Max Uplift 10=-33(LC 16), 6=-86(LC 12)
Max Grav 10=1504(LC 22), 6=1242(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1420/606, 1-2=-2793/1262, 2-3=-2762/1217, 3-4=-2706/1169, 4-5=-697/300, 5-6=-1280/486
BOT CHORD 9-10=-365/468, 8-9=-1289/2786, 7-8=-328/701
WEBS 1-9=-1197/2763, 2-9=-753/504, 3-8=-542/394, 4-8=-938/2119, 4-7=-1371/756, 5-7=-709/1653

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

April 5,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=18, 1-11=38, 5-6=5
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-5, 1-11=-38, 5-6=-18
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-55, 6-10=-20
      Horz: 1-10=14, 1-11=-25, 5-6=3
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-48, 6-10=-20
      Horz: 1-10=-3, 1-11=-25, 5-6=-14
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

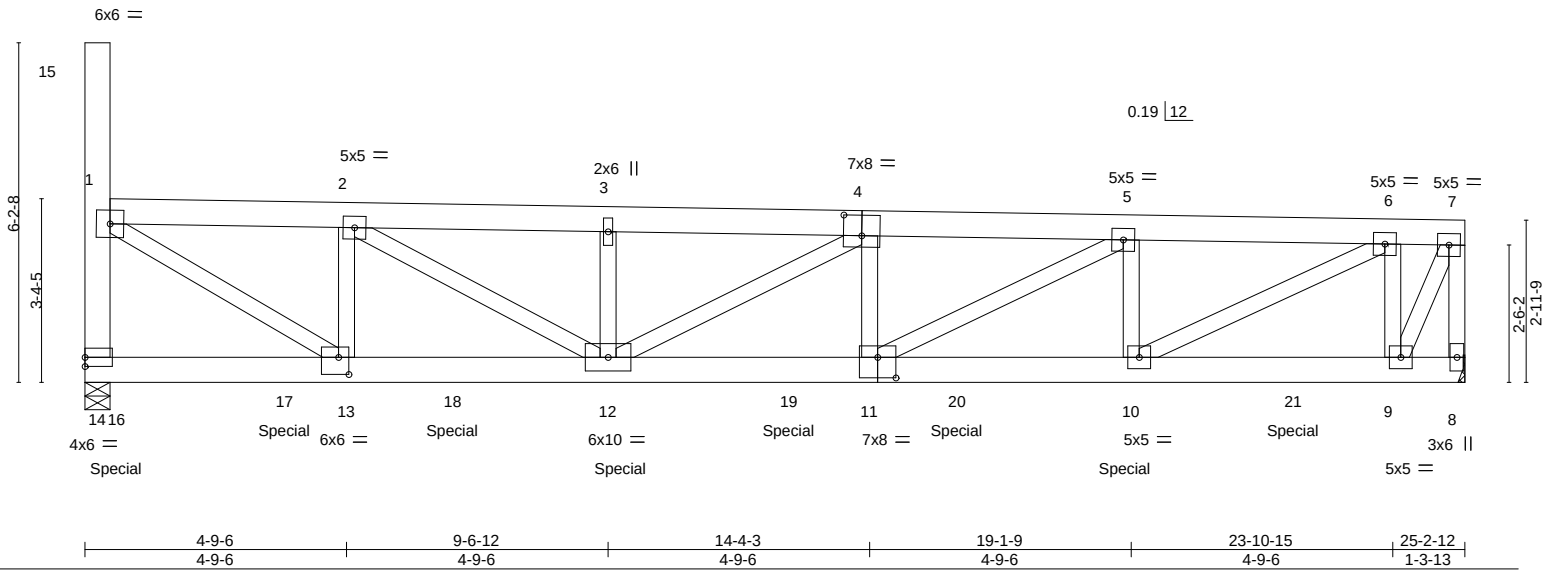
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T11G	ROOF SPECIAL GIRDER	1	2	I51164960
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:27 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-6zqe9oy?3iW_OEkhAgA1Zn8PBQD3lATbBGeeH0zU38c

4-9-6	9-6-12	14-4-3	19-1-9	23-10-15	25-2-12
4-9-6	4-9-6	4-9-6	4-9-6	4-9-6	1-3-13

Scale = 1:42.1



4-9-6	9-6-12	14-4-3	19-1-9	23-10-15	25-2-12
4-9-6	4-9-6	4-9-6	4-9-6	4-9-6	1-3-13

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [11:0-4-0,0-4-8], [13:0-2-4,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.16	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33	11-12	>914	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 380 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=-242(LC 43)
Max Uplift 14=-294(LC 16), 8=-238(LC 12)
Max Grav 14=5711(LC 22), 8=3127(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-4175/769, 1-2=-6379/1235, 2-3=-9361/1715, 3-4=-9361/1710, 4-5=-9163/1717, 5-6=-6342/1259, 6-7=-1509/336, 7-8=-3120/673
BOT CHORD	13-14=-348/573, 12-13=-1259/6376, 11-12=-1768/9184, 10-11=-1303/6338, 9-10=-360/1508
WEBS	1-13=-1178/7252, 2-13=-2058/583, 2-12=-742/3465, 3-12=-355/250, 4-12=-189/411, 4-11=-470/238, 5-11=-515/3211, 5-10=-1937/511, 6-10=-1066/5463, 6-9=-2911/718, 7-9=-758/3400

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=294, 8=238.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Continued on page 2

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NOTES-

12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1380 lb down and 75 lb up at 0-7-0, 1142 lb down and 82 lb up at 3-7-14, 1022 lb down and 76 lb up at 6-8-12, 905 lb down and 71 lb up at 9-9-10, 747 lb down and 63 lb up at 12-10-8, 551 lb down and 52 lb up at 15-11-7, and 355 lb down and 40 lb up at 19-0-5, and 147 lb down and 48 lb up at 22-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-905(F) 10=-355(F) 16=-1380(F) 17=-1142(F) 18=-1022(F) 19=-747(F) 20=-551(F) 21=-147(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-792(F) 10=-308(F) 16=-1195(F) 17=-999(F) 18=-894(F) 19=-653(F) 20=-480(F) 21=-126(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-792(F) 10=-308(F) 16=-1195(F) 17=-999(F) 18=-894(F) 19=-653(F) 20=-480(F) 21=-126(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-65, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-792(F) 10=-308(F) 16=-1195(F) 17=-999(F) 18=-894(F) 19=-653(F) 20=-480(F) 21=-126(F)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-905(F) 10=-355(F) 16=-1380(F) 17=-1142(F) 18=-1022(F) 19=-747(F) 20=-551(F) 21=-147(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-77, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-905(F) 10=-355(F) 16=-1380(F) 17=-1142(F) 18=-1022(F) 19=-747(F) 20=-551(F) 21=-147(F)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-55, 8-14=-20
   Horz: 1-14=18, 1-15=38, 7-8=5
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 12=3(F) 10=14(F) 16=-18(F) 17=-3(F) 18=-0(F) 19=6(F) 20=11(F) 21=32(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-48, 8-14=-20
   Horz: 1-14=-5, 1-15=-38, 7-8=-18
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 12=3(F) 10=14(F) 16=-18(F) 17=-3(F) 18=-0(F) 19=6(F) 20=11(F) 21=32(F)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-47
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-55, 8-14=-20
   Horz: 1-14=14, 1-15=-25, 7-8=3
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 12=3(F) 10=14(F) 16=-18(F) 17=-3(F) 18=-0(F) 19=6(F) 20=11(F) 21=32(F)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55

Continued on page 3

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LOAD CASE(S) Standard

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 12=3(F) 10=14(F) 16=-18(F) 17=-3(F) 18=-0(F) 19=6(F) 20=11(F) 21=32(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-905(F) 10=-355(F) 16=-1380(F) 17=-1142(F) 18=-1022(F) 19=-747(F) 20=-551(F) 21=-147(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-55, 8-14=-20
Horz: 1-14=18, 1-15=38, 7-8=5
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 12=-644(F) 10=-243(F) 16=-962(F) 17=-808(F) 18=-726(F) 19=-529(F) 20=-386(F) 21=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-14=-20
Horz: 1-14=-5, 1-15=-38, 7-8=-18
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 12=-644(F) 10=-243(F) 16=-962(F) 17=-808(F) 18=-726(F) 19=-529(F) 20=-386(F) 21=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-55, 8-14=-20
Horz: 1-14=14, 1-15=-25, 7-8=3
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 12=-644(F) 10=-243(F) 16=-962(F) 17=-808(F) 18=-726(F) 19=-529(F) 20=-386(F) 21=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-14=-20
Horz: 1-14=-3, 1-15=-25, 7-8=-14
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 12=-644(F) 10=-243(F) 16=-962(F) 17=-808(F) 18=-726(F) 19=-529(F) 20=-386(F) 21=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-47

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T11GE	GABLE	1	1	I51164961
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:28 2022 Page 1
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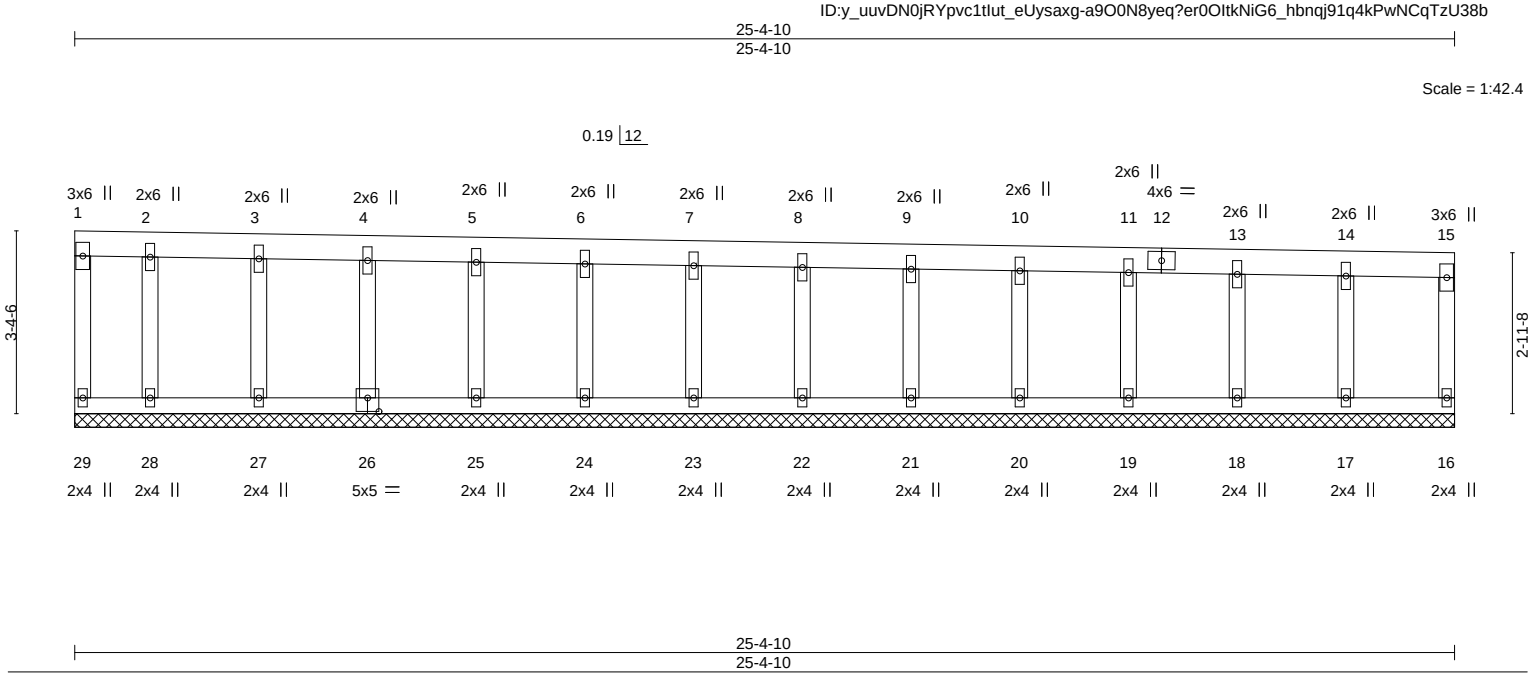

Plate Offsets (X,Y)-- [26:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-10.
(lb) - Max Horz 29=-91(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Max Grav All reactions 250 lb or less at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T12	Roof Special	2	1	I51164962
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-3LyOaUzGbJmidYt4I5DVeCDekD_FmBjuea7lMvzU38a

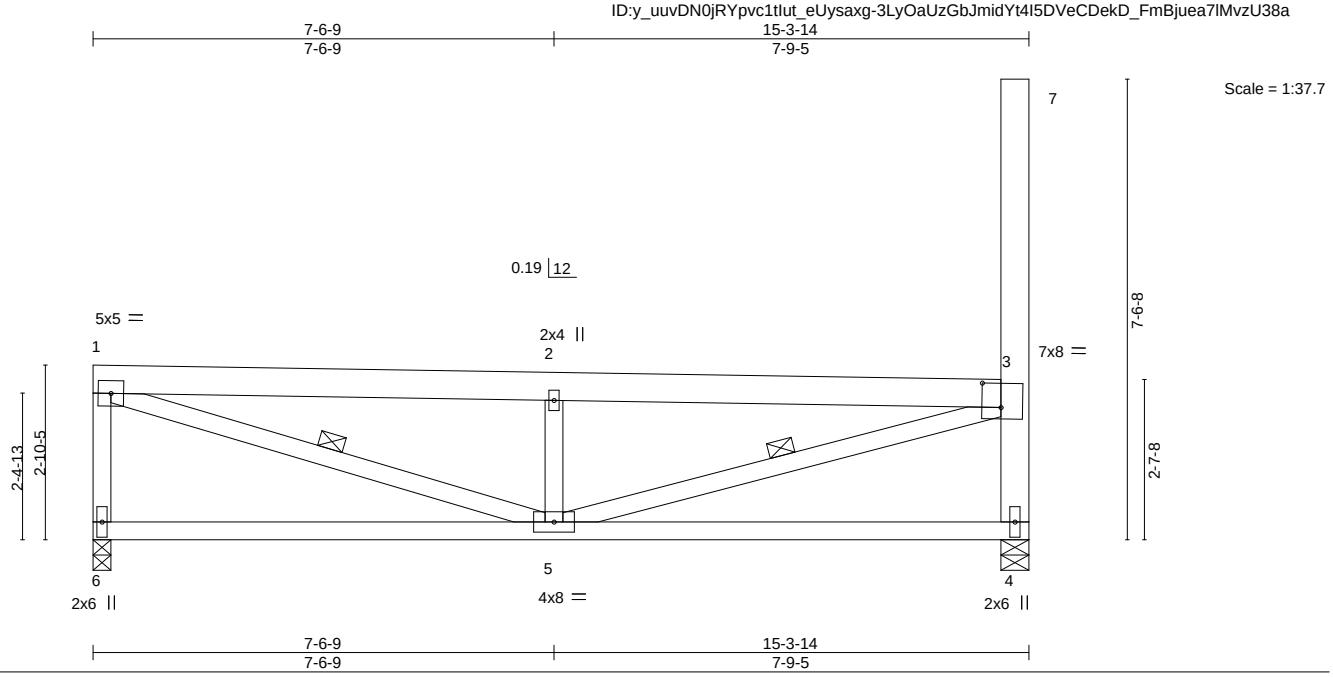

Plate Offsets (X,Y)-- [3:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.06	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.15	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 103 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	4-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-6 oc bracing.
WEBS	1 Row at midpt 1-5, 3-5

REACTIONS. (size) 6=0-3-8, 4=0-5-8
Max Horz 6=-335(LC 11)
Max Uplift 6=-85(LC 16), 4=-121(LC 12)
Max Grav 6=768(LC 22), 4=968(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-710/559, 1-2=-1526/1100, 2-3=-1529/1090, 3-4=-908/628
BOT CHORD 5-6=-611/437, 4-5=-351/327
WEBS 1-5=-1192/1604, 2-5=-708/597, 3-5=-1158/1329

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=121.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-70-to-3=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 4-6=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 2=-60-to-3=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-39-to-3=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-64, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-64-to-3=-124

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-42-to-3=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-76, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-76-to-3=-156

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-55, 4-6=-20
Horz: 1-6=18, 3-4=5, 3-7=38
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 2=-55-to-3=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-48, 4-6=-20
Horz: 1-6=-5, 3-4=-18, 3-7=-38
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-55, 4-6=-20
Horz: 1-6=14, 3-4=3, 3-7=25
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 2=-55-to-3=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-48, 4-6=-20
Horz: 1-6=-3, 3-4=-14, 3-7=25
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-70-to-3=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T12G	Roof Special Girder	1	1	I51164963
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:30 2022 Page 1
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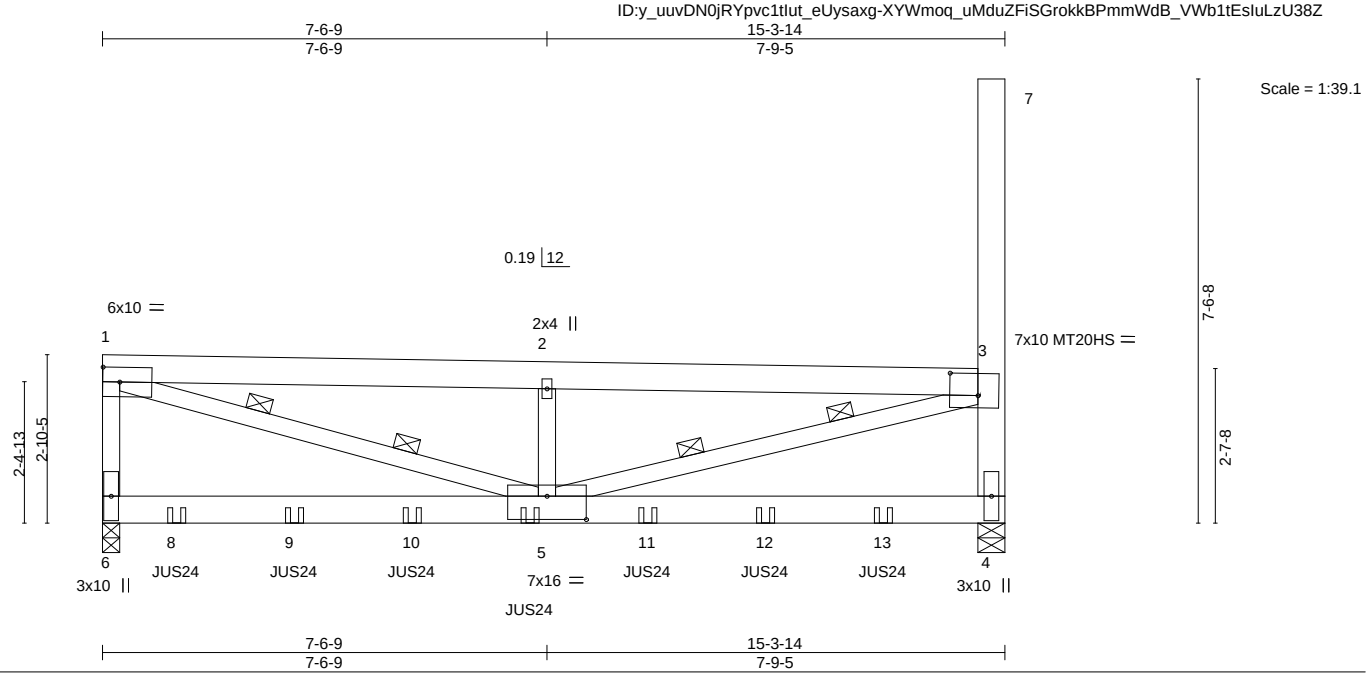

Plate Offsets (X,Y)-- [1:0-3-7,0-3-0], [3:0-5-12,0-4-8], [5:0-8-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.39	4-5	>457	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.40	4-5	>447	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 115 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-7: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-5 oc bracing.
WEBS 2 Rows at 1/3 pts 1-5, 3-5

REACTIONS. (size) 6=0-3-8, 4=0-5-8
Max Horz 6=-332(LC 11)
Max Uplift 6=-1575(LC 16), 4=-1491(LC 12)
Max Grav 6=2064(LC 50), 4=2157(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1457/1486, 1-2=-4167/4036, 2-3=-4172/4027, 3-4=-1648/1540
BOT CHORD 5-6=-607/433, 4-5=-473/451
WEBS 1-5=-4274/4382, 2-5=-663/697, 3-5=-4116/4121

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1575, 4=1491.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-3-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 3-3-2 from the left end to 9-3-2 to connect truss(es) to back face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 7-3-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 11-3-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 13-3-2 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
15) Fill all nail holes where hanger is in contact with lumber.

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NOTES-

16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-70, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-178(B) 8=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B) 13=-178(B)
   Trapezoidal Loads (plf)
   Vert: 2=-70-to-3=-150(F=-80)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-150(B) 8=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B) 13=-150(B)
   Trapezoidal Loads (plf)
   Vert: 2=-60-to-3=-120(F=-60)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-39, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-150(B) 8=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B) 13=-150(B)
   Trapezoidal Loads (plf)
   Vert: 2=-39-to-3=-99(F=-60)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-64, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-150(B) 8=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B) 13=-150(B)
   Trapezoidal Loads (plf)
   Vert: 2=-64-to-3=-124(F=-60)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-42, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-178(B) 8=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B) 13=-178(B)
   Trapezoidal Loads (plf)
   Vert: 2=-42-to-3=-122(F=-80)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-76, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-178(B) 8=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B) 13=-178(B)
   Trapezoidal Loads (plf)
   Vert: 2=-76-to-3=-156(F=-80)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-55, 4-6=-20
   Horz: 1-6=18, 3-4=5, 3-7=38
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 5=244(B) 8=243(B) 9=243(B) 10=243(B) 11=244(B) 12=244(B) 13=245(B)
   Trapezoidal Loads (plf)
   Vert: 2=-55-to-3=-115(F=-60)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-48, 4-6=-20
   Horz: 1-6=-5, 3-4=-18, 3-7=-38
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 5=244(B) 8=243(B) 9=243(B) 10=243(B) 11=244(B) 12=244(B) 13=245(B)
   Trapezoidal Loads (plf)
   Vert: 2=-48-to-3=-108(F=-60)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-55, 4-6=-20
   Horz: 1-6=14, 3-4=3, 3-7=25
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 5=244(B) 8=243(B) 9=243(B) 10=243(B) 11=244(B) 12=244(B) 13=245(B)
   Trapezoidal Loads (plf)
   Vert: 2=-55-to-3=-115(F=-60)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-48, 4-6=-20
Horz: 1-6=-3, 3-4=-14, 3-7=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 5=244(B) 8=243(B) 9=243(B) 10=243(B) 11=244(B) 12=244(B) 13=245(B)
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-108(F=-60)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-178(B) 8=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B) 13=-178(B)
Trapezoidal Loads (plf)
Vert: 2=-70-to-3=-150(F=-80)

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-55, 4-6=-20
Horz: 1-6=18, 3-4=5, 3-7=38
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 5=-399(B) 8=-398(B) 9=-399(B) 10=-399(B) 11=-400(B) 12=-400(B) 13=-400(B)
Trapezoidal Loads (plf)
Vert: 2=-55-to-3=-115(F=-60)

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-48, 4-6=-20
Horz: 1-6=-5, 3-4=-18, 3-7=-38
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 5=-399(B) 8=-398(B) 9=-399(B) 10=-399(B) 11=-400(B) 12=-400(B) 13=-400(B)
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-108(F=-60)

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-55, 4-6=-20
Horz: 1-6=14, 3-4=3, 3-7=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 5=-399(B) 8=-398(B) 9=-399(B) 10=-399(B) 11=-400(B) 12=-400(B) 13=-400(B)
Trapezoidal Loads (plf)
Vert: 2=-55-to-3=-115(F=-60)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-48, 4-6=-20
Horz: 1-6=-3, 3-4=-14, 3-7=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 5=-399(B) 8=-398(B) 9=-399(B) 10=-399(B) 11=-400(B) 12=-400(B) 13=-400(B)
Trapezoidal Loads (plf)
Vert: 2=-48-to-3=-108(F=-60)

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T13	Roof Special	2	1	I51164964
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:31 2022 Page 1
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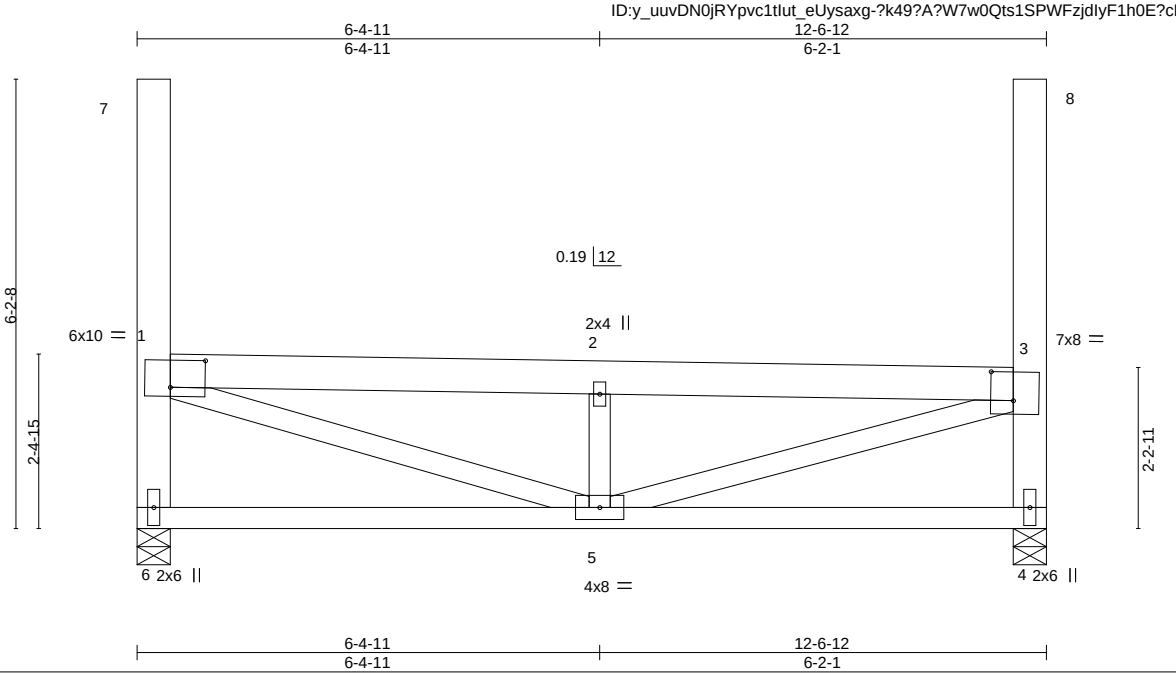

Plate Offsets (X,Y)-- [1:0-5-12,0-4-8], [3:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 93 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-405(LC 11)
Max Uplift 6=-82(LC 11), 4=-145(LC 12)
Max Grav 6=906(LC 6), 4=1055(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-855/644, 1-2=-1451/449, 2-3=-1456/441, 3-4=-1007/639
BOT CHORD 5-6=-1043/1006, 4-5=-286/346
WEBS 1-5=-1172/1406, 2-5=-640/413, 3-5=-1220/1423

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=145.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150(B=-80)-to-2=-70, 2=-70-to-3=-150(B=-80)

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-180(F=-60, B=-60)-to-2=-60, 2=-60-to-3=-240(F=-60, B=-60)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159(F=-60, B=-60)-to-2=-39, 2=-39-to-3=-219(F=-60, B=-60)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-184(F=-60, B=-60)-to-2=-64, 2=-64-to-3=-244(F=-60, B=-60)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122(B=-80)-to-2=-42, 2=-42-to-3=-122(B=-80)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156(B=-80)-to-2=-76, 2=-76-to-3=-156(B=-80)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-6=-20
      Horz: 1-6=18, 1-7=38, 3-4=5, 3-8=25
      Drag: 1-3=0
   Trapezoidal Loads (plf)
      Vert: 1=-175(F=-60, B=-60)-to-2=-55, 2=-55-to-3=-235(F=-60, B=-60)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-6=-20
      Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-38
      Drag: 1-3=0
   Trapezoidal Loads (plf)
      Vert: 1=-168(F=-60, B=-60)-to-2=-48, 2=-48-to-3=-228(F=-60, B=-60)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-6=-20
      Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
      Drag: 1-3=0
   Trapezoidal Loads (plf)
      Vert: 1=-175(F=-60, B=-60)-to-2=-55, 2=-55-to-3=-235(F=-60, B=-60)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-6=-20
      Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
      Drag: 1-3=0
   Trapezoidal Loads (plf)
      Vert: 1=-168(F=-60, B=-60)-to-2=-48, 2=-48-to-3=-228(F=-60, B=-60)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150(B=-80)-to-2=-70, 2=-70-to-3=-150(B=-80)

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T13G	Roof Special Girder	1	1	I51164965
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:32 2022 Page 1
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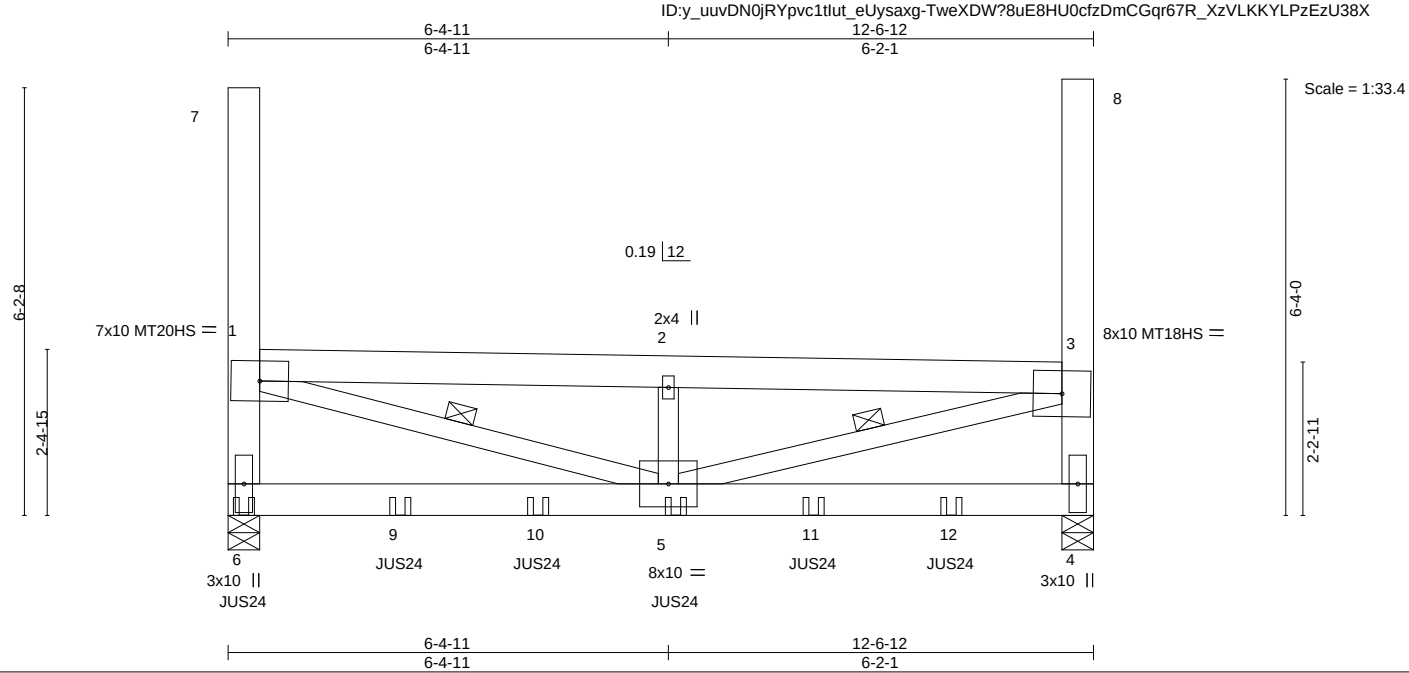

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.14	5-6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.15	5-6	>986	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.00	4	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 103 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-8 oc bracing.
WEBS 1 Row at midpt 1-5, 3-5

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-406(LC 11)
Max Uplift 6=-1032(LC 11), 4=-868(LC 12)
Max Grav 6=1721(LC 54), 4=1507(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1146/1122, 1-2=-2711/1973, 2-3=-2716/1967, 3-4=-1211/1138
BOT CHORD 5-6=-1142/1099, 4-5=-400/379
WEBS 1-5=-2712/2747, 2-5=-502/528, 3-5=-2737/2793

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1032, 4=868.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 0-2-12 from the left end to connect truss(es) to back face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 4-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 6-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 8-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

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NOTES-

16) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 10-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
17) Fill all nail holes where hanger is in contact with lumber.
18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-185(B) 5=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70, 2=-70-to-3=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-157(B) 5=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60, 2=-60-to-3=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-157(B) 5=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39, 2=-39-to-3=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-157(B) 5=-150(B) 9=-150(B) 10=-150(B) 11=-150(B) 12=-150(B)
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-2=-64, 2=-64-to-3=-124
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-185(B) 5=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42, 2=-42-to-3=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-20
   Concentrated Loads (lb)
   Vert: 6=-185(B) 5=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B)
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-2=-76, 2=-76-to-3=-156
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=18, 1-7=38, 3-4=5, 3-8=25
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 6=139(B) 5=147(B) 9=147(B) 10=147(B) 11=147(B) 12=148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55, 2=-55-to-3=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-38
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 6=139(B) 5=147(B) 9=147(B) 10=147(B) 11=147(B) 12=148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48, 2=-48-to-3=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-20
   Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
   Drag: 1-3=0
   Concentrated Loads (lb)
   Vert: 6=139(B) 5=147(B) 9=147(B) 10=147(B) 11=147(B) 12=148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55, 2=-55-to-3=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 6=139(B) 5=147(B) 9=147(B) 10=147(B) 11=147(B) 12=148(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 2=-48-to-3=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Concentrated Loads (lb)
Vert: 6=-185(B) 5=-178(B) 9=-178(B) 10=-178(B) 11=-178(B) 12=-178(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 2=-70-to-3=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 1-7=38, 3-4=5, 3-8=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 6=-309(B) 5=-303(B) 9=-302(B) 10=-302(B) 11=-303(B) 12=-303(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 2=-55-to-3=-115

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 1-7=-25, 3-4=-18, 3-8=-38
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 6=-309(B) 5=-303(B) 9=-302(B) 10=-302(B) 11=-303(B) 12=-303(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 2=-48-to-3=-108

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 1-7=-25, 3-4=3, 3-8=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 6=-309(B) 5=-303(B) 9=-302(B) 10=-302(B) 11=-303(B) 12=-303(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55, 2=-55-to-3=-115

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 1-7=-25, 3-4=-14, 3-8=25
Drag: 1-3=0
Concentrated Loads (lb)
Vert: 6=-309(B) 5=-303(B) 9=-302(B) 10=-302(B) 11=-303(B) 12=-303(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48, 2=-48-to-3=-108

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T14	Roof Special	5	1	I51164966
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:33 2022 Page 1
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7-6-9	15-1-2	21-7-7	28-1-12	34-3-13	40-5-14
7-6-9	7-6-9	6-6-5	6-6-5	6-2-1	6-2-1

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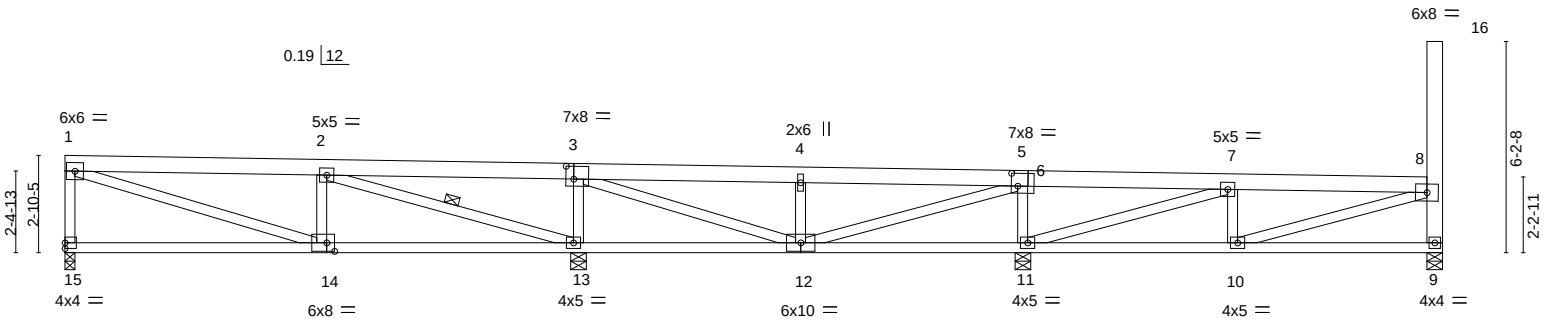

7-6-9	15-1-2	21-7-7	28-1-12	28-1-14	34-3-13	40-5-14
7-6-9	7-6-9	6-6-5	6-6-5	0-0-2	6-1-15	6-2-1

Plate Offsets (X,Y)-- [3:0-2-12,0-4-8], [5:0-2-4,0-4-8], [14:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.13	14-15	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
9-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-13

REACTIONS. All bearings 0-5-8 except (jt=length) 15=0-3-8.
(lb) - Max Horz 15=-287(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13, 11
Max Grav All reactions 250 lb or less at joint(s) except 15=639(LC 22), 9=691(LC 22), 13=1508(LC 22), 11=1379(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-567/239, 1-2=-1038/350, 2-3=-258/420, 3-4=-426/262, 4-5=-426/257, 5-7=-296/415, 7-8=-860/514, 8-9=-630/237
BOT CHORD 14-15=-344/313, 13-14=-529/1022, 12-13=-470/296, 11-12=-411/233, 10-11=-241/853
WEBS 1-14=-381/1018, 2-13=-1506/506, 3-13=-905/378, 3-12=-284/942, 4-12=-450/242, 5-12=-256/872, 5-11=-835/351, 7-11=-1325/497, 8-10=-365/737

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 13, 11.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-60, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-39, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-39-to-8=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-67, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-67-to-8=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-42, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-42-to-8=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-79, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-79-to-8=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-55, 9-15=-20
      Horz: 1-15=18, 8-9=5, 8-16=38
      Drag: 1-8=0
   Trapezoidal Loads (plf)
      Vert: 7=-55-to-8=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-48, 9-15=-20
      Horz: 1-15=-5, 8-9=-18, 8-16=-38
      Drag: 1-8=0
   Trapezoidal Loads (plf)
      Vert: 7=-48-to-8=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-55, 9-15=-20
      Horz: 1-15=14, 8-9=3, 8-16=25
      Drag: 1-8=0
   Trapezoidal Loads (plf)
      Vert: 7=-55-to-8=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-48, 9-15=-20
      Horz: 1-15=-3, 8-9=-14, 8-16=25
      Drag: 1-8=0
   Trapezoidal Loads (plf)
      Vert: 7=-48-to-8=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-70, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 7=-70-to-8=-150

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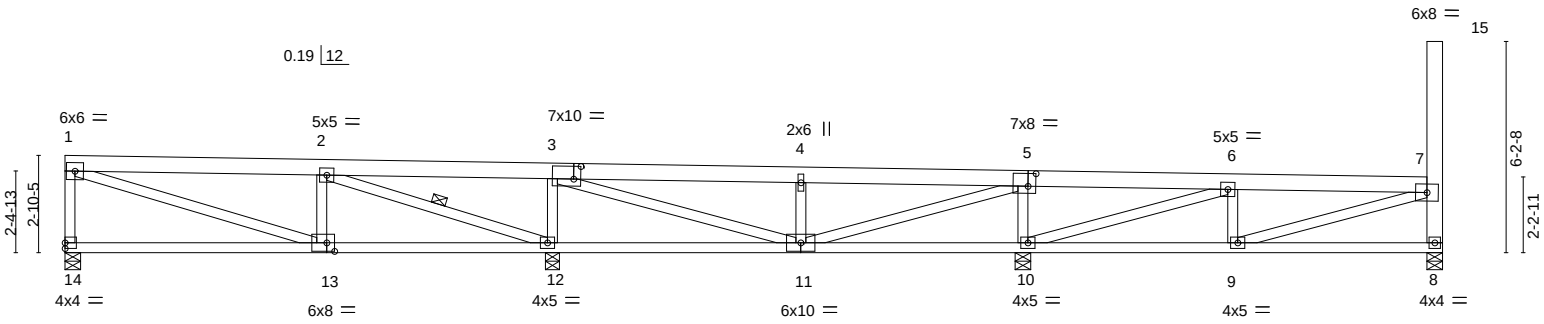
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T14A	Roof Special	1	1	I51164967
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-PJmHdC1OQrO_kJm14eogLFwX5EhnRKRdosqW16zU38V

7-6-9	14-3-15	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	6-9-6	7-3-10	6-6-5	6-2-0	6-2-0

Scale = 1:67.7



7-6-9	14-3-15	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	6-9-6	7-3-10	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [3:0-2-8,0-4-8], [5:0-2-12,0-4-8], [13:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.03	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.13	13-14	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-12

REACTIONS. All bearings 0-5-8 except (jt=length) 12=0-4-15.
(lb) - Max Horz 14=-287(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) except 14=592(LC 22), 8=686(LC 22), 12=1517(LC 22), 10=1423(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-518/229, 1-2=-873/310, 2-3=-280/464, 3-4=-546/297, 4-5=-548/292, 5-6=-292/424, 6-7=-839/508, 7-8=-625/235
BOT CHORD 13-14=-344/314, 12-13=-479/860, 11-12=-460/286, 10-11=-486/257, 9-10=-234/833
WEBS 1-13=-339/843, 2-12=-1398/481, 3-12=-903/375, 3-11=-308/1049, 4-11=-499/267, 5-11=-314/1076, 5-10=-888/363, 6-10=-1313/488, 7-9=-359/715

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 12, 10.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-55, 8-14=-20
      Horz: 1-14=18, 7-8=5, 7-15=38
      Drag: 1-7=0
   Trapezoidal Loads (plf)
      Vert: 6=-55-to-7=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-48, 8-14=-20
      Horz: 1-14=-5, 7-8=-18, 7-15=-38
      Drag: 1-7=0
   Trapezoidal Loads (plf)
      Vert: 6=-48-to-7=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-55, 8-14=-20
      Horz: 1-14=14, 7-8=3, 7-15=25
      Drag: 1-7=0
   Trapezoidal Loads (plf)
      Vert: 6=-55-to-7=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-48, 8-14=-20
      Horz: 1-14=-3, 7-8=-14, 7-15=25
      Drag: 1-7=0
   Trapezoidal Loads (plf)
      Vert: 6=-48-to-7=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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MiTek
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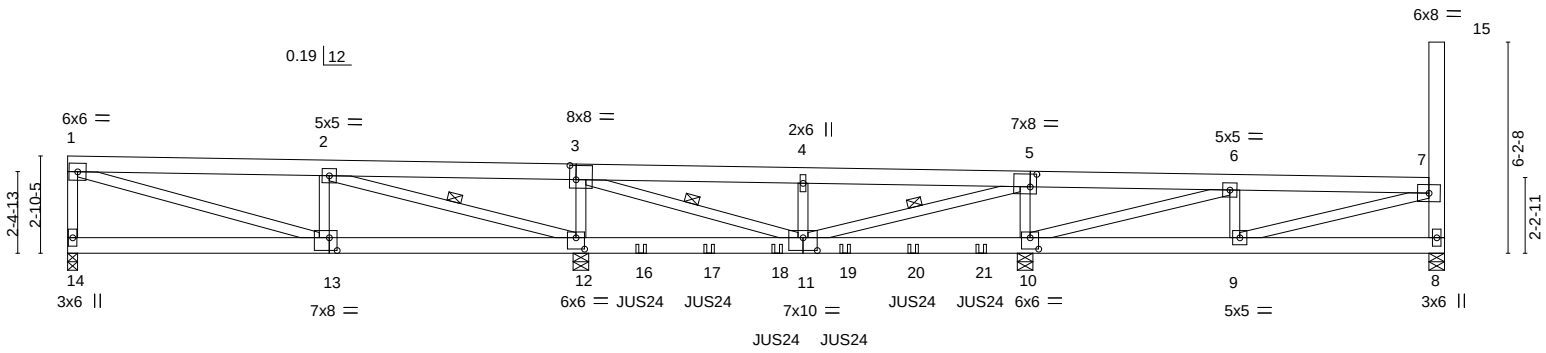
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T14G	Roof Special Girder	1	1	I51164968
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-Lht12t3fyTfizdwQC3r8Qg0ta2MpvF?wFAJd6?zU38T

7-6-9	15-1-2	21-7-8	28-1-14	34-3-14	40-5-14
7-6-9	7-6-9	6-6-6	6-6-6	6-2-0	6-2-0

Scale = 1:67.8



7-6-9	15-1-2	21-7-8	28-1-14	34-3-14	40-5-14
7-6-9	7-6-9	6-6-6	6-6-6	6-2-0	6-2-0

Plate Offsets (X,Y)-- [3:0-2-4,0-5-0], [5:0-2-4,0-4-8], [10:0-3-0,0-4-0], [11:0-5-0,0-4-8], [12:0-3-0,0-4-0], [13:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.15	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.16	10-11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 275 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-12, 3-11, 5-11

REACTIONS. All bearings 0-5-8 except (jt=length) 14=0-3-8.
(lb) - Max Horz 14=-284(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-119(LC 44), 8=-167(LC 40), 12=-1150(LC 12), 10=-1230(LC 16)
Max Grav All reactions 250 lb or less at joint(s) except 14=603(LC 22), 8=655(LC 22), 12=2179(LC 49), 10=2106(LC 51)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-513/322, 1-2=-1005/650, 2-3=-574/708, 3-4=-1725/1606, 4-5=-1726/1602, 5-6=-567/649, 6-7=-1022/855, 7-8=-565/350
BOT CHORD	13-14=-351/301, 12-13=-866/1134, 11-12=-816/736, 10-11=-704/604, 9-10=-584/861, 8-9=-231/277
WEBS	1-13=-684/970, 2-13=-182/254, 2-12=-1506/530, 3-12=-1210/982, 3-11=-2162/2500, 4-11=-430/334, 5-11=-2083/2395, 5-10=-1159/948, 6-10=-1234/517, 7-9=-756/900

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 14, 167 lb uplift at joint 8, 1150 lb uplift at joint 12 and 1230 lb uplift at joint 10.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 16-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 18-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 20-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

Continued on page 2

April 5,2022

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NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 22-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 24-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 26-10-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-139(B) 17=-139(B) 18=-139(B) 19=-139(B) 20=-139(B) 21=-139(B)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-116(B) 17=-116(B) 18=-116(B) 19=-116(B) 20=-116(B) 21=-116(B)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-116(B) 17=-116(B) 18=-116(B) 19=-116(B) 20=-116(B) 21=-116(B)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-116(B) 17=-116(B) 18=-116(B) 19=-116(B) 20=-116(B) 21=-116(B)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-139(B) 17=-139(B) 18=-139(B) 19=-139(B) 20=-139(B) 21=-139(B)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-139(B) 17=-139(B) 18=-139(B) 19=-139(B) 20=-139(B) 21=-139(B)
   Trapezoidal Loads (plf)
   Vert: 6=-79-to-7=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-55, 8-14=-20
   Horz: 1-14=18, 7-8=5, 7-15=38
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=206(B) 17=206(B) 18=207(B) 19=207(B) 20=207(B) 21=208(B)
   Trapezoidal Loads (plf)
   Vert: 6=-55-to-7=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-48, 8-14=-20
   Horz: 1-14=-5, 7-8=-18, 7-15=-38
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=206(B) 17=206(B) 18=207(B) 19=207(B) 20=207(B) 21=208(B)
   Trapezoidal Loads (plf)
   Vert: 6=-48-to-7=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-55, 8-14=-20
   Horz: 1-14=14, 7-8=3, 7-15=25
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 16=206(B) 17=206(B) 18=207(B) 19=207(B) 20=207(B) 21=208(B)

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-3, 7-8=-14, 7-15=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=206(B) 17=206(B) 18=207(B) 19=207(B) 20=207(B) 21=208(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-139(B) 17=-139(B) 18=-139(B) 19=-139(B) 20=-139(B) 21=-139(B)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 8-14=-20
Horz: 1-14=18, 7-8=5, 7-15=38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-323(B) 17=-323(B) 18=-323(B) 19=-324(B) 20=-324(B) 21=-324(B)
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-5, 7-8=-18, 7-15=-38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-323(B) 17=-323(B) 18=-323(B) 19=-324(B) 20=-324(B) 21=-324(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 8-14=-20
Horz: 1-14=14, 7-8=3, 7-15=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-323(B) 17=-323(B) 18=-323(B) 19=-324(B) 20=-324(B) 21=-324(B)
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-3, 7-8=-14, 7-15=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 16=-323(B) 17=-323(B) 18=-323(B) 19=-324(B) 20=-324(B) 21=-324(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

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Chesterfield, MO 63017

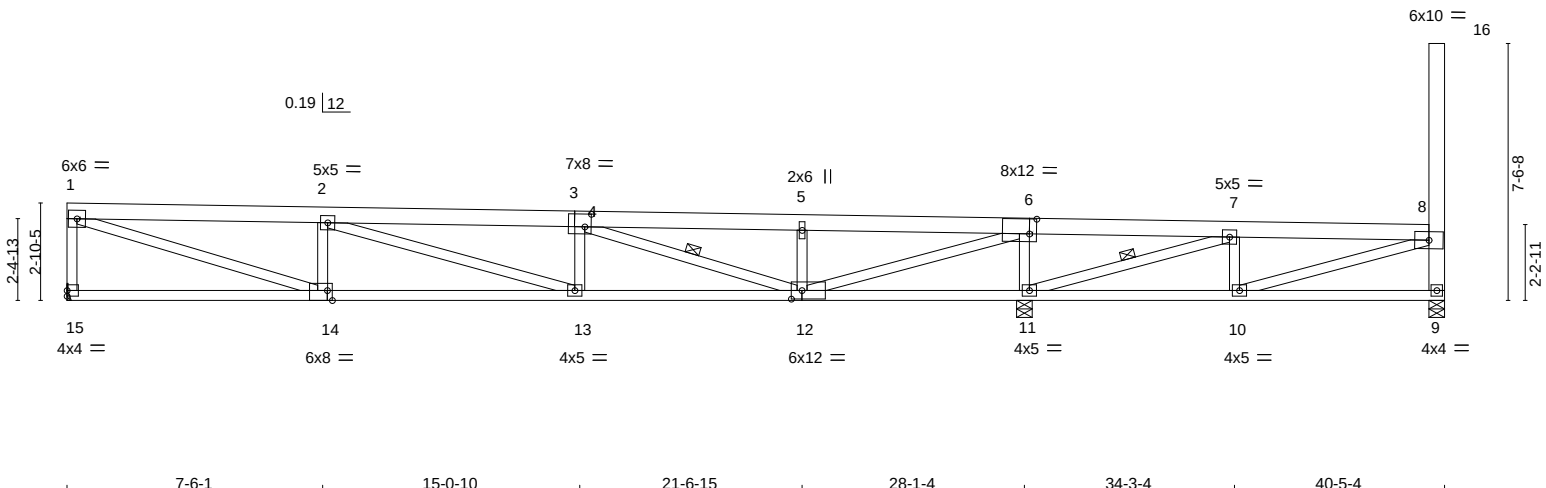
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T15	Roof Special	2	1	I51164969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:37 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-quRQGD3HjmnZbnUcmmMNzuYw5SaMegr3Uq3AeRzU38S

7-6-1	15-0-10	21-6-15	28-1-4	34-3-4	40-5-4
7-6-1	7-6-9	6-6-5	6-6-5	6-2-0	6-2-0

Scale = 1:67.6



7-6-1	15-0-10	21-6-15	28-1-4	34-3-4	40-5-4
7-6-1	7-6-9	6-6-5	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [3:0-2-4,0-4-8], [6:0-2-8,0-5-4], [12:0-3-12,0-3-0], [14:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.24	13-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.50	13-14	>664	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 246 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 9-16: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-8-8 oc bracing.
WEBS	1 Row at midpt 4-12, 7-11

REACTIONS. (size) 15=Mechanical, 9=0-5-8, 11=0-5-8
Max Horz 15=-355(LC 11)
Max Uplift 15=-61(LC 16), 9=-83(LC 12), 11=-158(LC 16)
Max Grav 15=1213(LC 22), 9=399(LC 22), 11=2599(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-15=-1140/394, 1-2=-2860/843, 2-4=-3278/1016, 4-5=-1594/605, 5-6=-1597/600, 6-7=-833/2023, 7-8=-690/528, 8-9=-339/194
BOT CHORD	14-15=-443/378, 13-14=-1141/2810, 12-13=-1199/3273, 11-12=-2151/716, 10-11=-295/269, 9-10=-346/455
WEBS	1-14=-897/2925, 2-14=-768/384, 2-13=-211/485, 4-12=-1780/564, 5-12=-450/243, 6-12=-1182/3913, 6-11=-1823/654, 7-11=-2070/792, 8-10=-338/276

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-8, Corner(3) 35-2-8 to 40-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 15, 83 lb uplift at joint 9 and 158 lb uplift at joint 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-8=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-8=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-67, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-67-to-8=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-8=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-79-to-8=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=18, 8-9=5, 8-16=38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-5, 8-9=-18, 8-16=-38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=14, 8-9=3, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-3, 8-9=-14, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T15A	Roof Special	1	1	I51164970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:38 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-I4?oTZ4vU4vQCx3oJUtcW55D4s2tNEGDjTokAtzU38R

7-6-9	12-3-15	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	4-9-6	9-3-10	6-6-5	6-2-0	6-2-0

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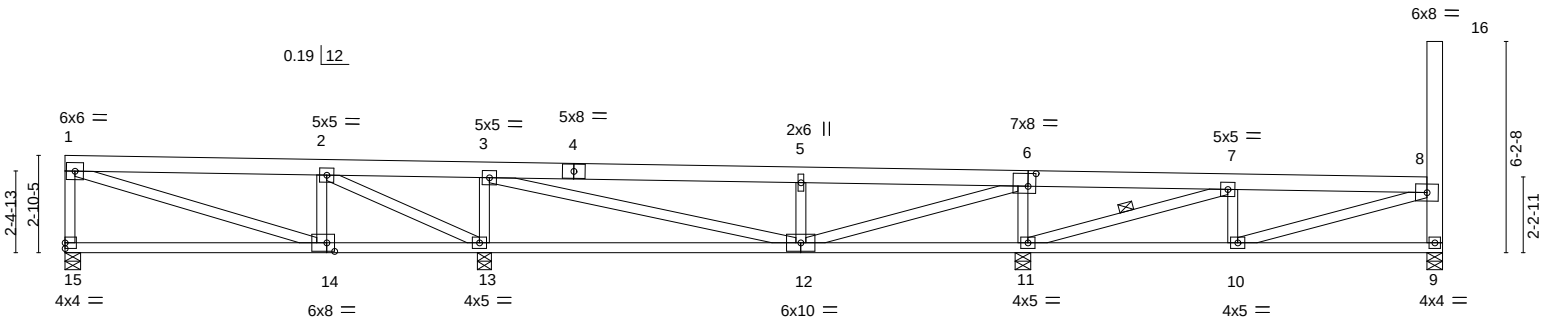

7-6-9	12-3-15	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	4-9-6	9-3-10	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [6:0-2-12,0-4-8], [14:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.05	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22	12-13	>878	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	-0.01	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
9-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-11

REACTIONS. All bearings 0-5-8 except (jt=length) 13=0-4-15.
(lb) - Max Horz 15=-287(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13 except 11=-102(LC 16)
Max Grav All reactions 250 lb or less at joint(s) except 15=479(LC 22), 9=653(LC 22), 13=1499(LC 22), 11=1587(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-403/207, 1-2=-482/219, 2-3=-261/369, 3-5=-842/381, 5-6=-842/375, 6-7=-344/631, 7-8=-745/477, 8-9=-592/227
BOT CHORD 14-15=-343/314, 13-14=-355/492, 12-13=-367/252, 11-12=-703/323, 10-11=-204/737
WEBS 1-14=-244/430, 2-13=-939/350, 3-13=-920/385, 3-12=-353/1239, 5-12=-613/325, 6-12=-456/1610, 6-11=-1024/389, 7-11=-1430/523, 8-10=-334/617

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 13 except (jt=lb) 11=102.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20

April 5,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-8=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-8=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-67, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-67-to-8=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-8=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-79-to-8=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=18, 8-9=5, 8-16=38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-5, 8-9=-18, 8-16=-38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=14, 8-9=3, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-3, 8-9=-14, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

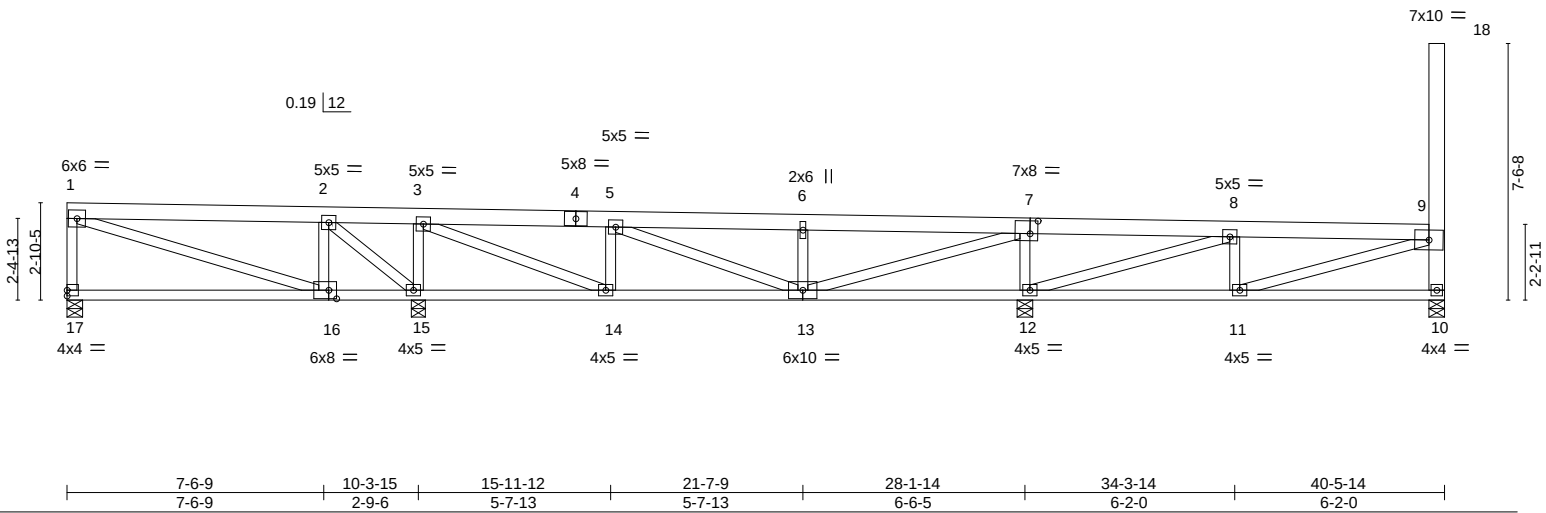
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T15B	Roof Special	1	1	I51164971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:39 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-mGZAhv5XFO1Hq4e?tBOr2JeGbFPT6a6Mx7YHiKzU38Q

7-6-9	10-3-15	15-11-12	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	2-9-6	5-7-13	5-7-13	6-6-5	6-2-0	6-2-0

Scale = 1:67.7



7-6-9	10-3-15	15-11-12	21-7-9	28-1-14	34-3-14	40-5-14
7-6-9	2-9-6	5-7-13	5-7-13	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [7:0-2-12,0-4-8], [16:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.05	13-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.11	13-14	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.01	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 250 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-18: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8 except (jt=length) 15=0-4-15.
(lb) - Max Horz 17=-355(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 10 except 15=-107(LC 12), 12=-122(LC 16)
Max Grav All reactions 250 lb or less at joint(s) except 17=292(LC 22), 10=660(LC 22), 15=1629(LC 22), 12=1635(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-413/814, 3-5=-722/372, 5-6=-938/444, 6-7=-940/440, 7-8=-391/554, 8-9=-865/633, 9-10=-599/272
BOT CHORD 16-17=-434/384, 15-16=-261/281, 14-15=-811/435, 13-14=-401/719, 12-13=-630/317, 11-12=-291/751, 10-11=-351/450
WEBS 2-15=-997/363, 3-15=-906/309, 3-14=-482/1654, 5-14=-518/255, 6-13=-451/237, 7-13=-484/1636, 7-12=-1080/427, 8-12=-1364/606, 9-11=-441/635

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10 except (jt=lb) 15=107, 12=122.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-17=-20

April 5,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-67, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-67-to-9=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-79, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-55, 10-17=-20
Horz: 1-17=18, 9-10=5, 9-18=38
Drag: 1-9=0
Trapezoidal Loads (plf)
Vert: 8=-55-to-9=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-48, 10-17=-20
Horz: 1-17=-5, 9-10=-18, 9-18=-38
Drag: 1-9=0
Trapezoidal Loads (plf)
Vert: 8=-48-to-9=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-55, 10-17=-20
Horz: 1-17=14, 9-10=3, 9-18=25
Drag: 1-9=0
Trapezoidal Loads (plf)
Vert: 8=-55-to-9=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-48, 10-17=-20
Horz: 1-17=-3, 9-10=-14, 9-18=25
Drag: 1-9=0
Trapezoidal Loads (plf)
Vert: 8=-48-to-9=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-17=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

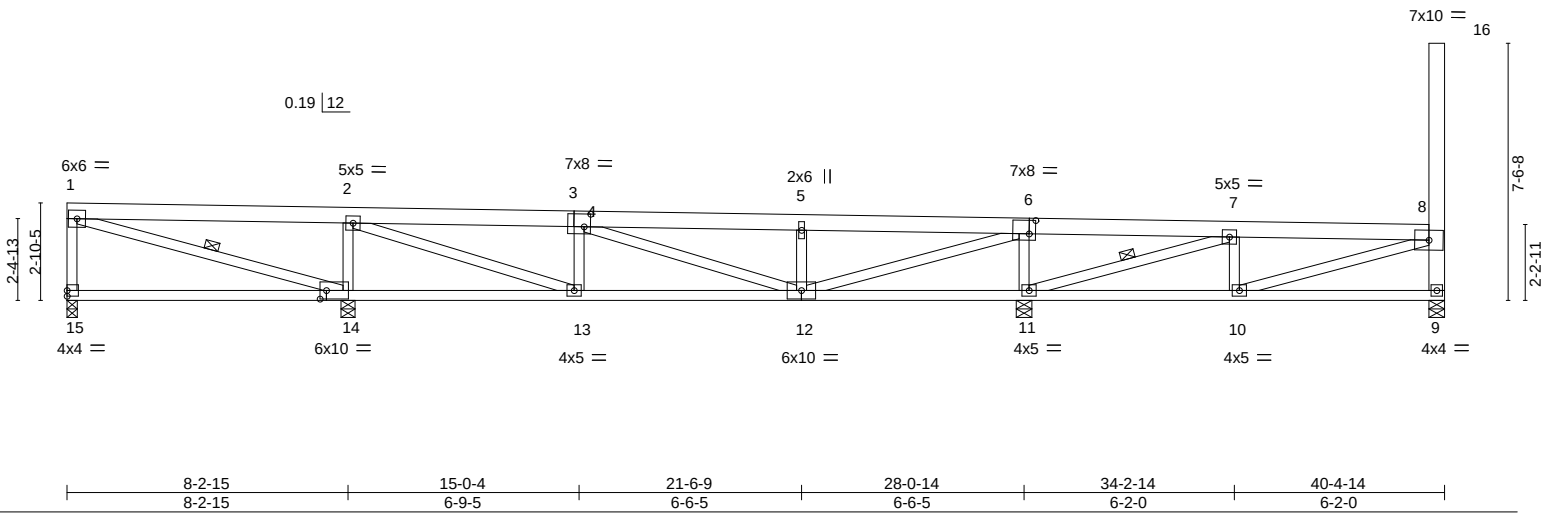
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T15C	Roof Special	1	1	I51164972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:40 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-ET7YuF69?h98SEDBRvv4bWARLfkLr9bVAnHqFmzU38P

8-2-15	15-0-4	21-6-9	28-0-14	34-2-14	40-4-14
8-2-15	6-9-5	6-6-5	6-6-5	6-2-0	6-2-0

Scale = 1:67.6



8-2-15	15-0-4	21-6-9	28-0-14	34-2-14	40-4-14
8-2-15	6-9-5	6-6-5	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [3:0-2-4,0-4-8], [6:0-2-4,0-4-12], [14:0-2-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.08	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	12-13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 246 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
9-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-14, 7-11

REACTIONS. All bearings 0-5-8 except (jt=length) 15=0-3-10, 14=0-4-15.
(lb) - Max Horz 15=-355(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 9 except 14=-104(LC 12), 11=-129(LC 16)
Max Grav All reactions 250 lb or less at joint(s) 15 except 9=625(LC 22), 14=1637(LC 22), 11=1798(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-293/580, 2-4=-1128/462, 4-5=-1157/493, 5-6=-1159/488, 6-7=-445/753, 7-8=-794/602, 8-9=-565/263
BOT CHORD 14-15=-433/385, 13-14=-577/405, 12-13=-542/1125, 11-12=-838/378, 10-11=-261/647, 9-10=-350/451
WEBS 1-14=-660/348, 2-14=-1271/513, 2-13=-534/1801, 4-13=-471/249, 5-12=-495/260, 6-12=-623/2083, 6-11=-1214/467, 7-11=-1463/636, 8-10=-412/555

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-2, Corner(3) 35-2-2 to 40-2-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9 except (jt=lb) 14=104, 11=129.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-8=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-8=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-67, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-67-to-8=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-8=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-79-to-8=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=18, 8-9=5, 8-16=38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-5, 8-9=-18, 8-16=-38
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-107

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=14, 8-9=3, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-3, 8-9=-14, 8-16=25
Drag: 1-8=0
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-107

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

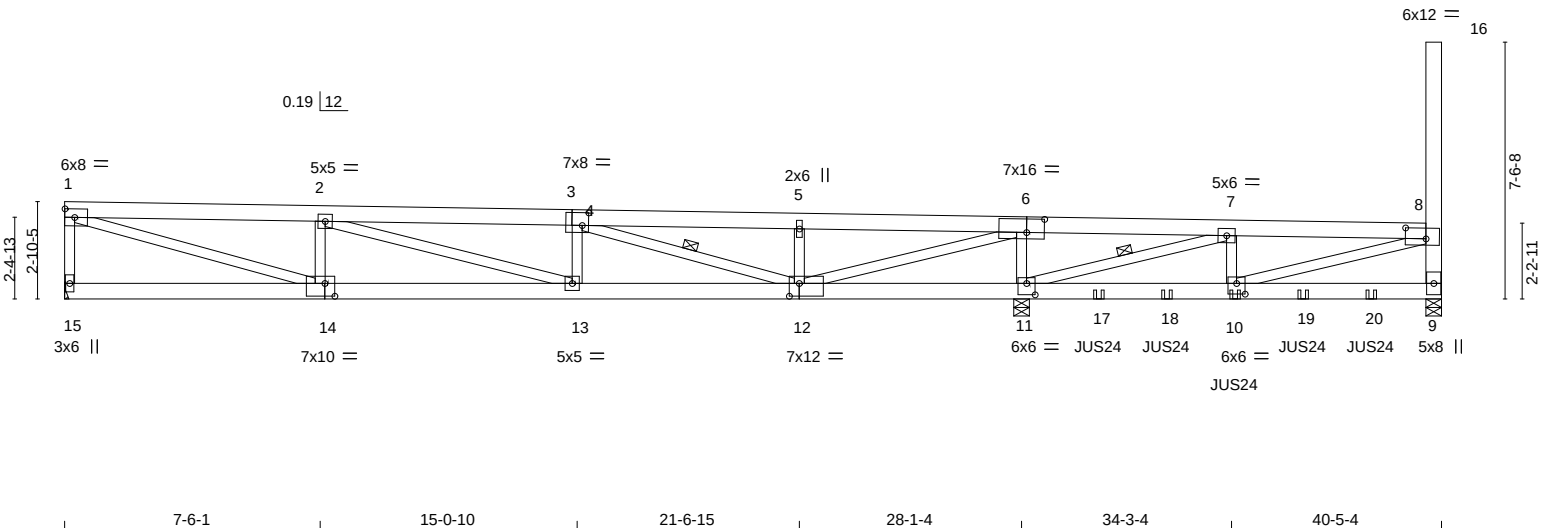
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T15G	Roof Special Girder	1	1	I51164973
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:42 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ArFJJx7QXJPshYNaYKyYgxGnqTOIJwYod5mxJfzU38N

7-6-1	15-0-10	21-6-15	28-1-4	34-3-4	40-5-4
7-6-1	7-6-9	6-6-5	6-6-5	6-2-0	6-2-0

Scale = 1:67.7



7-6-1	15-0-10	21-6-15	28-1-4	34-3-4	40-5-4
7-6-1	7-6-9	6-6-5	6-6-5	6-2-0	6-2-0

Plate Offsets (X,Y)-- [1:0-3-7,0-3-0], [3:0-2-4,0-4-8], [6:0-6-4,0-4-12], [8:0-7-4,0-3-12], [10:0-3-0,0-3-12], [11:0-3-0,0-4-0], [12:0-3-8,0-4-8], [14:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.20	13-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.42	13-14	>800	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 278 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 9-16: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-6-8 oc bracing.
WEBS	1 Row at midpt 4-12, 7-11

REACTIONS. (size) 15=Mechanical, 9=0-5-8, 11=0-5-8
Max Horz 15=-352(LC 39)
Max Uplift 15=-82(LC 44), 9=-799(LC 12), 11=-759(LC 16)
Max Grav 15=1197(LC 22), 9=1147(LC 49), 11=3131(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-15=-1109/406, 1-2=-2879/926, 2-4=-3278/1172, 4-5=-1409/829, 5-6=-1411/824, 6-7=-972/2123, 7-8=-2138/1894, 8-9=-739/593
BOT CHORD	14-15=-450/363, 13-14=-1235/2828, 12-13=-1387/3273, 11-12=-2254/914, 10-11=-1664/1717, 9-10=-575/704
WEBS	1-14=-966/2921, 2-14=-759/404, 2-13=-290/465, 4-12=-1969/681, 5-12=-441/261, 6-12=-1244/3813, 6-11=-1781/676, 7-11=-3305/2318, 7-10=-528/777, 8-10=-1578/1645

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-8, Corner(3) 35-2-8 to 40-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 9=799, 11=759.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 30-4-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 32-4-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 34-4-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

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Continued on page 2

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 36-4-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 38-4-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-199(F) 17=-194(F) 18=-199(F) 19=-199(F) 20=-199(F)
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-168(F) 17=-164(F) 18=-168(F) 19=-168(F) 20=-168(F)
   Trapezoidal Loads (plf)
   Vert: 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-168(F) 17=-164(F) 18=-168(F) 19=-168(F) 20=-168(F)
   Trapezoidal Loads (plf)
   Vert: 7=-39-to-8=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-67, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-168(F) 17=-164(F) 18=-168(F) 19=-168(F) 20=-168(F)
   Trapezoidal Loads (plf)
   Vert: 7=-67-to-8=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-199(F) 17=-194(F) 18=-199(F) 19=-199(F) 20=-199(F)
   Trapezoidal Loads (plf)
   Vert: 7=-42-to-8=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-79, 9-15=-20
   Concentrated Loads (lb)
   Vert: 10=-199(F) 17=-194(F) 18=-199(F) 19=-199(F) 20=-199(F)
   Trapezoidal Loads (plf)
   Vert: 7=-79-to-8=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-55, 9-15=-20
   Horz: 1-15=18, 8-9=5, 8-16=38
   Drag: 1-8=0
   Concentrated Loads (lb)
   Vert: 10=164(F) 17=27(F) 18=164(F) 19=165(F) 20=165(F)
   Trapezoidal Loads (plf)
   Vert: 7=-55-to-8=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-48, 9-15=-20
   Horz: 1-15=-5, 8-9=-18, 8-16=-38
   Drag: 1-8=0
   Concentrated Loads (lb)
   Vert: 10=164(F) 17=27(F) 18=164(F) 19=165(F) 20=165(F)
   Trapezoidal Loads (plf)
   Vert: 7=-48-to-8=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-55, 9-15=-20
   Horz: 1-15=14, 8-9=3, 8-16=25
   Drag: 1-8=0
   Concentrated Loads (lb)
   Vert: 10=164(F) 17=27(F) 18=164(F) 19=165(F) 20=165(F)
   Trapezoidal Loads (plf)
   Vert: 7=-55-to-8=-115

Continued on page 3

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LOAD CASE(S) Standard

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-3, 8-9=-14, 8-16=25
Drag: 1-8=0
Concentrated Loads (lb)
Vert: 10=164(F) 17=27(F) 18=164(F) 19=165(F) 20=165(F)
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Concentrated Loads (lb)
Vert: 10=-199(F) 17=-194(F) 18=-199(F) 19=-199(F) 20=-199(F)
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=18, 8-9=5, 8-16=38
Drag: 1-8=0
Concentrated Loads (lb)
Vert: 10=-341(F) 17=-135(F) 18=-340(F) 19=-341(F) 20=-341(F)
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-5, 8-9=-18, 8-16=-38
Drag: 1-8=0
Concentrated Loads (lb)
Vert: 10=-341(F) 17=-135(F) 18=-340(F) 19=-341(F) 20=-341(F)
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-55, 9-15=-20
Horz: 1-15=14, 8-9=3, 8-16=25
Drag: 1-8=0
Concentrated Loads (lb)
Vert: 10=-341(F) 17=-135(F) 18=-340(F) 19=-341(F) 20=-341(F)
Trapezoidal Loads (plf)
Vert: 7=-55-to-8=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-48, 9-15=-20
Horz: 1-15=-3, 8-9=-14, 8-16=25
Drag: 1-8=0
Concentrated Loads (lb)
Vert: 10=-341(F) 17=-135(F) 18=-340(F) 19=-341(F) 20=-341(F)
Trapezoidal Loads (plf)
Vert: 7=-48-to-8=-108

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T16	Roof Special	1	1	I51164974
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:43 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-e2ohWH82IcXjJiym61TnC8o5htg32PgyslWUr5zU38M

7-6-1	15-0-10	21-6-15	28-3-10
7-6-1	7-6-9	6-6-5	6-8-11

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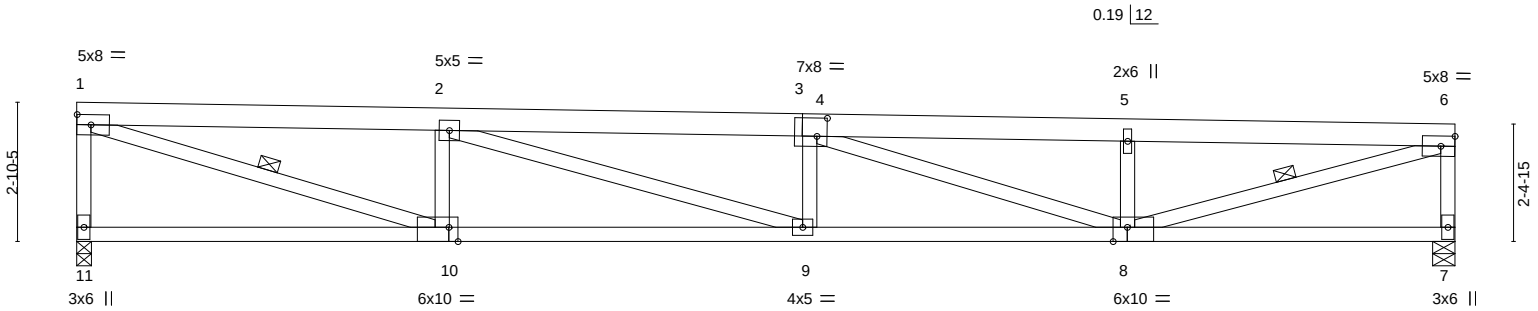

7-6-1	15-0-10	21-6-15	28-3-10
7-6-1	7-6-9	6-6-5	6-8-11

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-2-8,0-4-8], [8:0-3-8,Edge], [10:0-2-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.57	9-10	>587	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 164 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	8-10: 2x4 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-12 oc bracing.
WEBS	1 Row at midpt 1-10, 6-8

REACTIONS. (size) 11=0-3-10, 7=0-5-8
Max Horz 11=-75(LC 13)
Max Uplift 11=-60(LC 16), 7=-63(LC 12)
Max Grav 11=1364(LC 22), 7=1364(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-11=-1290/560, 1-2=-3356/1310, 2-4=-4343/1664, 4-5=-3326/1283, 5-6=-3327/1278, 6-7=-1296/551
BOT CHORD	9-10=-1294/3298, 8-9=-1684/4338
WEBS	1-10=-1347/3445, 2-10=-930/528, 2-9=-440/1090, 4-8=-1075/416, 5-8=-521/339, 6-8=-1305/3381

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T17GE	GABLE	1	1	I51164975
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:44 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7EM3kc9g3wfawsXygk_0lMLLfGBhn3655PF2OXzU38L

29-11-14
29-11-14

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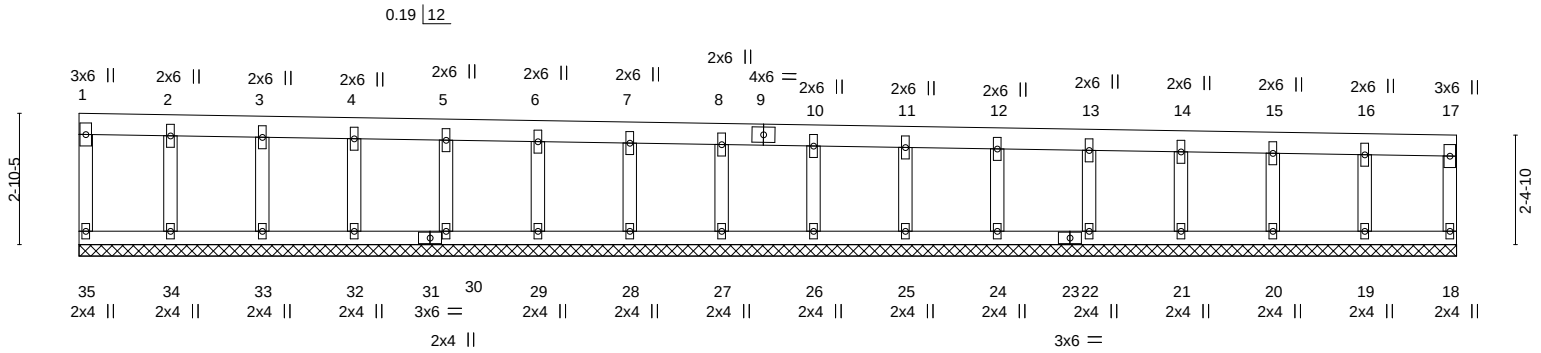

29-11-14
29-11-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 29-11-14.
(lb) - Max Horz 35=-75(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 35, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34
Max Grav All reactions 250 lb or less at joint(s) 35, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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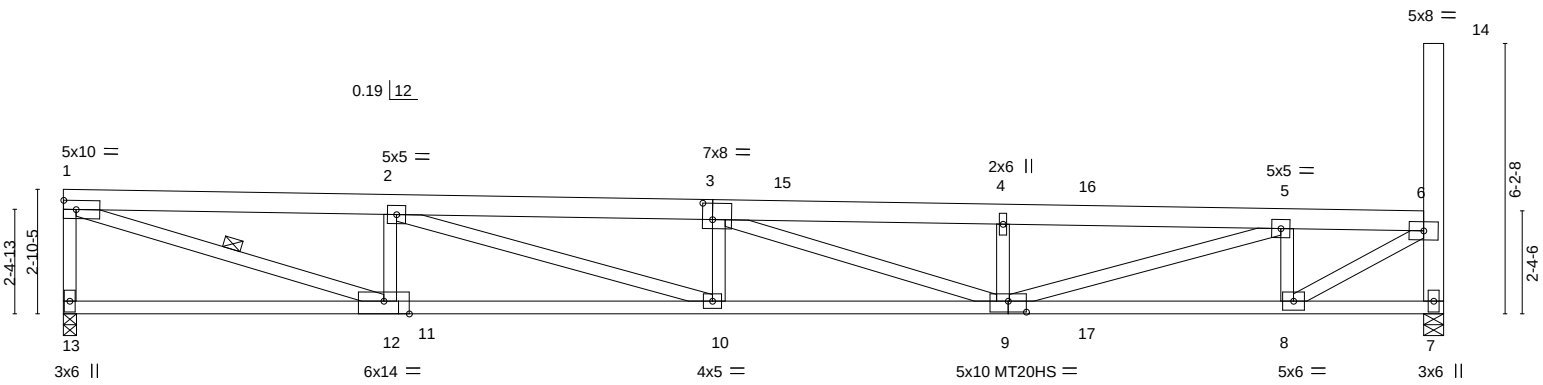
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T18	Roof Special	4	1	I51164976
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:45 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-bQwRxy9IqEnRY?68ESVFIZuPwgLmWHOFK3?bw_zU38K

7-6-1	15-0-10	21-6-15	28-1-4	31-8-6
7-6-1	7-6-9	6-6-5	6-6-5	3-7-2

Scale = 1:52.9



7-6-1	15-0-10	21-6-15	28-1-4	31-8-6
7-6-1	7-6-9	6-6-5	6-6-5	3-7-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-2-12,0-4-8], [9:0-5-0,0-3-0], [11:0-7-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.38	9-10	>984	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.75	9-10	>498	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 194 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	11-13: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	7-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-12 oc bracing.
WEBS	1 Row at midpt 1-12

REACTIONS. (size) 13=0-3-10, 7=0-5-8
Max Horz 13=-280(LC 11)
Max Uplift 13=-85(LC 16), 7=-97(LC 12)
Max Grav 13=1561(LC 22), 7=1827(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1487/590, 1-2=-3903/1380, 2-3=-5628/2041, 3-4=-5216/1971, 4-5=-5188/1948, 5-6=-2687/1210, 6-7=-1796/581
BOT CHORD	12-13=-384/307, 10-12=-1532/3897, 9-10=-1924/5598, 8-9=-930/2683
WEBS	1-12=-1458/4024, 2-12=-1133/568, 2-10=-700/1809, 3-10=-405/294, 3-9=-477/313, 4-9=-537/310, 5-9=-1075/2623, 5-8=-1434/529, 6-8=-923/3019

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-10, Corner(3) 16-5-10 to 31-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-60-to-6=-120, 17=-20-to-7=-80

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-6=-99, 17=-20-to-7=-80

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-66, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-66-to-6=-126, 17=-20-to-7=-80

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-78, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 13-17=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115, 17=-20-to-7=-80

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 13-17=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108, 17=-20-to-7=-80

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 13-17=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115, 17=-20-to-7=-80

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 13-17=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108, 17=-20-to-7=-80

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

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Chesterfield, MO 63017

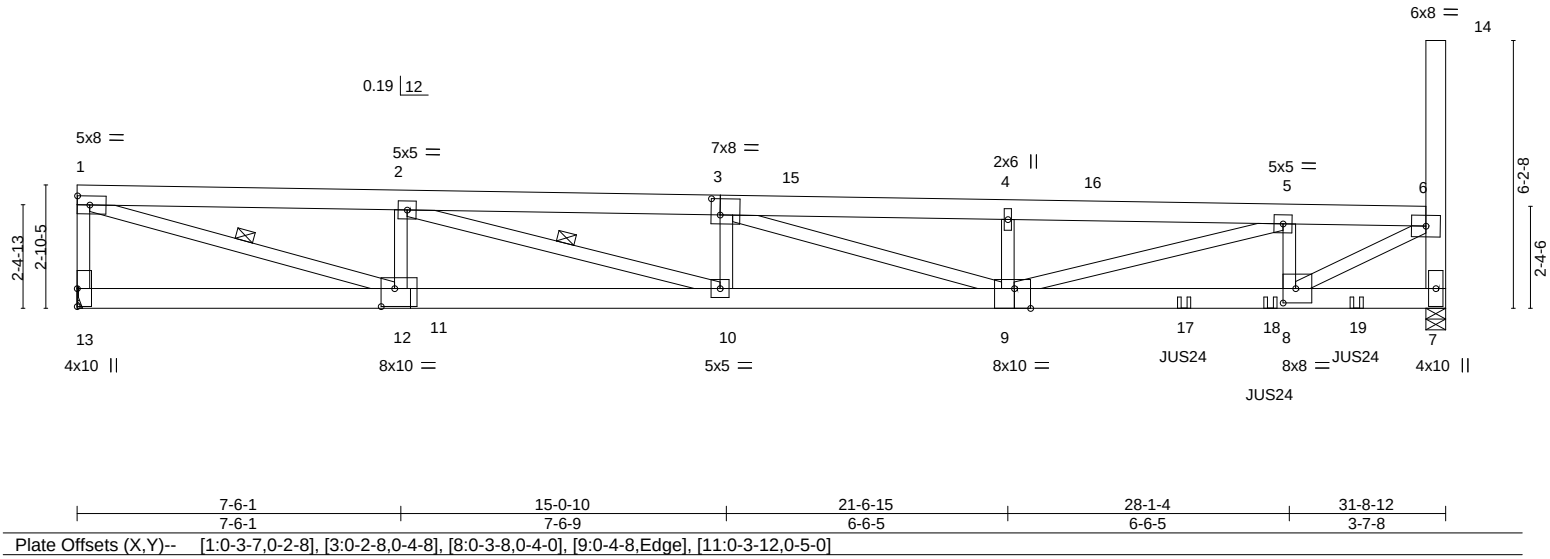
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T18G	Roof Special Girder	1	1	I51164977
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-3dUp9IAwbXvIA9hLn90UqnQaG4h5Fl8OYjk9SQzU38J

7-6-1	15-0-10	21-6-15	28-1-4	31-8-12
7-6-1	7-6-9	6-6-5	6-6-5	3-7-8

Scale = 1:53.4



7-6-1	15-0-10	21-6-15	28-1-4	31-8-12
7-6-1	7-6-9	6-6-5	6-6-5	3-7-8

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-2-8,0-4-8], [8:0-3-8,0-4-0], [9:0-4-8,Edge], [11:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.47	9-10	>808	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.77	9-10	>487	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 7-14: 2x6 SP No.1, 1-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-10-11 oc bracing.
WEBS	1 Row at midpt 1-12, 2-10

REACTIONS. (size) 13=Mechanical, 7=0-5-8
Max Horz 13=-277(LC 39)
Max Uplift 13=-260(LC 16), 7=-1352(LC 12)
Max Grav 13=1597(LC 22), 7=2468(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1510/757, 1-2=-4132/1981, 2-3=-6040/3273, 3-4=-5741/3891, 4-5=-5742/3885, 5-6=-3915/3235, 6-7=-2341/1731
BOT CHORD	12-13=-396/296, 10-12=-2127/4127, 9-10=-3134/6006, 8-9=-2957/3748, 7-8=-287/328
WEBS	1-12=-2066/4238, 2-12=-1169/742, 2-10=-1356/1994, 3-10=-448/513, 3-9=-1195/1083, 4-9=-523/314, 5-9=-1198/2628, 5-8=-1400/630, 6-8=-3140/4205

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=260, 7=1352.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 25-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 27-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 29-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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April 5,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-70, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-60, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-39, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-66, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-66-to-6=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-42, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-78, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-78-to-6=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=18, 6-7=5, 6-14=38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=326(F) 18=327(F) 19=327(F)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-48, 7-13=-20
   Horz: 1-13=-5, 6-7=-18, 6-14=-38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=326(F) 18=327(F) 19=327(F)
   Trapezoidal Loads (plf)
   Vert: 16=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=14, 6-7=3, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=326(F) 18=327(F) 19=327(F)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-48, 7-13=-20
   Horz: 1-13=-3, 6-7=-14, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=326(F) 18=327(F) 19=327(F)

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20
Concentrated Loads (lb)
Vert: 17=-92(F) 18=-92(F) 19=-92(F)
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-397(F) 18=-397(F) 19=-398(F)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-397(F) 18=-397(F) 19=-398(F)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-397(F) 18=-397(F) 19=-398(F)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-397(F) 18=-397(F) 19=-398(F)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

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MiTek
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T19	Roof Special	4	1	I51164978
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:47 2022 Page 1
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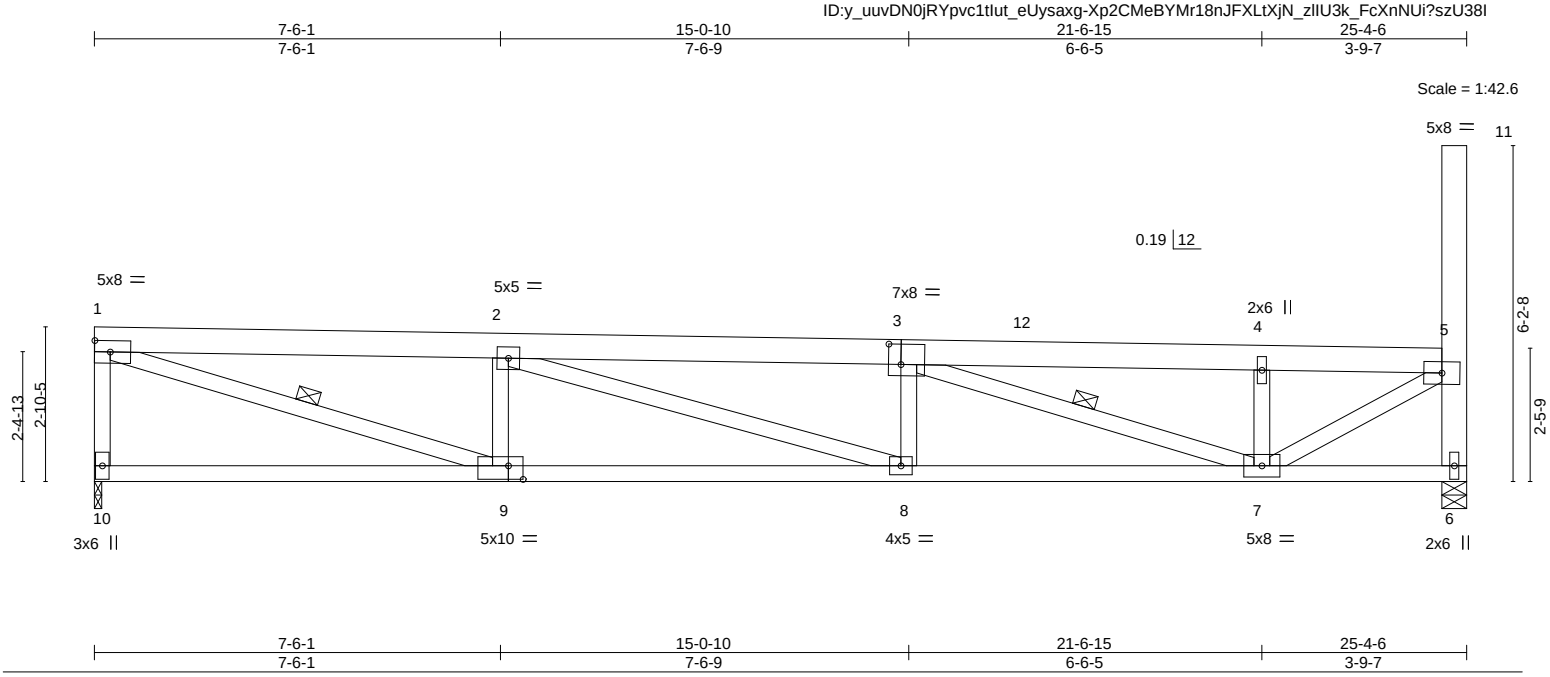

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-2-12,0-4-8], [9:0-3-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.41	8-9	>730	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 158 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 6-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-4 oc bracing.
WEBS	1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=0-1-10, 6=0-5-8
Max Horz 10=-275(LC 13)
Max Uplift 10=-75(LC 16), 6=-90(LC 12)
Max Grav 10=1245(LC 22), 6=1497(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1171/581, 1-2=-2984/1311, 2-3=-3609/1654, 3-4=-2147/1150, 4-5=-2145/1144, 5-6=-1465/580
BOT CHORD	9-10=-418/313, 8-9=-1383/2929, 7-8=-1414/3600
WEBS	1-9=-1383/3055, 2-9=-806/538, 2-8=-402/708, 3-7=-1539/884, 4-7=-621/328, 5-7=-915/2406

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-70-to-5=-150

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-65-to-5=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-77-to-5=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-70-to-5=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T19A	Roof Special	2	1	I51164979
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:48 2022 Page 1
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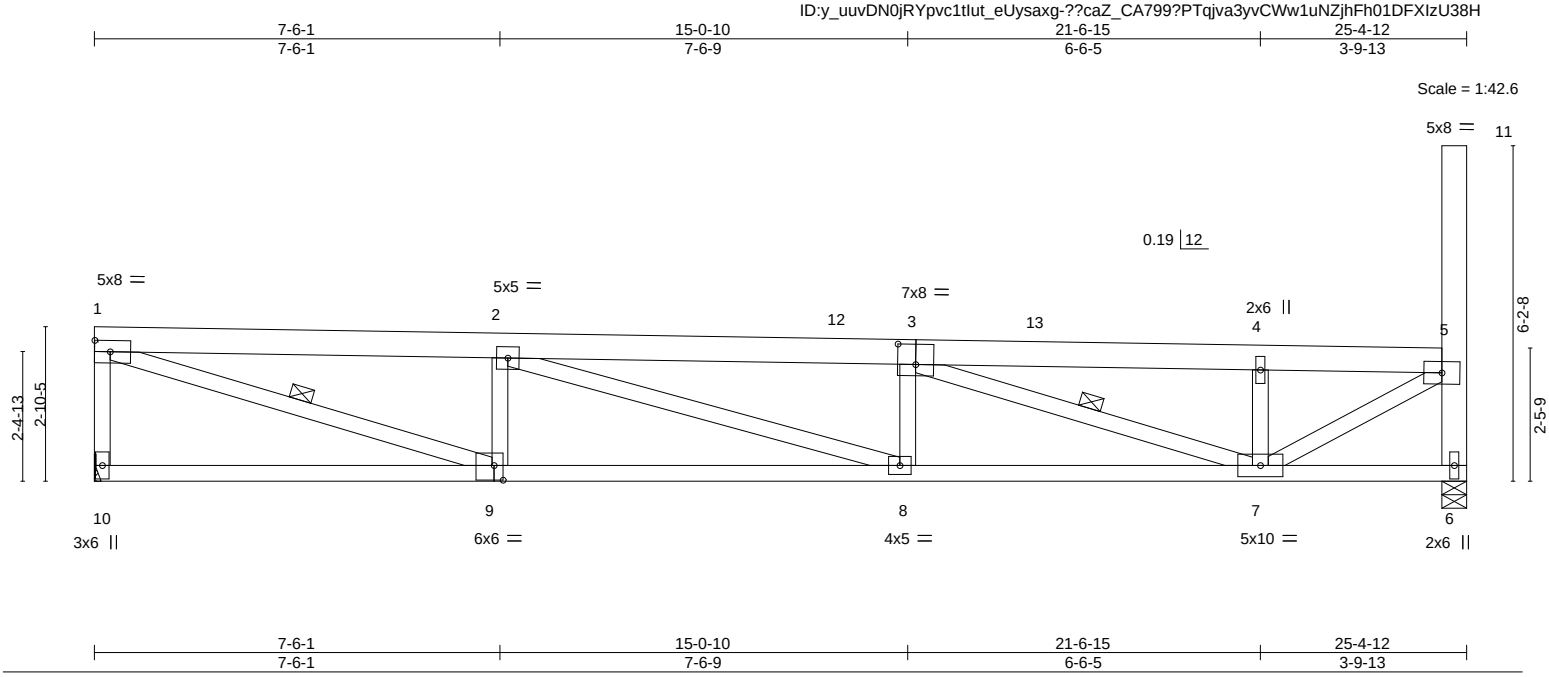

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [9:0-2-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.24	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.45	8-9	>662	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
6-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-4 oc bracing.
WEBS 1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=Mechanical, 6=0-5-8
Max Horz 10=-275(LC 13)
Max Uplift 10=-75(LC 16), 6=-90(LC 12)
Max Grav 10=1320(LC 22), 6=1715(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1250/579, 1-2=-3121/1266, 2-3=-4099/1633, 3-4=-2570/1146, 4-5=-2565/1140, 5-6=-1680/580
BOT CHORD 9-10=-417/313, 8-9=-1396/3157, 7-8=-1407/4104
WEBS 1-9=-1340/3213, 2-9=-888/537, 2-8=-368/982, 3-7=-1635/884, 4-7=-809/309, 5-7=-906/2886

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 12=-70-to-13=-107, 13=-107-to-4=-190, 4=-112-to-5=-148

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LOAD CASE(S) Standard Except:

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-60, 4-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-60-to-4=-119
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-39, 4-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-39-to-4=-98
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-65, 4-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-65-to-4=-124
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-42, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-42-to-13=-79, 13=-79-to-4=-162, 4=-84-to-5=-120
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-77, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-77-to-13=-114, 13=-114-to-4=-197, 4=-119-to-5=-155
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-12=-55, 4-5=-55, 6-10=-20
   Horz: 1-10=18, 5-6=5, 5-11=38
   Drag: 1-5=0
   Trapezoidal Loads (plf)
   Vert: 12=-55-to-4=-114
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-12=-48, 4-5=-48, 6-10=-20
   Horz: 1-10=-5, 5-6=-18, 5-11=-38
   Drag: 1-5=0
   Trapezoidal Loads (plf)
   Vert: 12=-48-to-4=-106
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-12=-55, 4-5=-55, 6-10=-20
   Horz: 1-10=14, 5-6=3, 5-11=25
   Drag: 1-5=0
   Trapezoidal Loads (plf)
   Vert: 12=-55-to-4=-114
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-12=-48, 4-5=-48, 6-10=-20
   Horz: 1-10=-3, 5-6=-14, 5-11=25
   Drag: 1-5=0
   Trapezoidal Loads (plf)
   Vert: 12=-48-to-4=-106
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-12=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 12=-70-to-13=-107, 13=-107-to-4=-190, 4=-112-to-5=-148

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T20G	Roof Special Girder	1	1	I51164980
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:55 2022 Page 1
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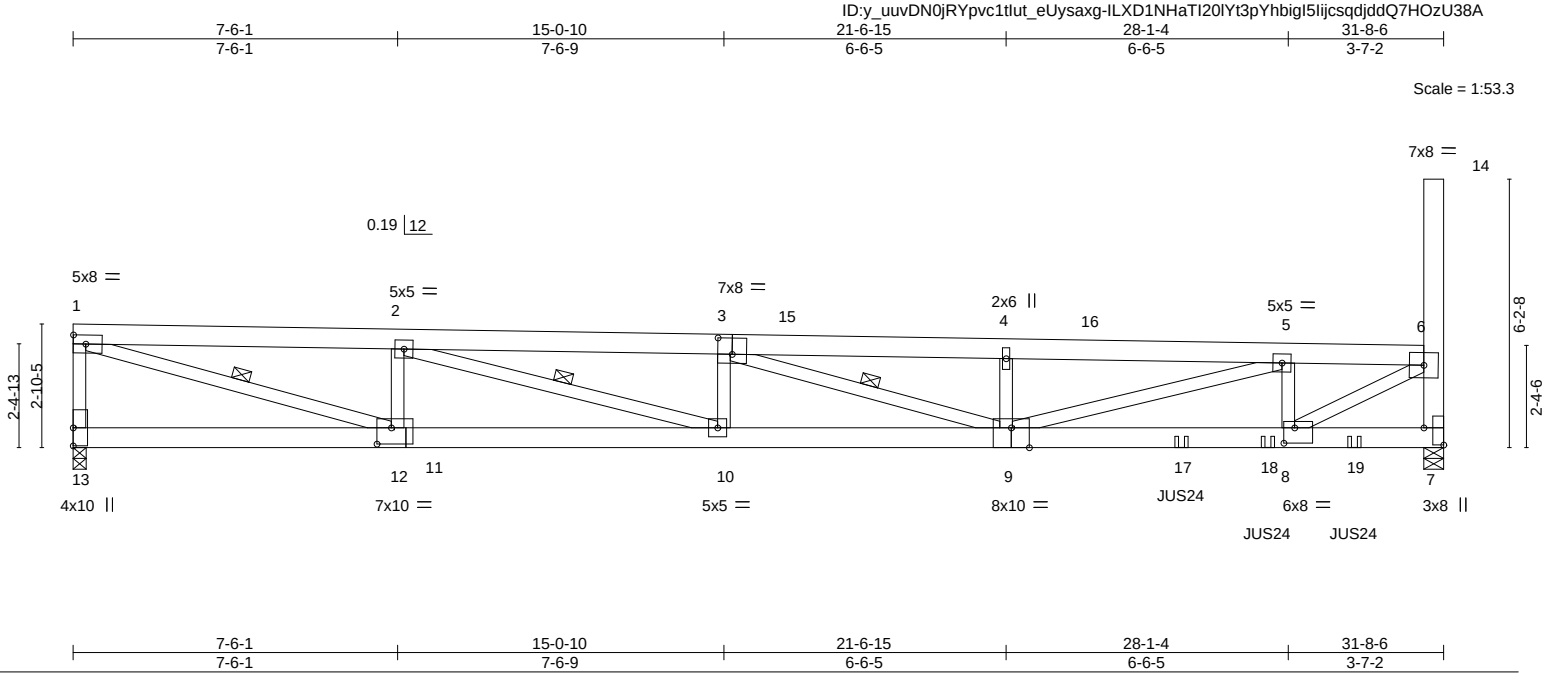

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [7:Edge,0-5-8], [8:0-3-0,0-4-4], [9:0-5-0,Edge], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.49	9-10	>766	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.76	9-10	>493	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 219 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 7-14: 2x6 SP No.1, 1-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-6-3 oc bracing.
WEBS	1 Row at midpt 1-12, 2-10, 3-9

REACTIONS. (size) 13=0-3-10, 7=0-5-8
Max Horz 13=-277(LC 11)
Max Uplift 13=-290(LC 16), 7=-1563(LC 12)
Max Grav 13=1590(LC 22), 7=2609(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1503/787, 1-2=-4115/2080, 2-3=-5981/3462, 3-4=-5768/4220, 4-5=-5748/4196, 5-6=-4111/3551, 6-7=-2473/1930
BOT CHORD	12-13=-397/297, 10-12=-2225/4109, 9-10=-3351/5976, 8-9=-3273/4002, 7-8=-301/342
WEBS	1-12=-2168/4220, 2-12=-1164/772, 2-10=-1451/1966, 3-10=-466/547, 3-9=-1336/1217, 4-9=-517/311, 5-9=-1170/2607, 5-8=-1409/638, 6-8=-3491/4426

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-10, Corner(3) 16-5-10 to 31-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=290, 7=1563.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 25-7-10 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 27-7-10 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 29-7-10 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-70, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-77(B) 18=-77(B) 19=-77(B)
   Trapezoidal Loads (plf)
   Vert: 16=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-60, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-64(B) 18=-64(B) 19=-64(B)
   Trapezoidal Loads (plf)
   Vert: 16=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-39, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-64(B) 18=-64(B) 19=-64(B)
   Trapezoidal Loads (plf)
   Vert: 16=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-66, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-64(B) 18=-64(B) 19=-64(B)
   Trapezoidal Loads (plf)
   Vert: 16=-66-to-6=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-42, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-77(B) 18=-77(B) 19=-77(B)
   Trapezoidal Loads (plf)
   Vert: 16=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-78, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-77(B) 18=-77(B) 19=-77(B)
   Trapezoidal Loads (plf)
   Vert: 16=-78-to-6=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=18, 6-7=5, 6-14=38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=392(B) 18=392(B) 19=393(B)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-48, 7-13=-20
   Horz: 1-13=-5, 6-7=-18, 6-14=-38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=392(B) 18=392(B) 19=393(B)
   Trapezoidal Loads (plf)
   Vert: 16=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=14, 6-7=3, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=392(B) 18=392(B) 19=393(B)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-48, 7-13=-20
   Horz: 1-13=-3, 6-7=-14, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=392(B) 18=392(B) 19=393(B)

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20
Concentrated Loads (lb)
Vert: 17=-77(B) 18=-77(B) 19=-77(B)
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-451(B) 18=-451(B) 19=-452(B)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-451(B) 18=-451(B) 19=-452(B)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-451(B) 18=-451(B) 19=-452(B)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-451(B) 18=-451(B) 19=-452(B)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T20GE	Roof Special Supported Gable	1	1	I51164981
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:57 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-Ekf_S3Jq?wlk_r0Sxzj3n5NQVWWEKw804xvELHzU388

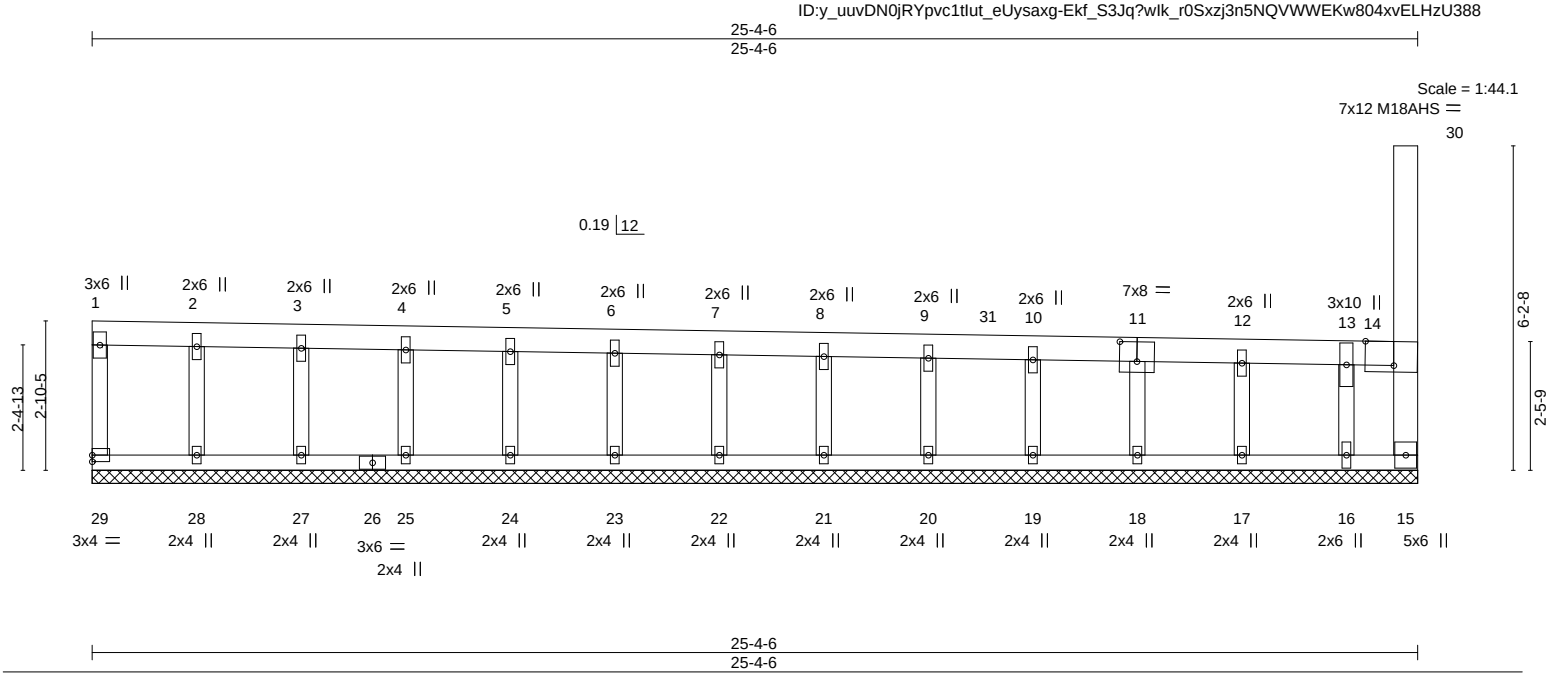

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [14:0-6-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	n/a	-	n/a	999	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.01	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 15-30: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-0-4 oc bracing.

REACTIONS. All bearings 25-4-6.
(lb) - Max Horz 29=-275(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 29, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17 except 15=-720(LC 12), 28=-116(LC 12), 16=-771(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18 except 15=761(LC 13), 17=307(LC 22), 16=811(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	14-15=-672/971
BOT CHORD	28-29=-306/275, 27-28=-306/275, 25-27=-306/275, 24-25=-306/275, 23-24=-306/275, 22-23=-306/275, 21-22=-306/275, 20-21=-306/275, 19-20=-306/275, 18-19=-306/275, 17-18=-305/275, 16-17=-305/275, 15-16=-305/275
WEBS	12-17=-266/126, 13-16=-890/799

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17 except (jt=lb) 15=720, 28=116, 16=771.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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April 5,2022

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-70, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-70-to-14=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-60, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-60-to-14=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-39, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-39-to-14=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-65, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-65-to-14=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-42, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-42-to-14=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-77, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-77-to-14=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-31=-55, 15-29=-20
   Horz: 1-29=18, 14-15=5, 14-30=38
   Drag: 1-14=0
   Trapezoidal Loads (plf)
   Vert: 31=-55-to-14=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-31=-48, 15-29=-20
   Horz: 1-29=-5, 14-15=-18, 14-30=-38
   Drag: 1-14=0
   Trapezoidal Loads (plf)
   Vert: 31=-48-to-14=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-31=-55, 15-29=-20
   Horz: 1-29=14, 14-15=3, 14-30=25
   Drag: 1-14=0
   Trapezoidal Loads (plf)
   Vert: 31=-55-to-14=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-31=-48, 15-29=-20
   Horz: 1-29=-3, 14-15=-14, 14-30=25
   Drag: 1-14=0
   Trapezoidal Loads (plf)
   Vert: 31=-48-to-14=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-31=-70, 15-29=-20
   Trapezoidal Loads (plf)
   Vert: 31=-70-to-14=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T21	Roof Special	3	1	I51164982
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-iwCMgPKSmDQbc?beUhEIJJwabwnJ3A09JbentjzU387

7-6-1	15-0-10	21-6-15	28-1-4	33-8-6
7-6-1	7-6-9	6-6-5	6-6-5	5-7-2

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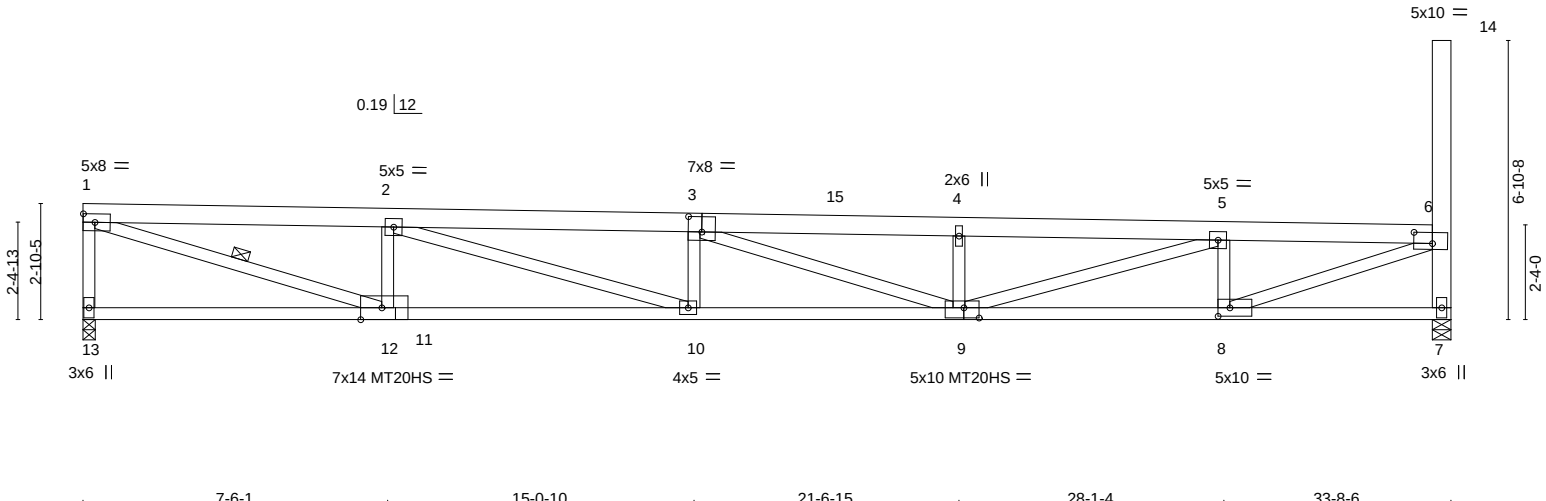

7-6-1	15-0-10	21-6-15	28-1-4	33-8-6
7-6-1	7-6-9	6-6-5	6-6-5	5-7-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [6:0-5-8,0-3-4], [8:0-3-8,0-2-8], [9:0-4-8,0-3-0], [11:0-6-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.46	9-10	>870	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.93	9-10	>429	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
9-11: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
7-14: 2x6 SP No.1, 1-12: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-12 oc bracing.
WEBS 1 Row at midpt 1-12

REACTIONS. (size) 13=0-3-10, 7=0-5-8
Max Horz 13=-315(LC 11)
Max Uplift 13=-93(LC 16), 7=-106(LC 12)
Max Grav 13=1649(LC 22), 7=1840(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1575/597, 1-2=-4180/1422, 2-3=-6171/2158, 3-4=-6041/2228, 4-5=-6013/2207, 5-6=-3863/1648, 6-7=-1778/601
BOT CHORD 12-13=-424/342, 10-12=-1582/4175, 9-10=-2027/6166, 8-9=-1335/3857, 7-8=-263/306
WEBS 1-12=-1504/4320, 2-12=-1225/582, 2-10=-779/2087, 3-10=-488/318, 4-9=-508/293, 5-9=-936/2258, 5-8=-1233/519, 6-8=-1299/3917

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-10, Corner(3) 18-5-10 to 33-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=106.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-13=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-66, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-66-to-6=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-78, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-13=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-13=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-13=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-13=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

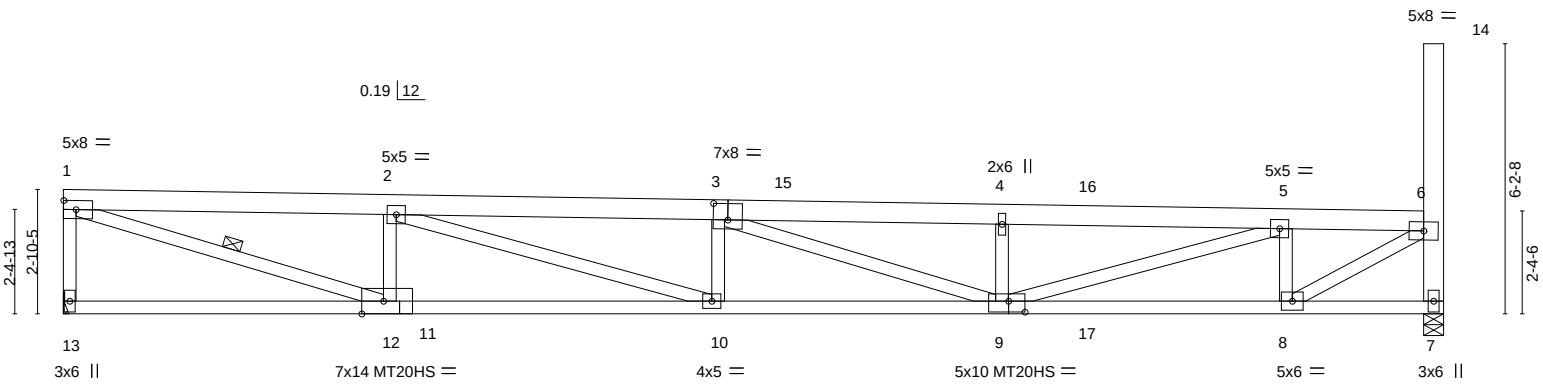
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T22	Roof Special	2	1	I51164983
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:17:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-A7mktIK4XXYRE9Ar2OlXsWTo0J7yoeoIYFOLQAzU386

7-6-1	15-0-10	21-6-15	28-1-4	31-8-12
7-6-1	7-6-9	6-6-5	6-6-5	3-7-8

Scale = 1:53.0



7-6-1	15-0-10	21-6-15	28-1-4	31-8-12
7-6-1	7-6-9	6-6-5	6-6-5	3-7-8

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [9:0-4-8,0-3-0], [11:0-6-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.40	10	>936	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.77	9-10	>490	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	7-14: 2x6 SP No.1, 1-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-11 oc bracing.
WEBS	1 Row at midpt 1-12

REACTIONS. (size) 13=Mechanical, 7=0-5-8
Max Horz 13=-280(LC 11)
Max Uplift 13=-86(LC 16), 7=-97(LC 12)
Max Grav 13=1590(LC 22), 7=2121(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1517/591, 1-2=-4002/1385, 2-3=-5798/2034, 3-4=-5510/1969, 4-5=-5512/1963, 5-6=-3038/1218, 6-7=-1986/581
BOT CHORD 12-13=-383/308, 10-12=-1537/3996, 9-10=-1932/5793, 8-9=-939/3034
WEBS 1-12=-1466/4133, 2-12=-1165/570, 2-10=-687/1882, 3-10=-432/288, 3-9=-478/319, 4-9=-525/302, 5-9=-1084/2590, 5-8=-1408/533, 6-8=-935/3389

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 13-17=-20

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Continued on page 2

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LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150, 17=-20-to-7=-100

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 13-17=-20
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 13-17=-20
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-66, 13-17=-20
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-6=-122, 17=-20-to-7=-100

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-78, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-78-to-6=-158, 17=-20-to-7=-100

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 13-17=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 13-17=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 13-17=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 13-17=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 17=-20-to-7=-80

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 13-17=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150, 17=-20-to-7=-100

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Chesterfield, MO 63017

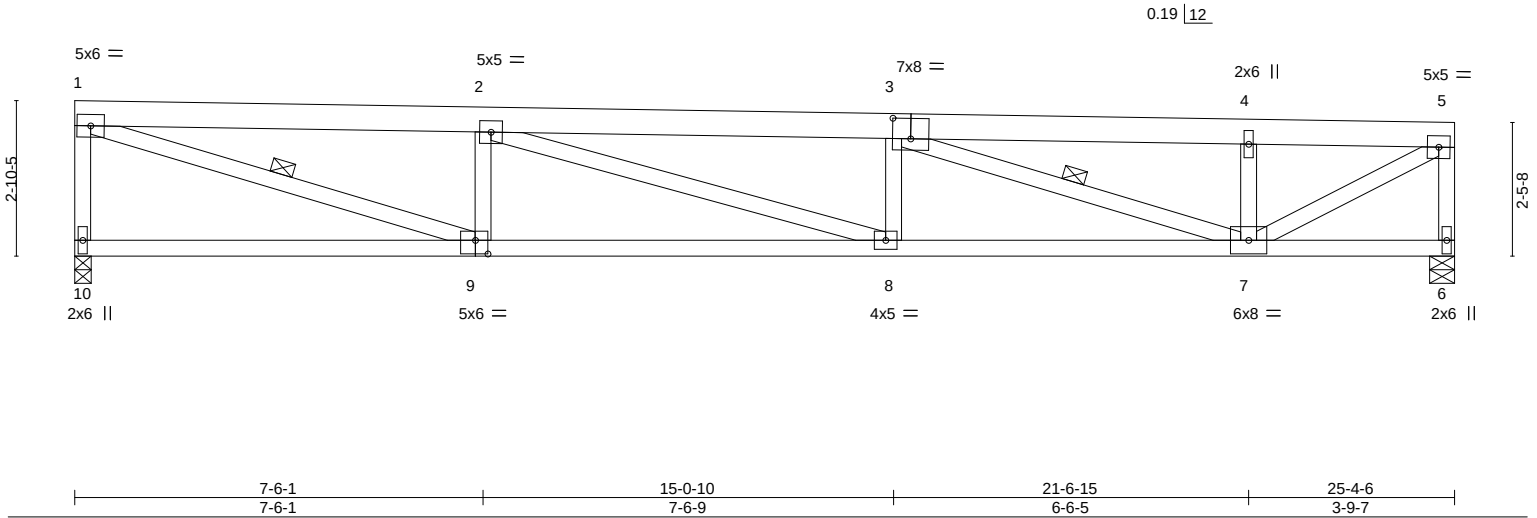
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T23	Roof Special	4	1	I51164984
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-fJK655LiIrgIrJl1c6GmPk?0FjS2X7XSmv7uyczU385

7-6-1	15-0-10	21-6-15	25-4-6
7-6-1	7-6-9	6-6-5	3-9-7

Scale = 1:42.4



7-6-1	15-0-10	21-6-15	25-4-6
7-6-1	7-6-9	6-6-5	3-9-7

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.19	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.42	8-9	>709	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 148 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing.
WEBS 1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=0-3-10, 6=0-5-8
Max Horz 10=-75(LC 13)
Max Uplift 10=-54(LC 16), 6=-57(LC 12)
Max Grav 10=1215(LC 22), 6=1215(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1145/546, 1-2=-2793/1185, 2-3=-3390/1419, 3-4=-1883/809, 4-5=-1880/803, 5-6=-1186/519
BOT CHORD 8-9=-1231/2834, 7-8=-1442/3386
WEBS 1-9=-1223/2871, 2-9=-781/500, 2-8=-257/578, 3-7=-1594/671, 4-7=-436/296, 5-7=-899/2137

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

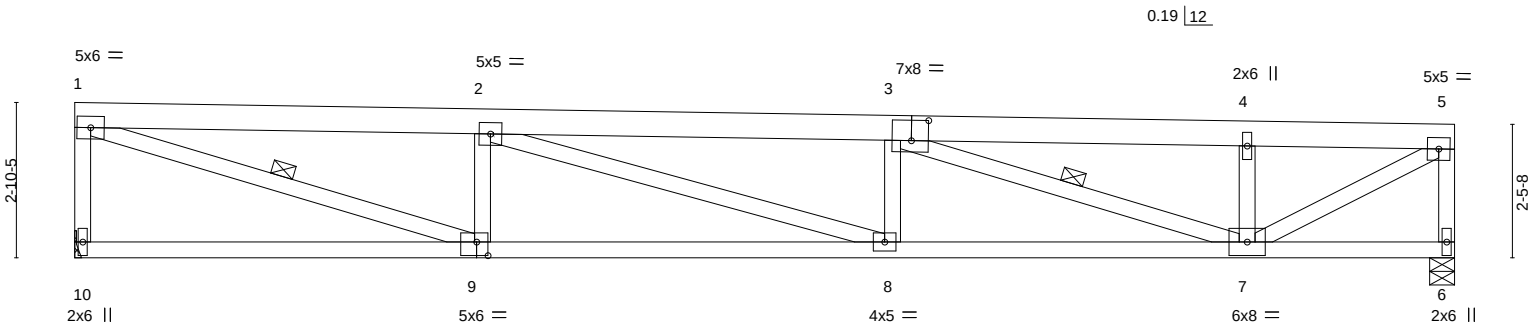
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T23A	Roof Special	1	1	I51164985
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:01 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7VuUIQMK38o9TTKDApn?xxYBy7nFGajb?YtRU2zU384

7-6-1	15-0-10	21-6-15	25-4-12
7-6-1	7-6-9	6-6-5	3-9-13

Scale = 1:42.4



7-6-1	15-0-10	21-6-15	25-4-12
7-6-1	7-6-9	6-6-5	3-9-13

Plate Offsets (X,Y)-- [3:0-3-12,0-4-8], [9:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.19	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.43	8-9	>708	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing.
WEBS 1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=Mechanical, 6=0-5-8
Max Horz 10=-75(LC 13)
Max Uplift 10=-54(LC 16), 6=-57(LC 12)
Max Grav 10=1217(LC 22), 6=1217(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1147/546, 1-2=-2808/1192, 2-3=-3400/1422, 3-4=-1897/814, 4-5=-1895/808, 5-6=-1187/520
BOT CHORD 8-9=-1231/2839, 7-8=-1445/3395
WEBS 1-9=-1229/2885, 2-9=-782/500, 2-8=-260/583, 3-7=-1588/668, 4-7=-437/296, 5-7=-903/2149

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T23GE	GABLE	1	1	I51164986
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-biStWmNzqSw05dvQjWJEU95Q2XKl?CalECc?0UzU383

25-4-6
25-4-6

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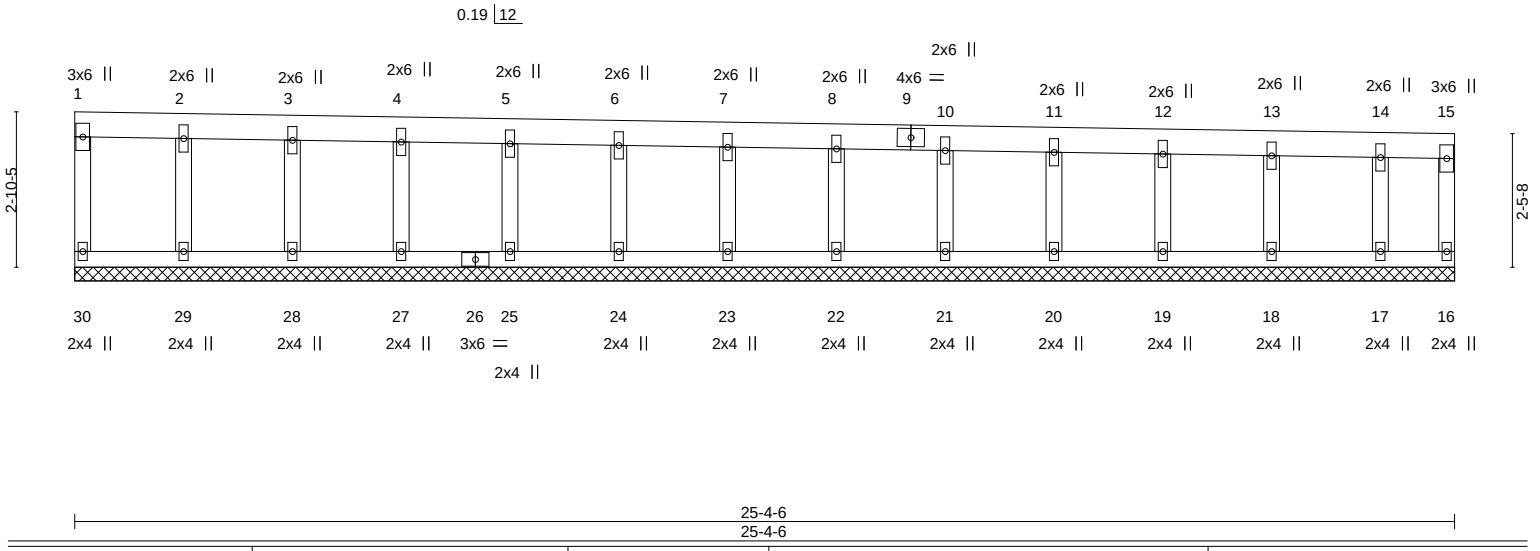

25-4-6
25-4-6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 137 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-6.
(lb) - Max Horz 30=-75(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

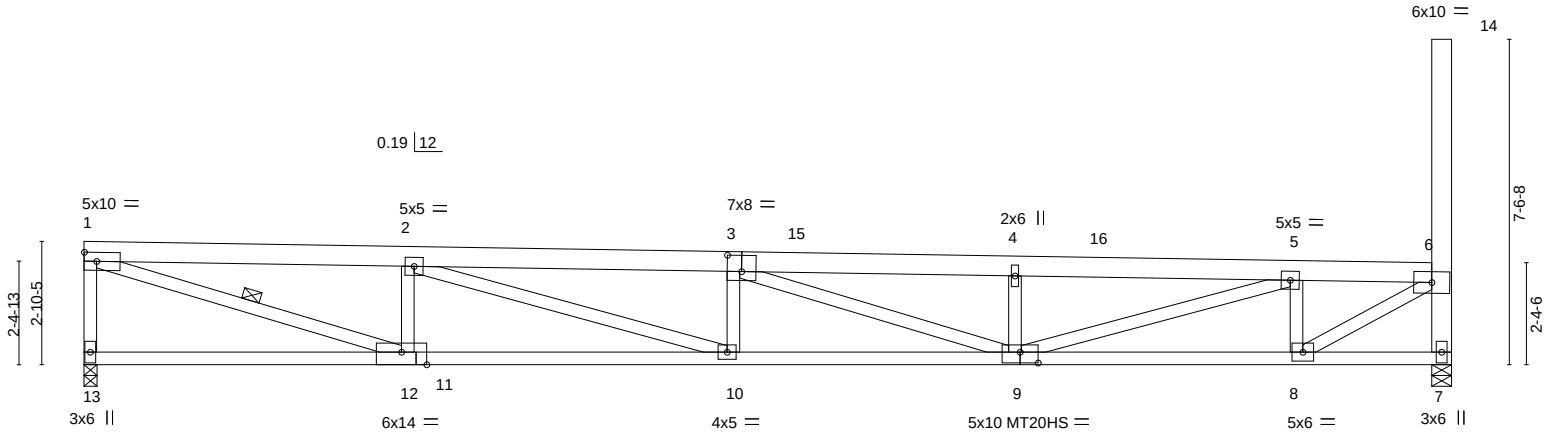
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T24	Roof Special	4	1	I51164987
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:03 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-3u0Fj6Nbbm2timUcHEqT0MdUrxUXkQruSsMYZxzU382

7-6-1	15-0-10	21-6-15	28-1-4	31-8-6
7-6-1	7-6-9	6-6-5	6-6-5	3-7-2

Scale = 1:53.4



7-6-1	15-0-10	21-6-15	28-1-4	31-8-6
7-6-1	7-6-9	6-6-5	6-6-5	3-7-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [9:0-5-0,0-3-0], [11:0-7-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.38	10	>985	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.75	9-10	>499	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-14: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-0 oc bracing.
WEBS	1 Row at midpt 1-12

REACTIONS. (size) 13=0-3-10, 7=0-5-8
Max Horz 13=-348(LC 11)
Max Uplift 13=-95(LC 16), 7=-111(LC 12)
Max Grav 13=1561(LC 22), 7=1827(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1487/606, 1-2=-3906/1430, 2-3=-5613/2133, 3-4=-5211/2119, 4-5=-5183/2097, 5-6=-2688/1419, 6-7=-1796/607
BOT CHORD	12-13=-488/377, 10-12=-1570/3901, 9-10=-1887/5608, 8-9=-1069/2684, 7-8=-299/419
WEBS	1-12=-1510/4028, 2-12=-1134/585, 2-10=-744/1789, 3-10=-398/306, 3-9=-525/401, 4-9=-528/307, 5-9=-1162/2616, 5-8=-1433/530, 6-8=-932/3018

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-10, Corner(3) 16-5-10 to 31-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=111.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-66, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-66-to-6=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-78, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T24G	Roof Special Girder	1	1	I51164988
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:05 2022 Page 1
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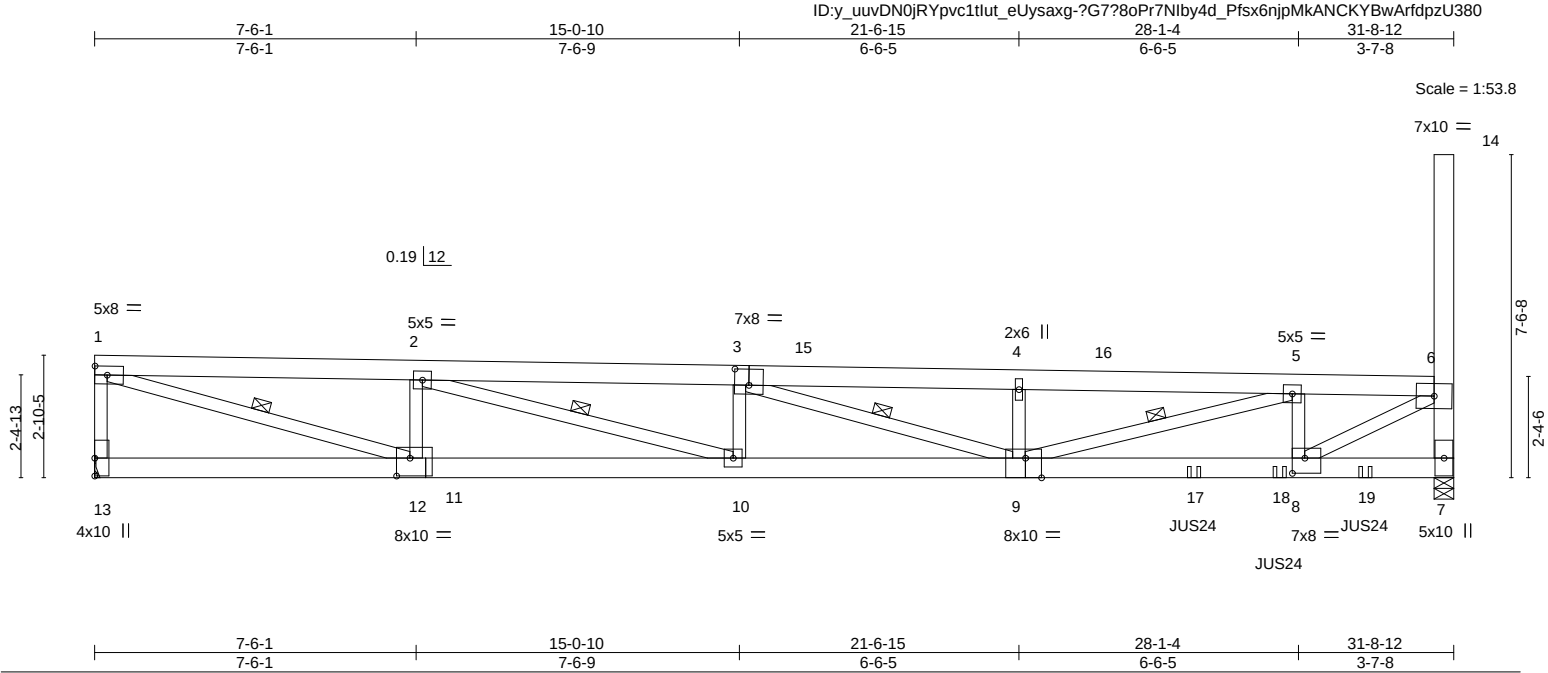

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [8:0-3-8,0-4-4], [9:0-4-8,Edge], [11:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.51	9-10	>741	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.77	9-10	>489	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 223 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 7-9: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-14: 2x6 SP 2400F 2.0E, 1-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-2-12 oc bracing.
WEBS	1 Row at midpt 1-12, 2-10, 3-9, 5-9

REACTIONS. (size) 13=Mechanical, 7=0-5-8
Max Horz 13=-345(LC 13)
Max Uplift 13=-311(LC 16), 7=-1664(LC 12)
Max Grav 13=1597(LC 22), 7=2703(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1510/813, 1-2=-4135/2165, 2-3=-6027/3647, 3-4=-5911/4469, 4-5=-5914/4463, 5-6=-4420/3914, 6-7=-2553/2032
BOT CHORD	12-13=-501/368, 10-12=-2296/4130, 9-10=-3389/6022, 8-9=-3565/4258, 7-8=-486/600
WEBS	1-12=-2257/4241, 2-12=-1171/800, 2-10=-1555/2044, 3-10=-485/572, 3-9=-1408/1320, 4-9=-511/312, 5-9=-1315/2602, 5-8=-1399/655, 6-8=-3675/4591

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=311, 7=1664.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 25-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 27-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 29-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-70, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-60, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-39, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-66, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-76(F) 18=-76(F) 19=-76(F)
   Trapezoidal Loads (plf)
   Vert: 16=-66-to-6=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-42, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-78, 7-13=-20
   Concentrated Loads (lb)
   Vert: 17=-92(F) 18=-92(F) 19=-92(F)
   Trapezoidal Loads (plf)
   Vert: 16=-78-to-6=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=18, 6-7=5, 6-14=38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=411(F) 18=412(F) 19=412(F)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-48, 7-13=-20
   Horz: 1-13=-5, 6-7=-18, 6-14=-38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=411(F) 18=412(F) 19=412(F)
   Trapezoidal Loads (plf)
   Vert: 16=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-55, 7-13=-20
   Horz: 1-13=14, 6-7=3, 6-14=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 17=411(F) 18=412(F) 19=412(F)
   Trapezoidal Loads (plf)
   Vert: 16=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=411(F) 18=412(F) 19=412(F)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 7-13=-20
Concentrated Loads (lb)
Vert: 17=-92(F) 18=-92(F) 19=-92(F)
Trapezoidal Loads (plf)
Vert: 16=-70-to-6=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=18, 6-7=5, 6-14=38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-482(F) 18=-482(F) 19=-483(F)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-5, 6-7=-18, 6-14=-38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-482(F) 18=-482(F) 19=-483(F)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-55, 7-13=-20
Horz: 1-13=14, 6-7=3, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-482(F) 18=-482(F) 19=-483(F)
Trapezoidal Loads (plf)
Vert: 16=-55-to-6=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-48, 7-13=-20
Horz: 1-13=-3, 6-7=-14, 6-14=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 17=-482(F) 18=-482(F) 19=-483(F)
Trapezoidal Loads (plf)
Vert: 16=-48-to-6=-108

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T25	Roof Special	4	1	I51164989
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:05 2022 Page 1
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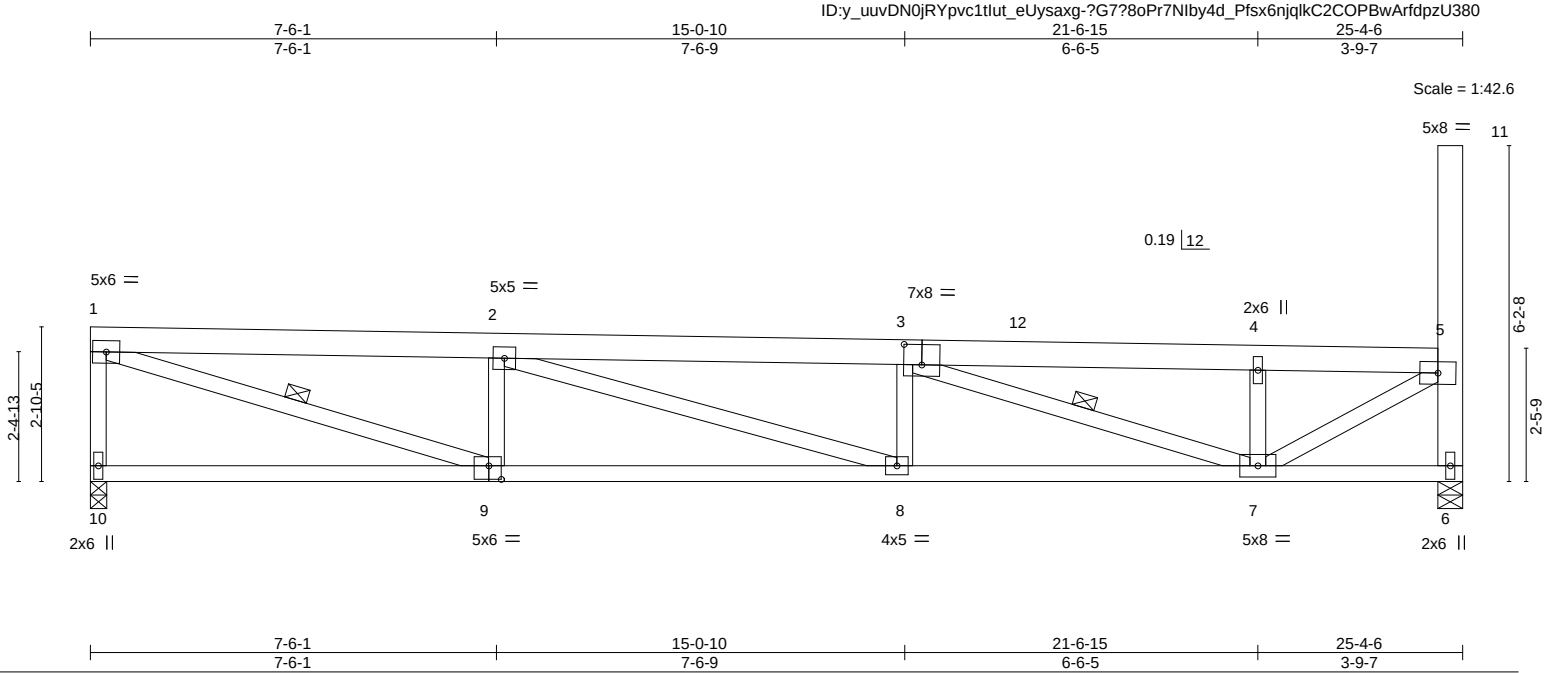

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.19	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.41	8-9	>727	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 158 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
6-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-5 oc bracing.
WEBS 1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=0-3-10, 6=0-5-8
Max Horz 10=-275(LC 11)
Max Uplift 10=-75(LC 16), 6=-90(LC 12)
Max Grav 10=1245(LC 22), 6=1497(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1175/579, 1-2=-2884/1256, 2-3=-3596/1641, 3-4=-2138/1146, 4-5=-2136/1140, 5-6=-1464/580
BOT CHORD 9-10=-418/313, 8-9=-1393/2927, 7-8=-1408/3591
WEBS 1-9=-1331/2967, 2-9=-812/536, 2-8=-378/696, 3-7=-1543/884, 4-7=-608/319, 5-7=-908/2394

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 12=-70-to-5=-150

April 5,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-65-to-5=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-77-to-5=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-70-to-5=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T25A	Roof Special	2	1	I51164990
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:06 2022 Page 1
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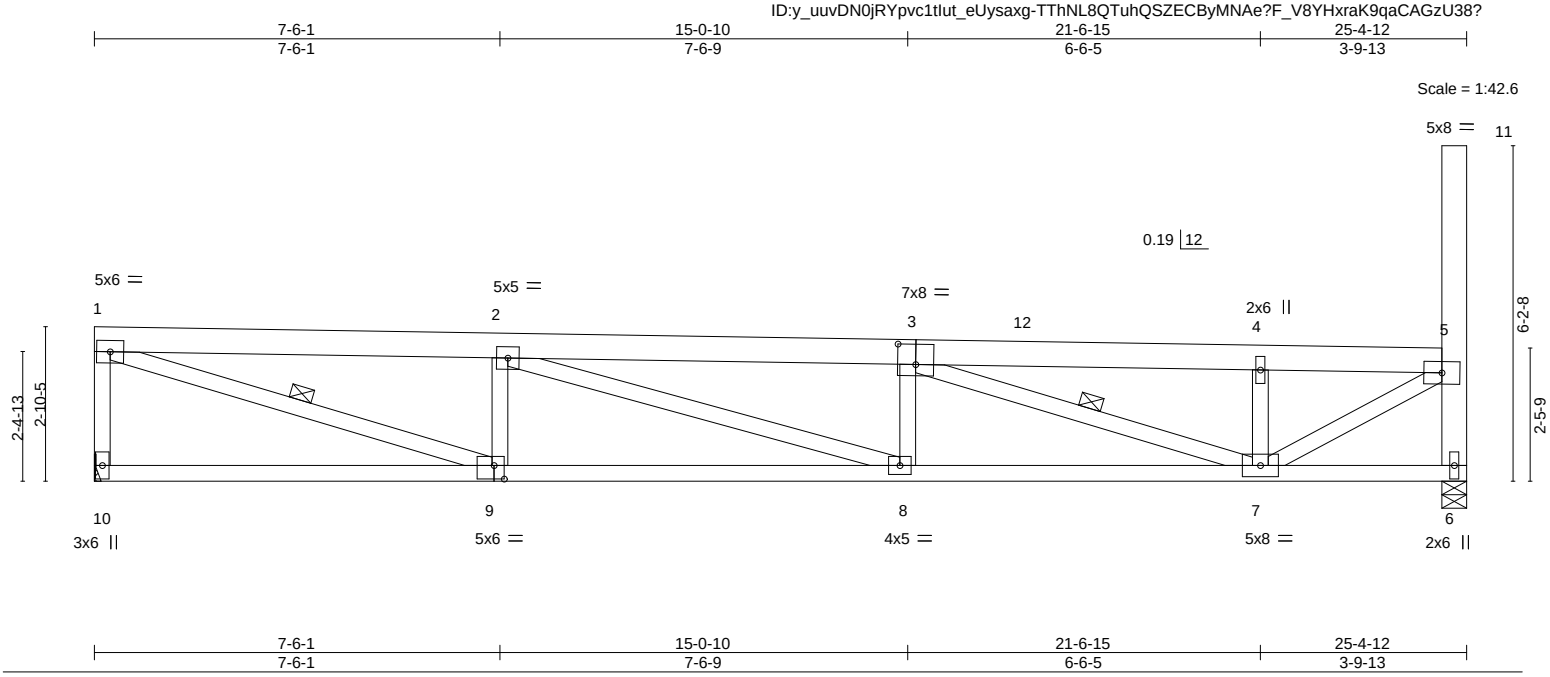

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-2-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.19	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.41	8-9	>730	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 6-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-4 oc bracing.
WEBS	1 Row at midpt 1-9, 3-7

REACTIONS. (size) 10=Mechanical, 6=0-5-8
Max Horz 10=-275(LC 11)
Max Uplift 10=-75(LC 16), 6=-90(LC 12)
Max Grav 10=1246(LC 22), 6=1498(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1176/579, 1-2=-2903/1266, 2-3=-3590/1633, 3-4=-2145/1146, 4-5=-2144/1140, 5-6=-1465/580
BOT CHORD 9-10=-417/313, 8-9=-1396/2936, 7-8=-1407/3589
WEBS 1-9=-1340/2986, 2-9=-814/537, 2-8=-368/681, 3-7=-1537/884, 4-7=-592/309, 5-7=-906/2394

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 12=-70-to-5=-150

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-65-to-5=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-77-to-5=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-12=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 12=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-12=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 12=-70-to-5=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T25GE	Roof Special Supported Gable	1	1	I51164991
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:08 2022 Page 1
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25-4-10
25-4-10

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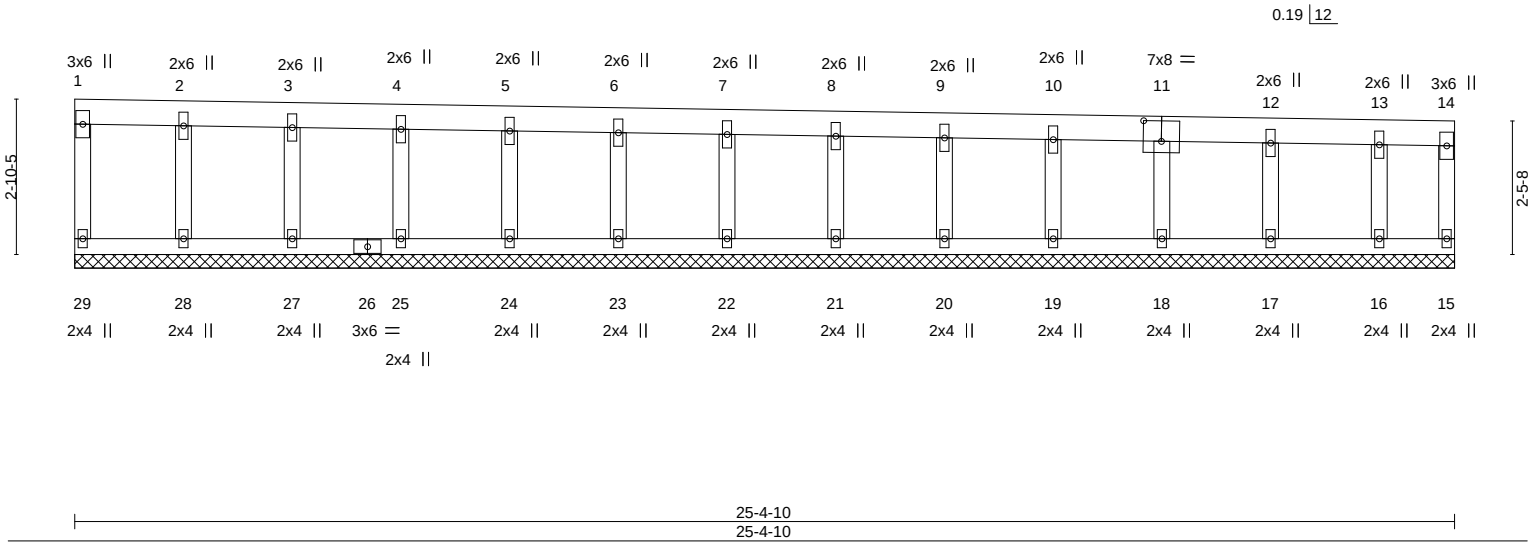

25-4-10
25-4-10

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 137 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-10.
(lb) - Max Horz 29=-75(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 29, 15, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 29, 15, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 15, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

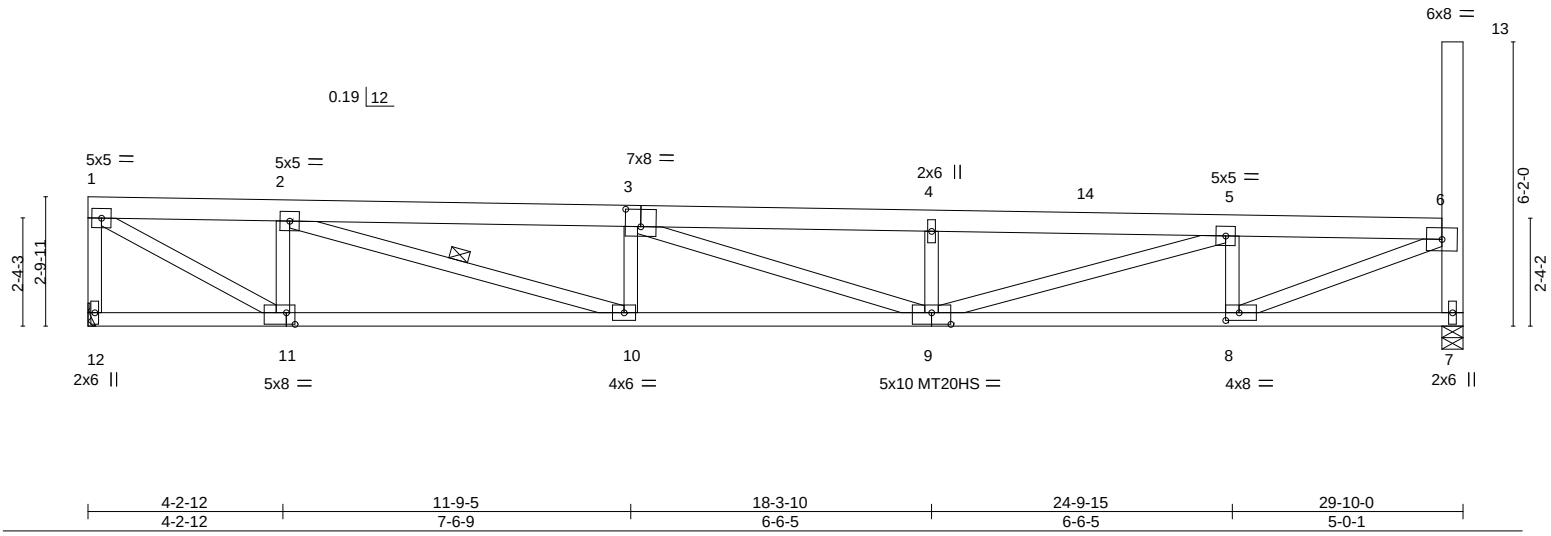
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T26	Roof Special	4	1	I51164992
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-u2NW_ASMAcp1QhxmeUxtGdtVxLWk8BunroptlazU37y

4-2-12	11-9-5	18-3-10	24-9-15	29-10-0
4-2-12	7-6-9	6-6-5	6-6-5	5-0-1

Scale = 1:50.0



4-2-12	11-9-5	18-3-10	24-9-15	29-10-0
4-2-12	7-6-9	6-6-5	6-6-5	5-0-1

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [8:0-3-8,0-2-0], [9:0-5-0,0-3-0], [11:0-2-4,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.32	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.64	9-10	>549	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.10	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 184 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	11-12: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	7-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-6-10 oc bracing.
WEBS	1 Row at midpt 2-10

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 7=-277(LC 11)
Max Uplift 12=-82(LC 16), 7=-94(LC 12)
Max Grav 12=1467(LC 22), 7=1730(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1438/569, 1-2=-2390/888, 2-3=-4762/1820, 3-4=-5023/1986, 4-5=-5023/1980, 5-6=-3259/1425, 6-7=-1676/590
BOT CHORD	10-11=-915/2347, 9-10=-1871/4757, 8-9=-1495/3253, 7-8=-534/626
WEBS	1-11=-1049/2739, 2-11=-1250/609, 2-10=-1002/2525, 3-10=-619/390, 3-9=-183/276, 4-9=-508/311, 5-9=-887/1849, 5-8=-1173/519, 6-8=-1175/3361

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-66-to-6=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=18, 6-7=5, 6-13=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-5, 6-7=-18, 6-13=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=14, 6-7=3, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-3, 6-7=-14, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T26G	Roof Special Girder	1	1	I51164993
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:10 2022 Page 1
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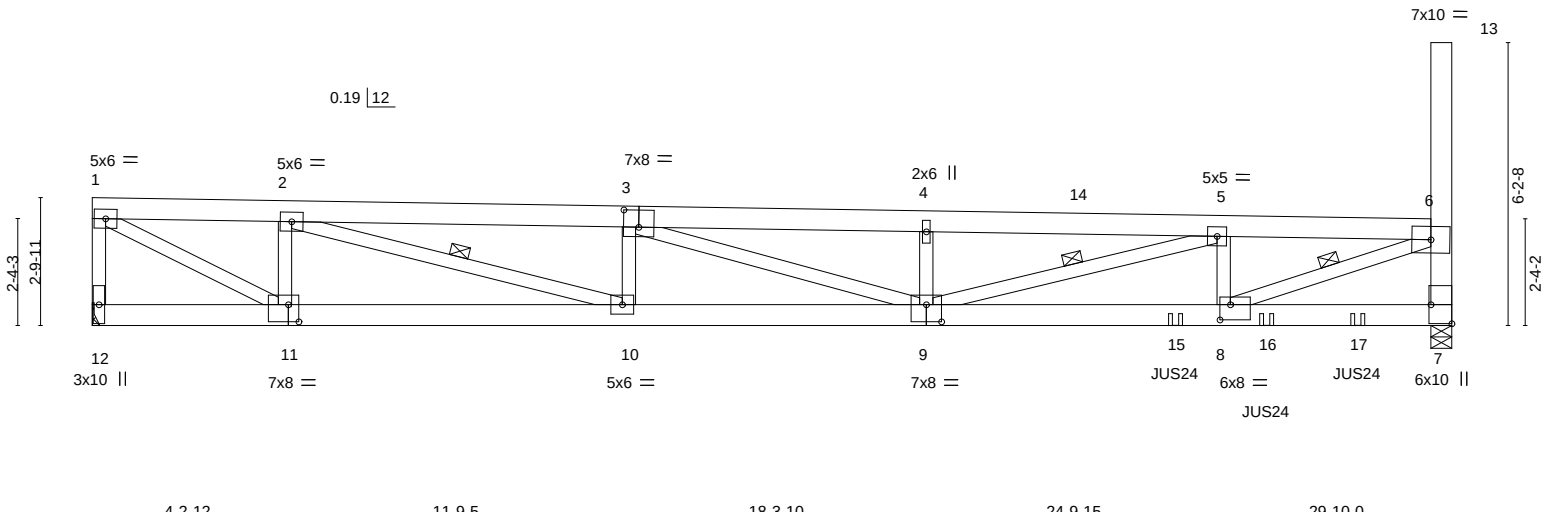
4-2-12	11-9-5	18-3-10	24-9-15	29-10-0
4-2-12	7-6-9	6-6-5	6-6-5	5-0-1

Scale = 1:50.6



4-2-12	11-9-5	18-3-10	24-9-15	29-10-0
4-2-12	7-6-9	6-6-5	6-6-5	5-0-1

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-5-8], [8:0-2-12,0-4-0], [9:0-4-0,0-4-8], [11:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.42	9-10	>838	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.64	9-10	>552	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	-0.07	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-0-2 oc bracing.
WEBS	1 Row at midpt 2-10, 5-9, 6-8

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 7=-277(LC 39)
Max Uplift 12=-261(LC 16), 7=-1289(LC 12)
Max Grav 12=1505(LC 22), 7=2360(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1475/747, 1-2=-2556/1259, 2-3=-5104/2810, 3-4=-5500/3616, 4-5=-5501/3610, 5-6=-4399/3573, 6-7=-1992/1426
BOT CHORD	10-11=-1278/2511, 9-10=-2859/5098, 8-9=-3640/4399, 7-8=-763/836
WEBS	1-11=-1455/2895, 2-11=-1275/784, 2-10=-1652/2703, 3-10=-665/584, 3-9=-856/844, 4-9=-500/333, 5-9=-1448/2000, 5-8=-1119/758, 6-8=-3273/4410

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=261, 7=1289.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 23-9-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 25-9-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 27-9-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-97(B) 16=-97(B) 17=-96(B)
   Trapezoidal Loads (plf)
   Vert: 14=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-80(B) 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 14=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-80(B) 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 14=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-66, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-80(B) 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 14=-66-to-6=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-97(B) 16=-97(B) 17=-96(B)
   Trapezoidal Loads (plf)
   Vert: 14=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-78, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-97(B) 16=-97(B) 17=-96(B)
   Trapezoidal Loads (plf)
   Vert: 14=-78-to-6=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-55, 7-12=-20
   Horz: 1-12=18, 6-7=5, 6-13=38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=310(B) 16=311(B) 17=312(B)
   Trapezoidal Loads (plf)
   Vert: 14=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-48, 7-12=-20
   Horz: 1-12=-5, 6-7=-18, 6-13=-38
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=310(B) 16=311(B) 17=312(B)
   Trapezoidal Loads (plf)
   Vert: 14=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-55, 7-12=-20
   Horz: 1-12=14, 6-7=3, 6-13=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=310(B) 16=311(B) 17=312(B)
   Trapezoidal Loads (plf)
   Vert: 14=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-48, 7-12=-20
   Horz: 1-12=-3, 6-7=-14, 6-13=25
   Drag: 1-6=0
   Concentrated Loads (lb)
   Vert: 15=310(B) 16=311(B) 17=312(B)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-97(B) 16=-97(B) 17=-96(B)
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=18, 6-7=5, 6-13=38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-386(B) 16=-387(B) 17=-387(B)
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-5, 6-7=-18, 6-13=-38
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-386(B) 16=-387(B) 17=-387(B)
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=14, 6-7=3, 6-13=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-386(B) 16=-387(B) 17=-387(B)
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-3, 6-7=-14, 6-13=25
Drag: 1-6=0
Concentrated Loads (lb)
Vert: 15=-386(B) 16=-387(B) 17=-387(B)
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T27	Roof Special	6	1	I51164994
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:11 2022 Page 1
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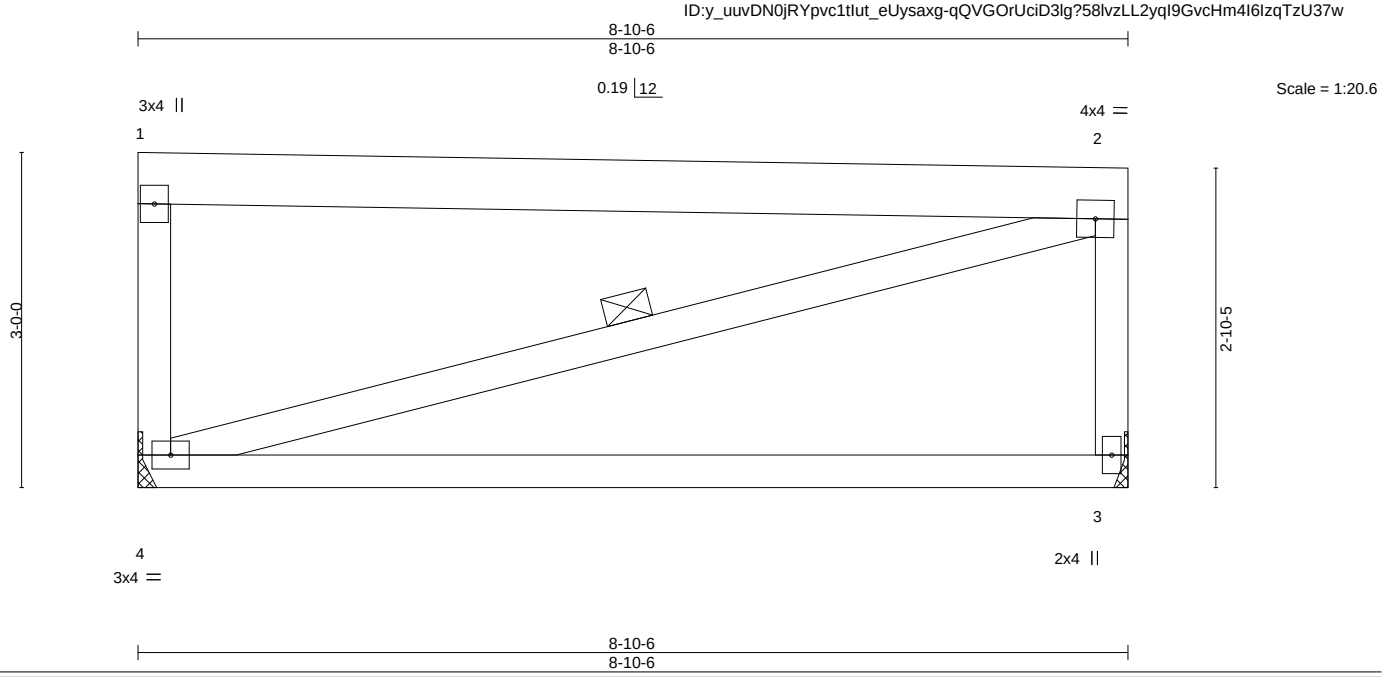

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.32	3-4	>318	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 53 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 8-10-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-4

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 3=-80(LC 11)
Max Uplift 4=-11(LC 16), 3=-29(LC 12)
Max Grav 4=411(LC 22), 3=411(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-326/360, 2-3=-326/380

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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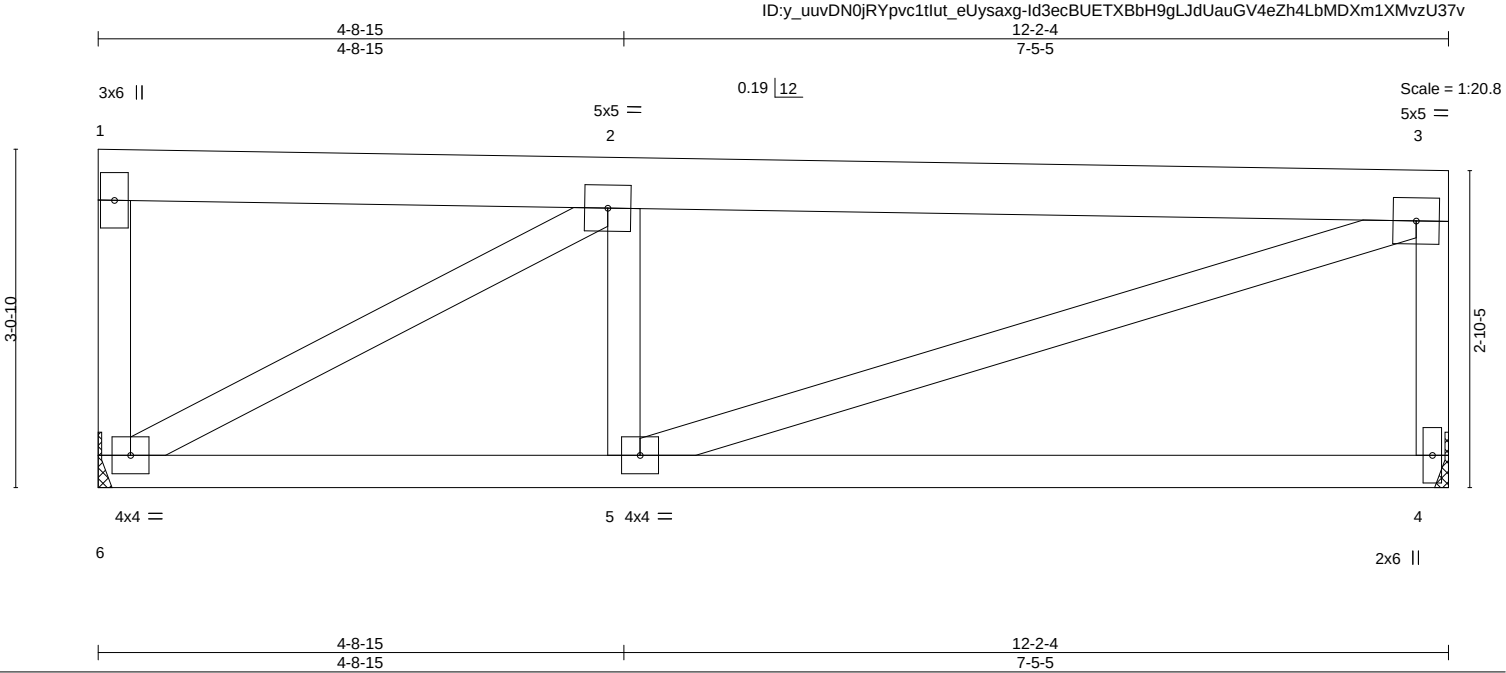
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T28	Roof Special	23	1	I51164995
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:12 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Id3ecBUETXBbH9gLJdUauGV4eZh4LbMDXm1XMvzU37v



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.02	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.12	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 75 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-7-9 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-81(LC 11)
Max Uplift 6=-21(LC 16), 4=-34(LC 12)
Max Grav 6=571(LC 22), 4=571(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-782/522, 3-4=-510/419
BOT CHORD	5-6=-573/779
WEBS	2-6=-896/623, 2-5=-115/282, 3-5=-576/823

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T29	Roof Special	13	1	I51164996
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:12 2022 Page 1
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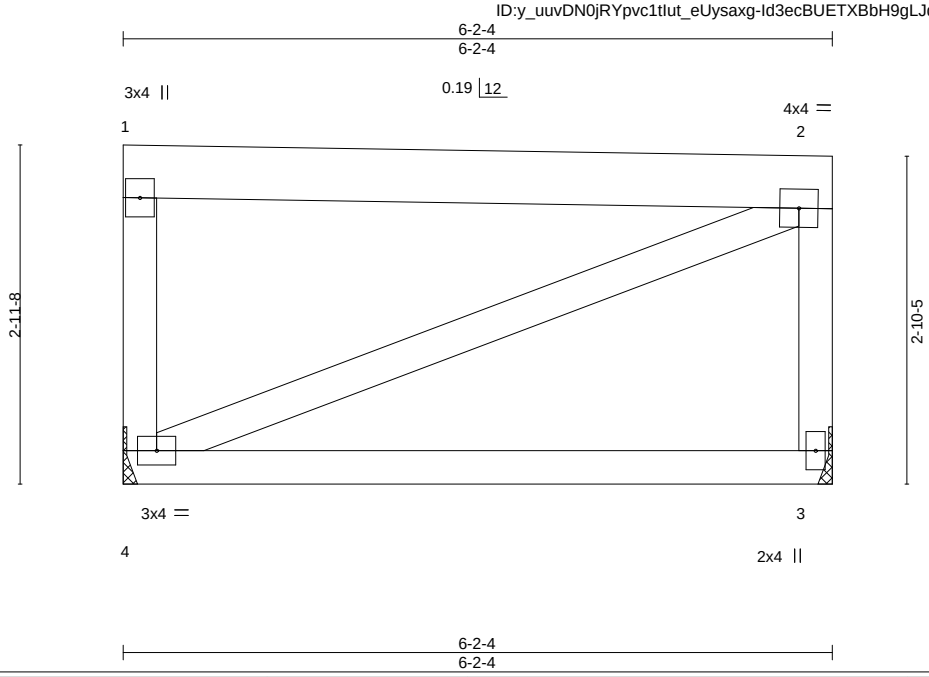

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	3-4	>976	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-78(LC 11)
Max Uplift 4=-2(LC 16), 3=-28(LC 12)
Max Grav 4=283(LC 22), 3=283(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-224/280, 2-3=-224/312

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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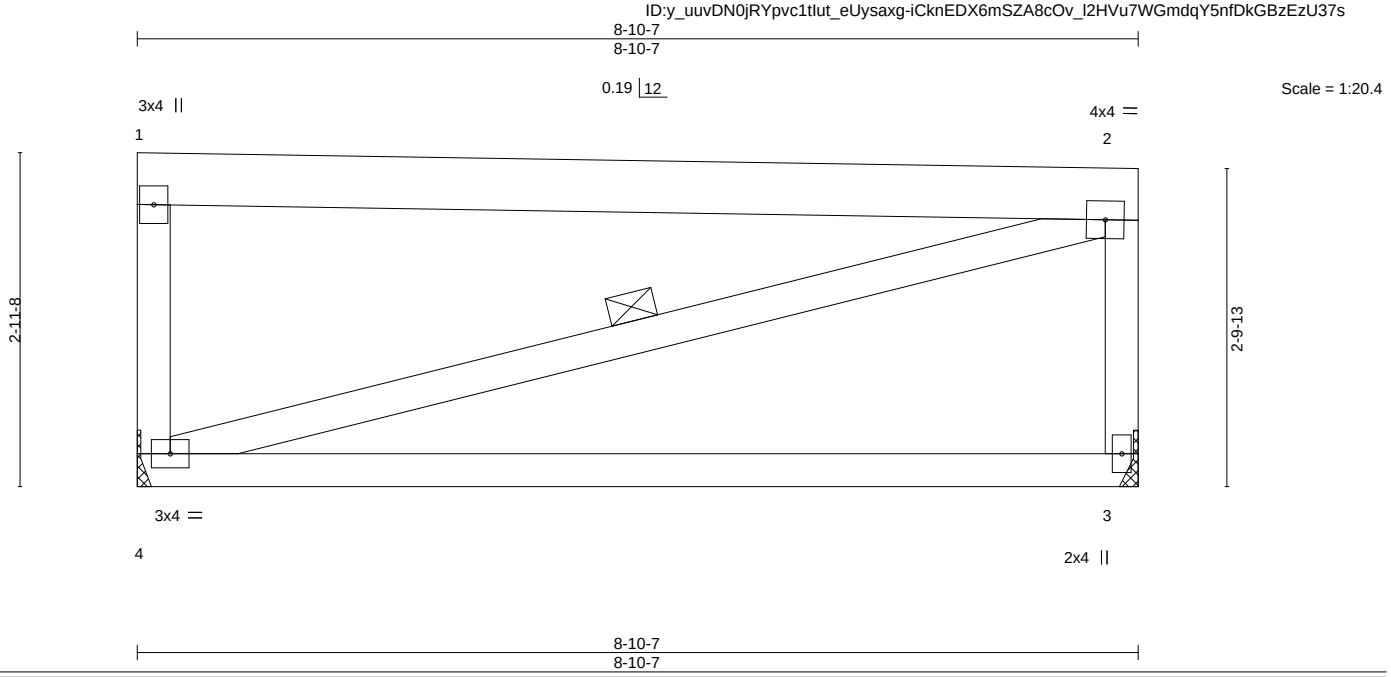
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T30	Roof Special	5	1	I51164997
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:15 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-iCknEDX6mSZA8cOv_l2HVu7WGmdqY5nfDkGBzEzU37s



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.32	3-4	>317	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 53 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 8-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-4

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-78(LC 11)
Max Uplift 4=-12(LC 16), 3=-29(LC 12)
Max Grav 4=411(LC 22), 3=411(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-326/360, 2-3=-326/380

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

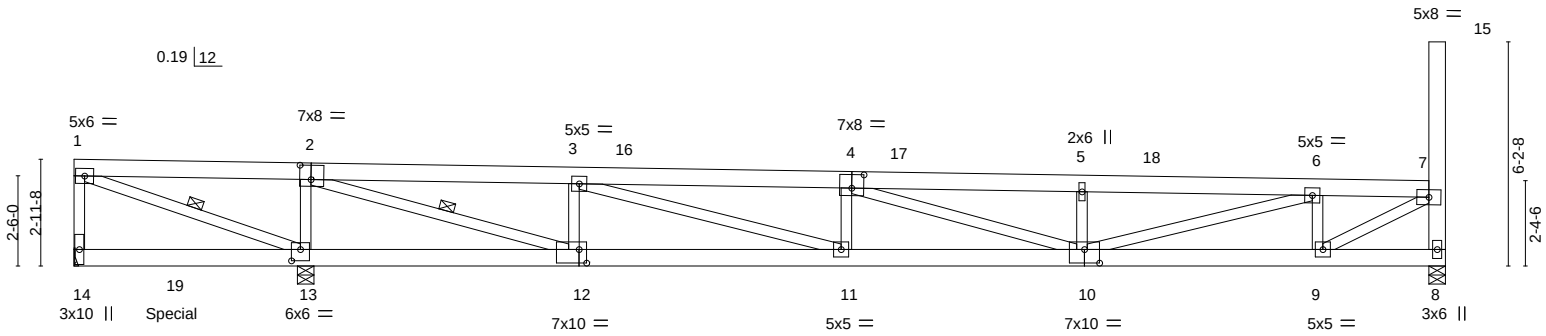
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T31	Roof Special Girder	1	1	I51164998
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:16 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-BOI9SZYlXlh1mmz6YTZW26gffAzdHLLpSO?kVhzU37r

6-5-0	13-10-3	21-4-12	27-11-1	34-5-6	37-11-14
6-5-0	7-5-3	7-6-9	6-6-5	6-6-5	3-6-8

Scale: 3/16"=1'



6-5-0	13-10-3	21-4-12	27-11-1	34-5-6	37-11-14
6-5-0	7-5-3	7-6-9	6-6-5	6-6-5	3-6-8

Plate Offsets (X,Y)-- [2:0-3-12,0-4-12], [4:0-4-0,0-4-8], [10:0-5-0,0-4-8], [12:0-2-8,0-4-8], [13:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.30	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.59	10-11	>634	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1, 2-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS	1 Row at midpt 1-13, 2-12

REACTIONS. (size) 14=Mechanical, 8=0-5-8, 13=0-5-8
Max Horz 14=-280(LC 11)
Max Uplift 14=-672(LC 22), 8=-85(LC 40), 13=-169(LC 16)
Max Grav 14=87(LC 40), 8=1626(LC 22), 13=3254(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-182/768, 1-2=-694/2434, 2-3=-1868/663, 3-4=-4237/1376, 4-5=-4383/1473, 5-6=-4368/1459, 6-7=-2443/1005, 7-8=-1576/439
BOT CHORD	13-14=-328/329, 12-13=-2310/897, 11-12=-684/1787, 10-11=-1226/4273, 9-10=-737/2440
WEBS	1-13=-2616/773, 2-13=-1957/717, 2-12=-1335/4386, 3-12=-1258/510, 3-11=-792/2554, 4-11=-594/312, 5-10=-507/258, 6-10=-732/2008, 6-9=-1243/405, 7-9=-702/2688

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-9-2, Corner(3) 22-9-2 to 37-9-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 14=672, 13=169.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 42 lb up at 2-8-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

April 5,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-169(F)
   Trapezoidal Loads (plf)
   Vert: 18=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-145(F)
   Trapezoidal Loads (plf)
   Vert: 18=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-145(F)
   Trapezoidal Loads (plf)
   Vert: 18=-39-to-7=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-145(F)
   Trapezoidal Loads (plf)
   Vert: 18=-67-to-7=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-169(F)
   Trapezoidal Loads (plf)
   Vert: 18=-42-to-7=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-18=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-169(F)
   Trapezoidal Loads (plf)
   Vert: 18=-79-to-7=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-18=-55, 8-14=-20
   Horz: 1-14=18, 7-8=5, 7-15=38
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 19=27(F)
   Trapezoidal Loads (plf)
   Vert: 18=-55-to-7=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-18=-48, 8-14=-20
   Horz: 1-14=-5, 7-8=-18, 7-15=-38
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 19=27(F)
   Trapezoidal Loads (plf)
   Vert: 18=-48-to-7=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-18=-55, 8-14=-20
   Horz: 1-14=14, 7-8=3, 7-15=25
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 19=27(F)
   Trapezoidal Loads (plf)
   Vert: 18=-55-to-7=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-18=-48, 8-14=-20
   Horz: 1-14=-3, 7-8=-14, 7-15=25
   Drag: 1-7=0
   Concentrated Loads (lb)
   Vert: 19=27(F)

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 18=-48-to-7=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-169(F)
Trapezoidal Loads (plf)
Vert: 18=-70-to-7=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-55, 8-14=-20
Horz: 1-14=18, 7-8=5, 7-15=38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 19=-114(F)
Trapezoidal Loads (plf)
Vert: 18=-55-to-7=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-48, 8-14=-20
Horz: 1-14=-5, 7-8=-18, 7-15=-38
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 19=-114(F)
Trapezoidal Loads (plf)
Vert: 18=-48-to-7=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-55, 8-14=-20
Horz: 1-14=14, 7-8=3, 7-15=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 19=-114(F)
Trapezoidal Loads (plf)
Vert: 18=-55-to-7=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-48, 8-14=-20
Horz: 1-14=-3, 7-8=-14, 7-15=25
Drag: 1-7=0
Concentrated Loads (lb)
Vert: 19=-114(F)
Trapezoidal Loads (plf)
Vert: 18=-48-to-7=-108

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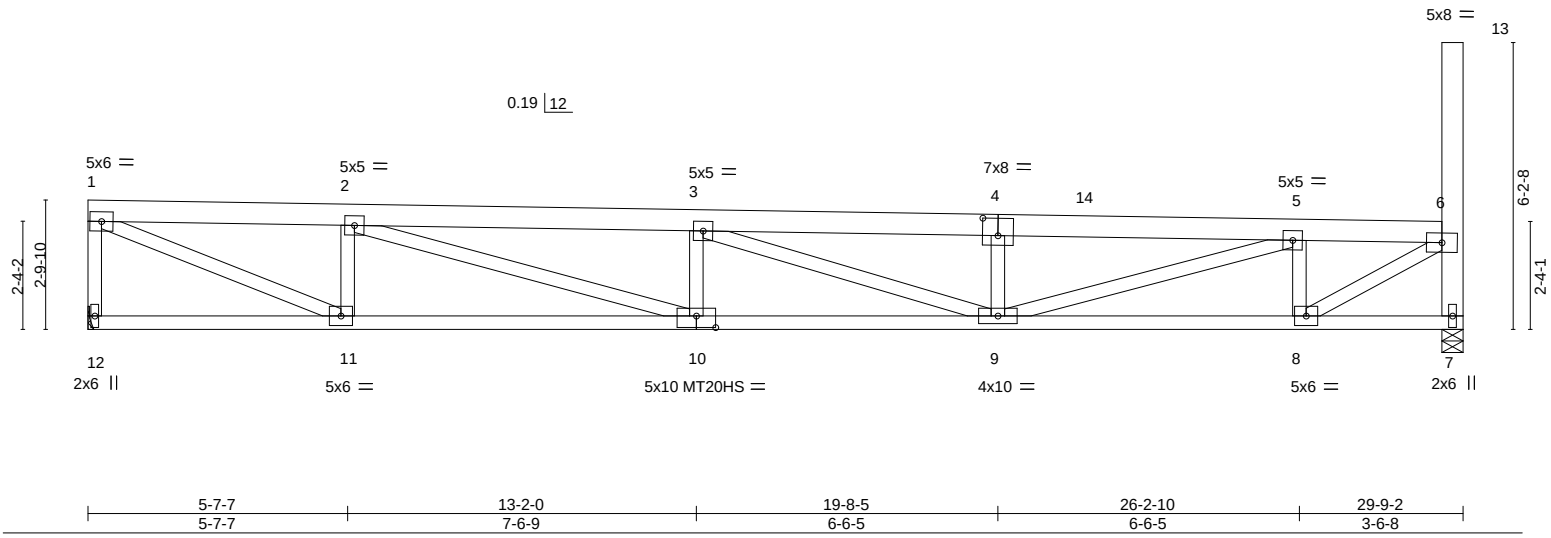
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T32	Roof Special	1	1	I51164999
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:17 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-fasXfvYNI3puOwYI6A4lbJCthaEi0nQyh2lI17zU37q

5-7-7	13-2-0	19-8-5	26-2-10	29-9-2
5-7-7	7-6-9	6-6-5	6-6-5	3-6-8

Scale = 1:49.9



5-7-7	13-2-0	19-8-5	26-2-10	29-9-2
5-7-7	7-6-9	6-6-5	6-6-5	3-6-8

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.33	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.65	9-10	>545	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 184 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-2 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=-279(LC 11)
Max Uplift 12=-82(LC 16), 7=-94(LC 12)
Max Grav 12=1464(LC 22), 7=1726(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1415/578, 1-2=-2952/1109, 2-3=-4970/1920, 3-4=-4814/1931, 4-5=-4816/1926, 5-6=-2537/1215, 6-7=-1696/582
BOT CHORD	11-12=-387/319, 10-11=-1310/2948, 9-10=-1846/4965, 8-9=-932/2534
WEBS	1-11=-1225/3177, 2-11=-1148/584, 2-10=-855/2111, 3-10=-484/340, 3-9=-295/262, 4-9=-521/312, 5-9=-1074/2382, 5-8=-1348/532, 6-8=-925/2851

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-66-to-6=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=18, 6-7=5, 6-13=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-5, 6-7=-18, 6-13=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-55, 7-12=-20
Horz: 1-12=14, 6-7=3, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-48, 7-12=-20
Horz: 1-12=-3, 6-7=-14, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 14=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

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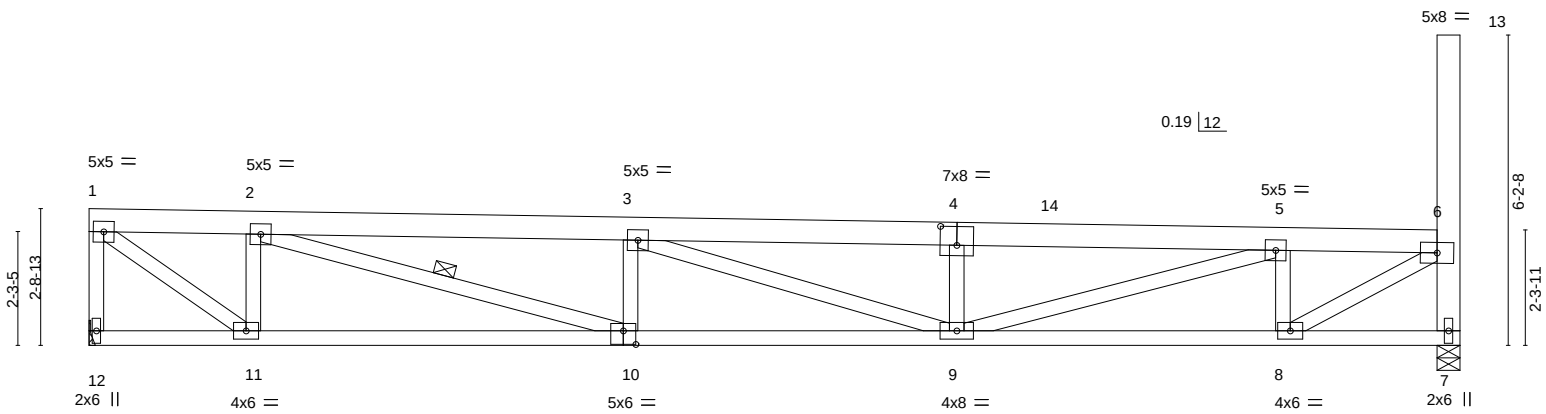
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T33	Roof Special Structural Gable	1	1	I51165000
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:18 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7nQwsEZ?3Nxl047Uftb_7Xl2?_dWlFD5viUraZzU37p

3-3-7 | 10-10-0 | 17-4-5 | 23-10-10 | 27-5-2
3-3-7 | 7-6-9 | 6-6-5 | 6-6-5 | 3-6-8

Scale = 1:46.1



3-3-7 | 10-10-0 | 17-4-5 | 23-10-10 | 27-5-2
3-3-7 | 7-6-9 | 6-6-5 | 6-6-5 | 3-6-8

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.25	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.50	9-10	>645	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
7-10: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
7-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-8 oc bracing.
WEBS 1 Row at midpt 2-10

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=-279(LC 13)
Max Uplift 12=-79(LC 16), 7=-92(LC 12)
Max Grav 12=1347(LC 22), 7=1604(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1338/554, 1-2=-1801/719, 2-3=-4148/1717, 3-4=-4317/1857, 4-5=-4319/1851, 5-6=-2367/1215, 6-7=-1574/580
BOT CHORD 11-12=-397/330, 10-11=-995/1797, 9-10=-1693/4143, 8-9=-927/2363
WEBS 1-11=-920/2234, 2-11=-1208/630, 2-10=-1050/2453, 3-10=-579/397, 4-9=-521/328, 5-9=-1030/2038, 5-8=-1230/526, 6-8=-922/2646

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T33	Roof Special Structural Gable	1	1	I51165000
					Job Reference (optional)

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-65-to-6=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-77, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-77-to-6=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-14=-55, 7-12=-20
      Horz: 1-12=18, 6-7=5, 6-13=38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 14=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-14=-48, 7-12=-20
      Horz: 1-12=-5, 6-7=-18, 6-13=-38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 14=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-14=-55, 7-12=-20
      Horz: 1-12=14, 6-7=3, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 14=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-14=-48, 7-12=-20
      Horz: 1-12=-3, 6-7=-14, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 14=-48-to-6=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 14=-70-to-6=-150

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Chesterfield, MO 63017

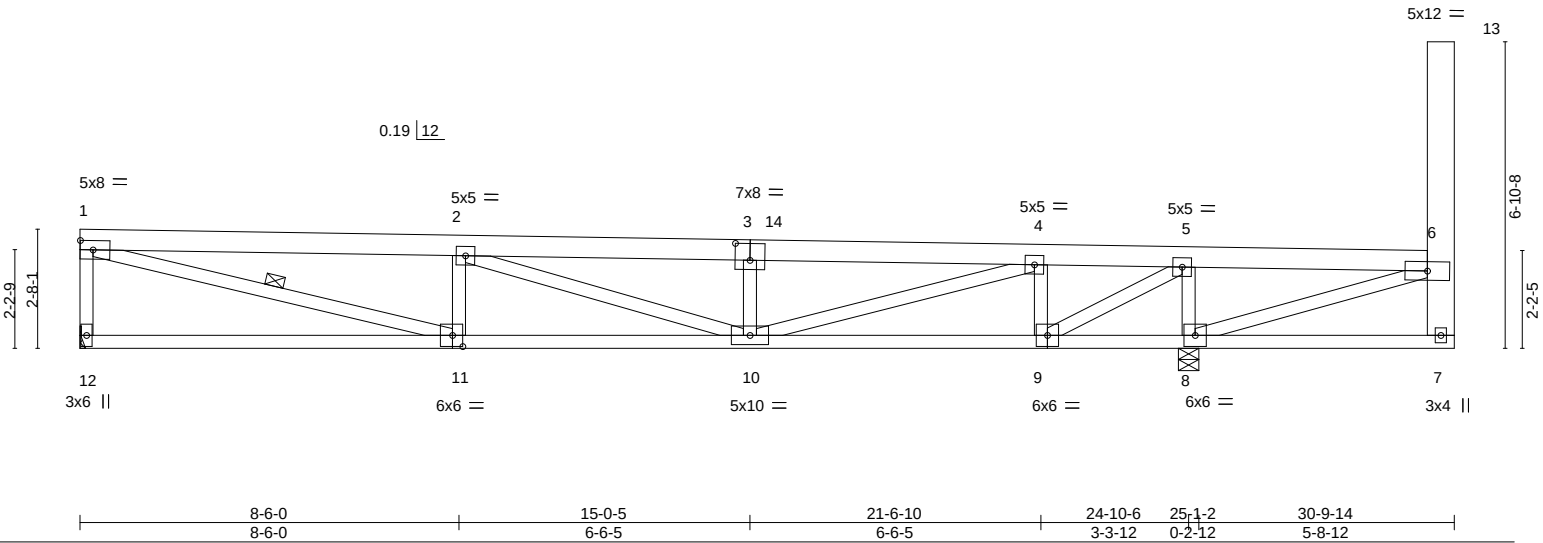
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T34	Roof Special	1	1	I51165001
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-bz_I4aadqg3cdEihDb6DgkICFNytUhxF8MEO6?zU37o

8-6-0 | 15-0-5 | 21-6-10 | 24-10-6 | 30-9-14
8-6-0 | 6-6-5 | 6-6-5 | 3-3-12 | 5-11-8

Scale = 1:51.7



8-6-0 | 15-0-5 | 21-6-10 | 24-10-6 | 25-1-2 | 30-9-14
8-6-0 | 6-6-5 | 6-6-5 | 3-3-12 | 0-2-12 | 5-8-12

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [11:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.17	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.37	10-11	>801	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 194 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
7-13: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-3 oc bracing.
WEBS 1 Row at midpt 1-11

REACTIONS. (size) 12=Mechanical, 8=0-5-8
Max Horz 12=-317(LC 11)
Max Uplift 12=-79(LC 16), 8=-249(LC 12)
Max Grav 12=1111(LC 22), 8=2086(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1026/467, 1-2=-2894/1128, 2-3=-2877/1222, 3-4=-2878/1217, 4-5=-1289/614, 5-6=-1405/1205
BOT CHORD 11-12=-454/347, 10-11=-1122/2889, 9-10=-288/1101, 8-9=-1026/988, 7-8=-343/426
WEBS 1-11=-1162/2875, 2-11=-611/413, 2-10=-151/311, 3-10=-483/283, 4-10=-1076/2143, 4-9=-971/551, 5-9=-904/2130, 5-8=-1623/687, 6-8=-1157/614

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-6-4, Corner(3) 15-6-4 to 30-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=249.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-66-to-6=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-78-to-6=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 6-7=5, 6-13=38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 8-12=-20, 7-8=-5
Horz: 1-12=-5, 6-7=-18, 6-13=-38
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 6-7=3, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 6-7=-14, 6-13=25
Drag: 1-6=0
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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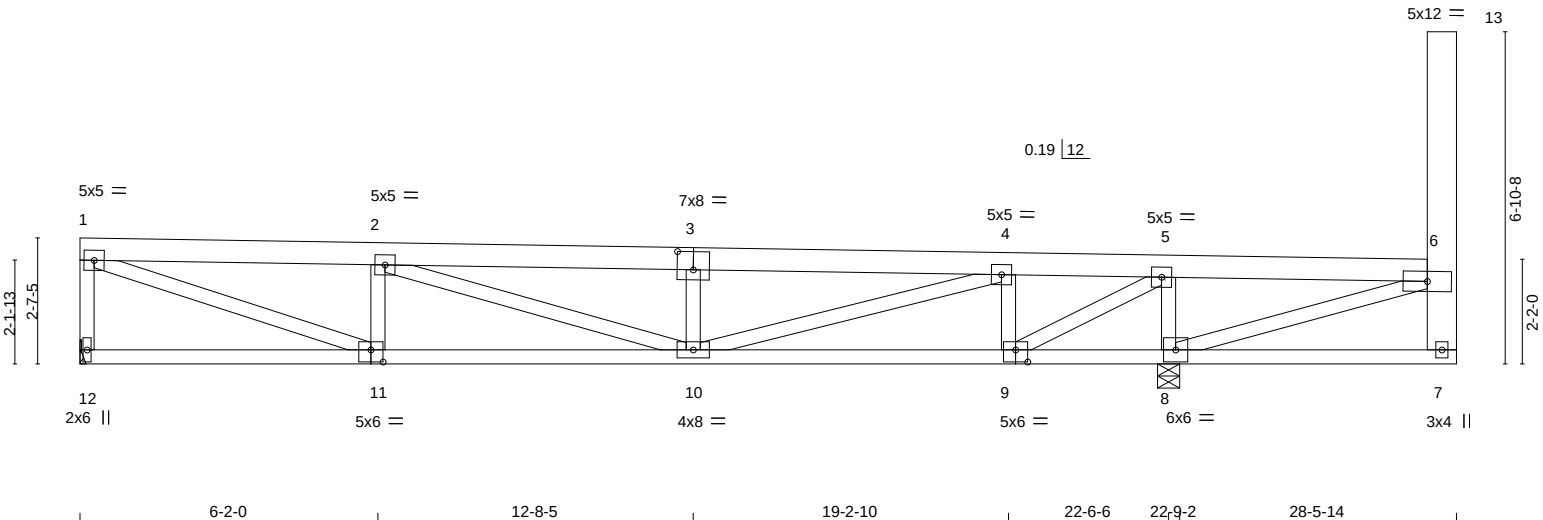
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T35	Roof Special	1	1	I51165002
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:20 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-39XgHwbFb_BTFOHtnIdSCyqQpnKKD8EON0zyeSzU37n

6-2-0 | 12-8-5 | 19-2-10 | 22-6-6 | 28-5-14
6-2-0 | 6-6-5 | 6-6-5 | 3-3-12 | 5-11-8

Scale: 1/4"=1'



6-2-0 | 12-8-5 | 19-2-10 | 22-6-6 | 22-9-2 | 28-5-14
6-2-0 | 6-6-5 | 6-6-5 | 3-3-12 | 0-3-12 | 5-8-12

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-3-0,0-3-0], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.11	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.25	10-11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 181 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
7-13: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-2 oc bracing.

REACTIONS. (size) 12=Mechanical, 8=0-5-8
Max Horz 12=-316(LC 11)
Max Uplift 12=-77(LC 16), 8=-250(LC 12)
Max Grav 12=983(LC 22), 8=1972(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-924/436, 1-2=-2065/866, 2-3=-2454/1115, 3-4=-2454/1109, 4-5=-1168/567, 5-6=-1493/1219
BOT CHORD 11-12=-459/354, 10-11=-948/2060, 9-10=-235/948, 8-9=-1034/1059, 7-8=-360/453
WEBS 1-11=-929/2135, 2-11=-617/408, 2-10=-269/518, 3-10=-510/321, 4-10=-1073/1850, 4-9=-865/549, 5-9=-911/1933, 5-8=-1511/702, 6-8=-1164/663

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=250.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-149

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-60-to-6=-119
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-39-to-6=-98
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-66-to-6=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-42-to-6=-121
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-77, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-77-to-6=-156
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-55, 7-12=-20
      Horz: 1-12=18, 6-7=5, 6-13=38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-48, 8-12=-20, 7-8=-5
      Horz: 1-12=-5, 6-7=-18, 6-13=-38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-48-to-6=-107
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-55, 7-12=-20
      Horz: 1-12=14, 6-7=3, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-48, 7-12=-20
      Horz: 1-12=-3, 6-7=-14, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-48-to-6=-107
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-70-to-6=-149

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T36	Roof Special	1	1	I51165003
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:21 2022 Page 1
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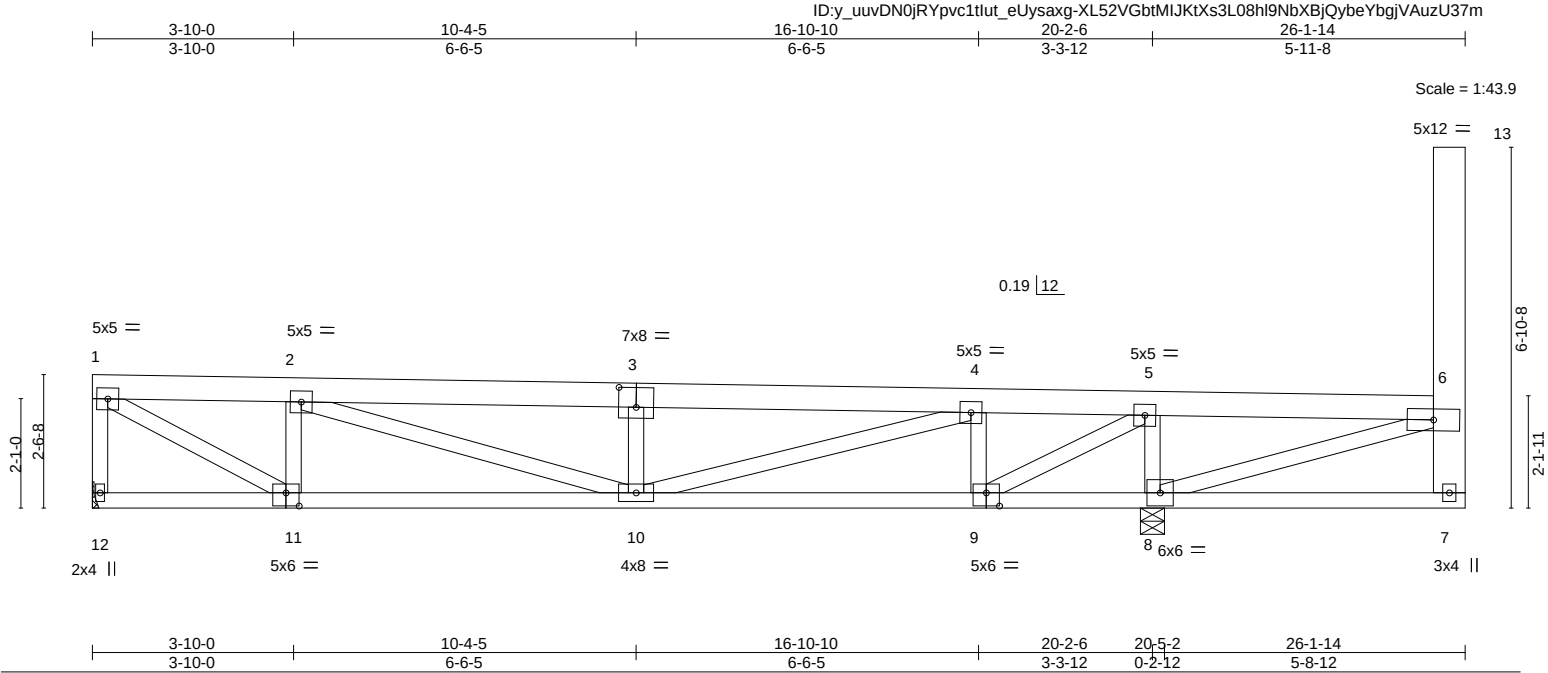

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-3-0,0-3-0], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.07	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.16	10-11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 169 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
7-13: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-10 oc bracing.

REACTIONS. (size) 12=Mechanical, 8=0-5-8
Max Horz 12=-316(LC 11)
Max Uplift 12=-75(LC 16), 8=-253(LC 12)
Max Grav 12=853(LC 22), 8=1868(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-824/399, 1-2=-1288/579, 2-3=-2016/977, 3-4=-2017/971, 4-5=-1046/510, 5-6=-1589/1242
BOT CHORD 11-12=-469/368, 10-11=-778/1285, 9-10=-185/826, 8-9=-1052/1138, 7-8=-379/484
WEBS 1-11=-688/1469, 2-11=-636/418, 2-10=-423/789, 3-10=-515/349, 4-10=-1063/1548, 4-9=-763/550, 5-9=-920/1744, 5-8=-1406/717, 6-8=-1182/716

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=253.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-65-to-6=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-77, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-77-to-6=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-55, 7-12=-20
      Horz: 1-12=18, 6-7=5, 6-13=38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-48, 8-12=-20, 7-8=-5
      Horz: 1-12=-5, 6-7=-18, 6-13=-38
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-55, 7-12=-20
      Horz: 1-12=14, 6-7=3, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-5=-48, 7-12=-20
      Horz: 1-12=-3, 6-7=-14, 6-13=25
      Drag: 1-6=0
   Trapezoidal Loads (plf)
      Vert: 5=-48-to-6=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-5=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 5=-70-to-6=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T37	Roof Special	1	1	I51165004
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:21 2022 Page 1
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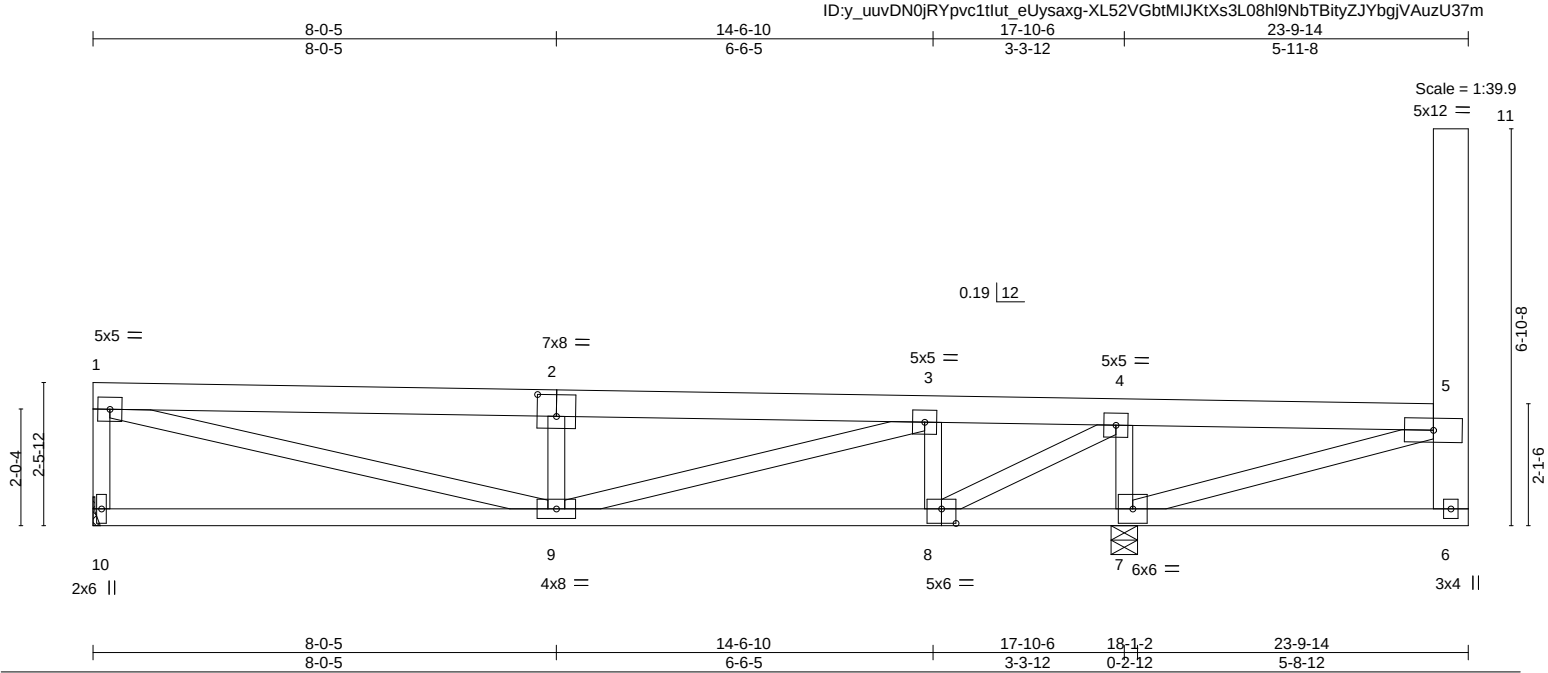

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.17	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	-0.01	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-11: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-6 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-5-8
Max Horz 10=-315(LC 13)
Max Uplift 10=-74(LC 16), 7=-257(LC 12)
Max Grav 10=721(LC 22), 7=1764(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-643/400, 1-2=-1631/843, 2-3=-1631/836, 3-4=-909/435, 4-5=-1694/1259
BOT CHORD 9-10=-507/345, 8-9=-172/688, 7-8=-1063/1223, 6-7=-399/518
WEBS 1-9=-860/1584, 2-9=-604/438, 3-9=-1100/1328, 3-8=-659/541, 4-8=-923/1535, 4-7=-1303/739, 5-7=-1191/773

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=257.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-70-to-5=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-65-to-5=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-77, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-77-to-5=-157
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-48, 7-10=-20, 6-7=-5
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-70-to-5=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T38	Roof Special	1	1	I51165005
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:22 2022 Page 1
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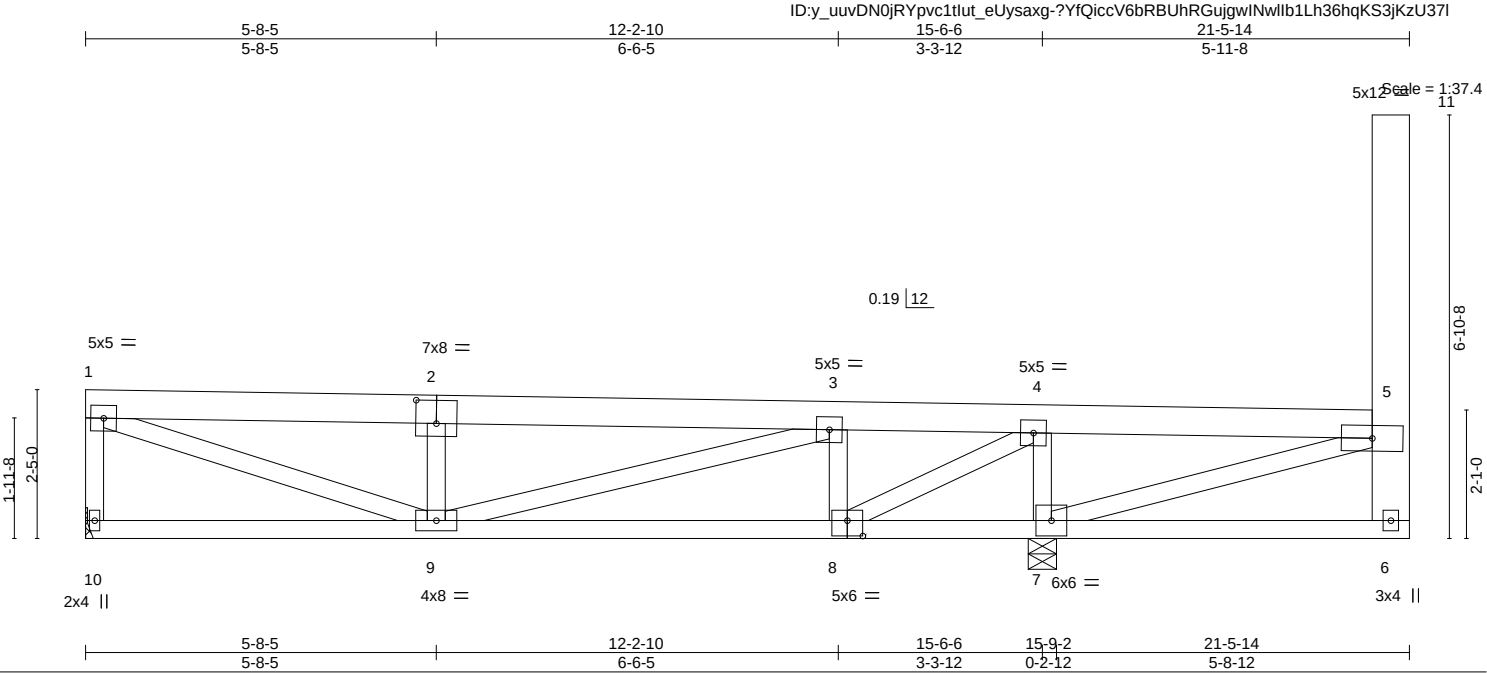

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.04	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.10	8-9	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.01	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 141 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-11: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-12 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-5-8
Max Horz 10=-314(LC 11)
Max Uplift 10=-74(LC 16), 7=-265(LC 12)
Max Grav 10=599(LC 2), 7=1665(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-548/352, 1-2=-1123/620, 2-3=-1124/614, 3-4=-957/421, 4-5=-1814/1282
BOT CHORD 9-10=-515/367, 8-9=-159/573, 7-8=-1081/1322, 6-7=-421/555
WEBS 1-9=-665/1147, 2-9=-494/380, 3-9=-1049/935, 3-8=-573/569, 4-8=-968/1389, 4-7=-1207/760, 5-7=-1209/841

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=265.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-70-to-5=-150

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-65-to-5=-125
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-76, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-76-to-5=-156
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-55, 6-10=-20
      Horz: 1-10=18, 5-6=5, 5-11=38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-48, 7-10=-20, 6-7=-5
      Horz: 1-10=-5, 5-6=-18, 5-11=-38
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-55, 6-10=-20
      Horz: 1-10=14, 5-6=3, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-48, 6-10=-20
      Horz: 1-10=-3, 5-6=-14, 5-11=25
      Drag: 1-5=0
   Trapezoidal Loads (plf)
      Vert: 4=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 4=-70-to-5=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T39	Roof Special Structural Gable	1	1	I51165006 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:23 2022 Page 1
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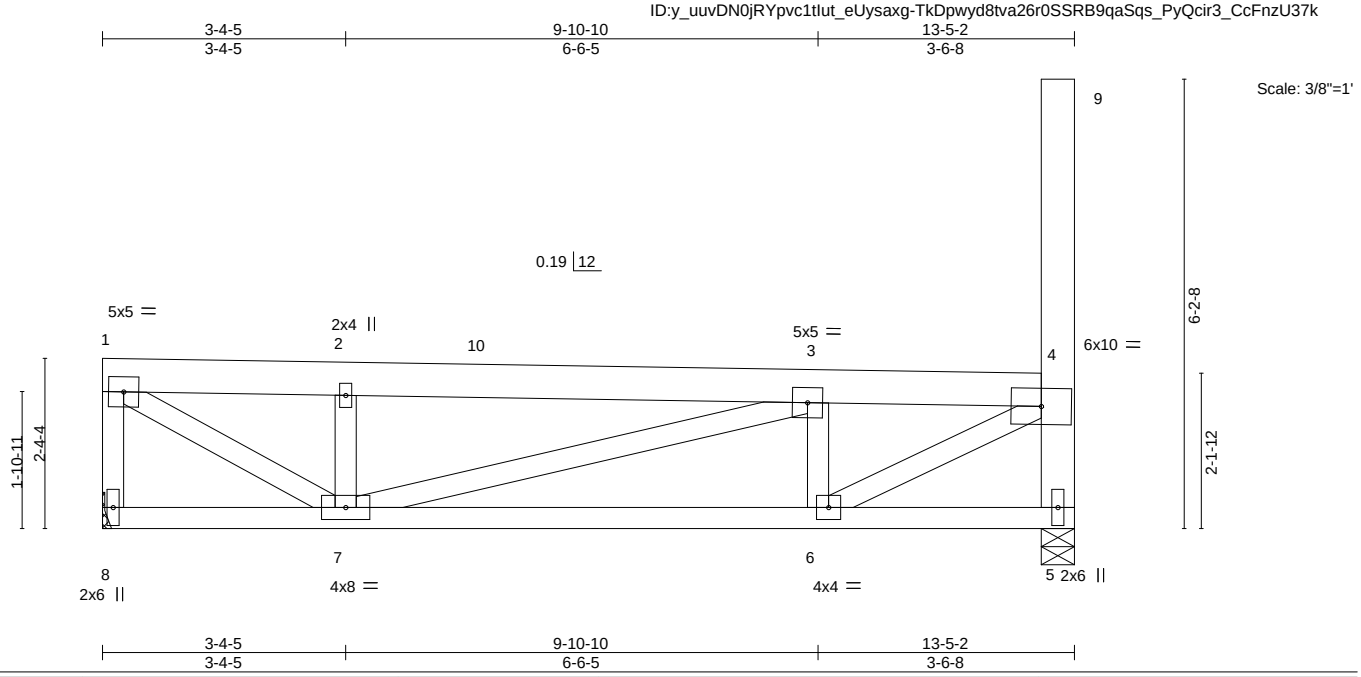

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 90 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-5-8
Max Horz 8=-275(LC 13)
Max Uplift 8=-69(LC 16), 5=-97(LC 12)
Max Grav 8=692(LC 22), 5=881(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-676/484, 1-2=-1049/695, 2-3=-1051/688, 3-4=-1244/1037, 4-5=-860/542
BOT CHORD 7-8=-524/367, 6-7=-708/1240, 5-6=-202/313
WEBS 1-7=-842/1227, 2-7=-472/417, 3-7=-533/371, 3-6=-516/414, 4-6=-736/1328

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 5-8=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 10=-60-to-4=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-39-to-4=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-64, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-64-to-4=-124

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-42-to-4=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-76, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-76-to-4=-156

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-55, 5-8=-20
Horz: 1-8=18, 4-5=5, 4-9=38
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 10=-55-to-4=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-48, 5-8=-20
Horz: 1-8=-5, 4-5=-18, 4-9=-38
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 10=-48-to-4=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-55, 5-8=-20
Horz: 1-8=14, 4-5=3, 4-9=25
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 10=-55-to-4=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-48, 5-8=-20
Horz: 1-8=-3, 4-5=-14, 4-9=25
Drag: 1-4=0
Trapezoidal Loads (plf)
Vert: 10=-48-to-4=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T40	Roof Special	1	1	I51165007
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:25 2022 Page 1
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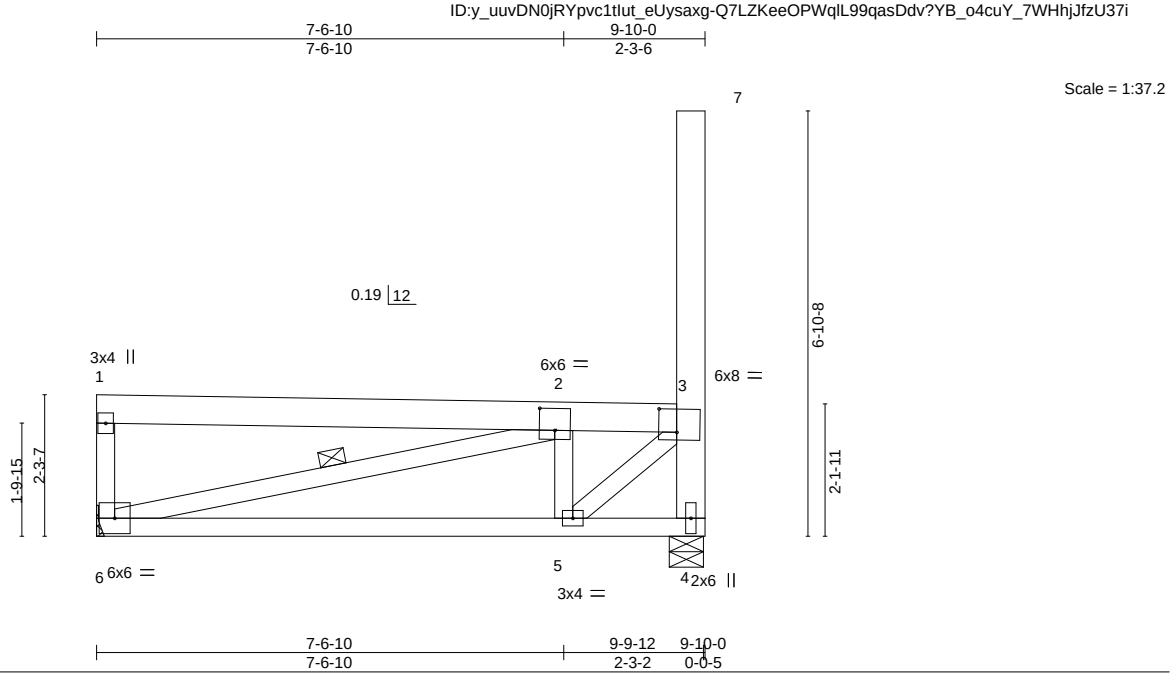

Plate Offsets (X,Y)-- [2:0-3-0,0-4-4], [3:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.13	5-6	>884	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 70 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-7: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

REACTIONS. (size) 6=Mechanical, 4=0-6-10
Max Horz 6=-308(LC 11)
Max Uplift 6=-92(LC 16), 4=-138(LC 12)
Max Grav 6=580(LC 22), 4=706(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-292/248, 2-3=-1019/1063, 3-4=-727/583
BOT CHORD 5-6=-679/929, 4-5=-296/495
WEBS 2-6=-1053/1135, 2-5=-657/522, 3-5=-656/1235

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=138.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-3=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-3=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-39-to-3=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-64-to-3=-124

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-42-to-3=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-76-to-3=-156

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=18, 3-4=5, 3-7=38
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 1=-55-to-3=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-5, 3-4=-18, 3-7=-38
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 1=-48-to-3=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=14, 3-4=3, 3-7=25
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 1=-55-to-3=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-6=-20
Horz: 1-6=-3, 3-4=-14, 3-7=25
Drag: 1-3=0
Trapezoidal Loads (plf)
Vert: 1=-48-to-3=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-3=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T41	Roof Special	1	1	I51165008
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:25 2022 Page 1
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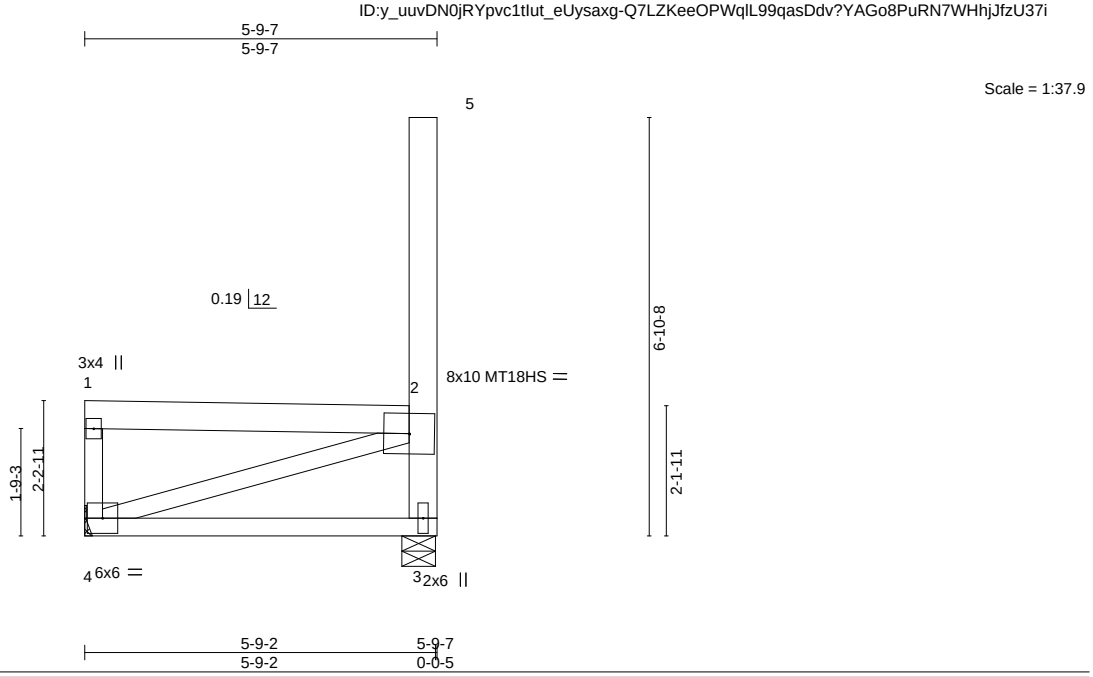

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	3-4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 46 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-1 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-6-10
Max Horz 4=-306(LC 13)
Max Uplift 4=-189(LC 11), 3=-216(LC 12)
Max Grav 4=390(LC 25), 3=466(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-217/253, 2-3=-412/816
BOT CHORD 3-4=-475/538
WEBS 2-4=-1367/975

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=189, 3=216.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-39-to-2=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-64-to-2=-124

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-42-to-2=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-76-to-2=-156

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Drag: 1-2=0
Trapezoidal Loads (plf)
Vert: 1=-55-to-2=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Drag: 1-2=0
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Drag: 1-2=0
Trapezoidal Loads (plf)
Vert: 1=-55-to-2=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Drag: 1-2=0
Trapezoidal Loads (plf)
Vert: 1=-48-to-2=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T42	Roof Special	1	1	I51165009
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:26 2022 Page 1
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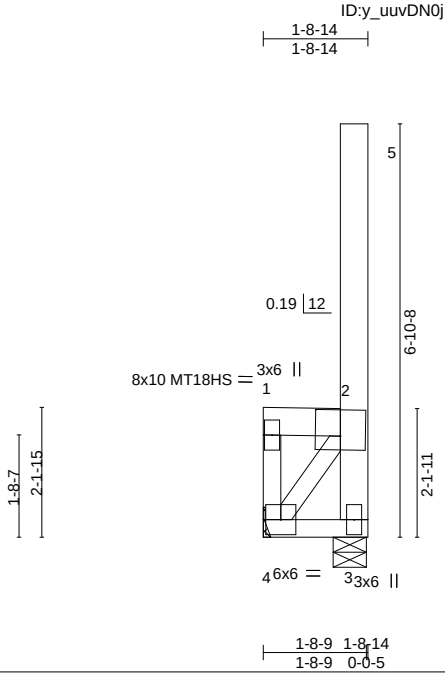

Plate Offsets (X,Y)-- [2:0-5-0,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-6-10
Max Horz 4=-304(LC 11)
Max Uplift 4=-808(LC 11), 3=-814(LC 12)
Max Grav 4=834(LC 14), 3=842(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-669/419, 2-3=-1102/2318
BOT CHORD 3-4=-242/393
WEBS 2-4=-1917/1034

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=808, 3=814.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-153, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-115, 3-4=-20
Horz: 1-4=18, 2-3=5, 2-5=38
Drag: 1-2=0

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-108, 3-4=-20
Horz: 1-4=-5, 2-3=-18, 2-5=-38
Drag: 1-2=0

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-115, 3-4=-20
Horz: 1-4=14, 2-3=3, 2-5=25
Drag: 1-2=0

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-108, 3-4=-20
Horz: 1-4=-3, 2-3=-14, 2-5=25
Drag: 1-2=0

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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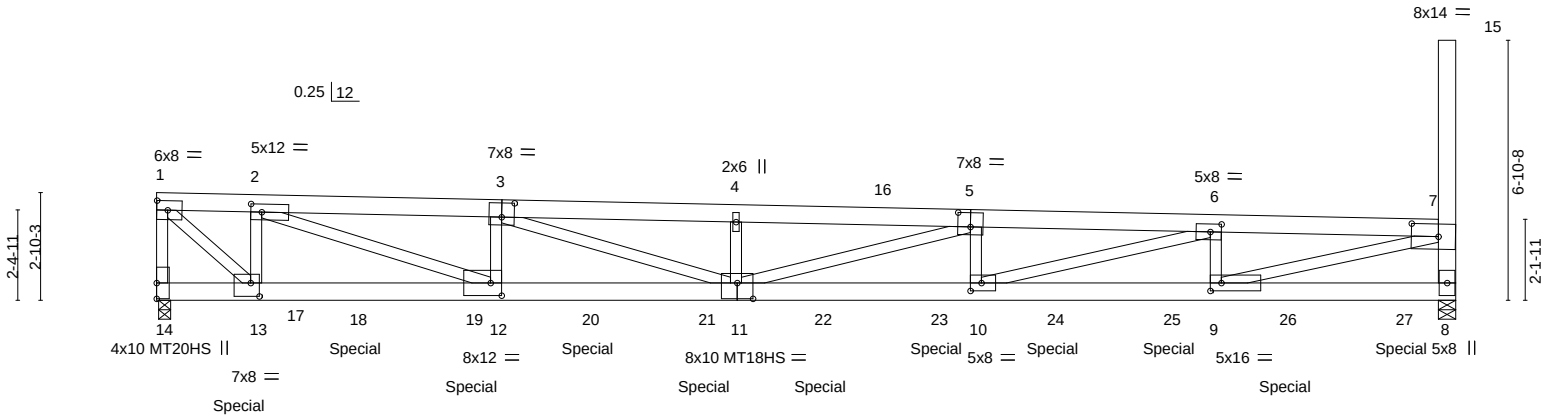
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T43G	Roof Special Girder	1	2	I51165010
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:28 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-qi0izfhGiRCKCcuPF_mKXeAiV??i5msaCFvNw_zU37f

2-7-10	8-11-12	15-3-14	21-8-0	28-0-2	34-4-4
2-7-10	6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:60.9



0-0-10 2-7-10	8-11-12	15-3-14	21-8-0	28-0-2	34-4-4
0-0-10 2-6-15	6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-3-7,0-3-0], [2:0-3-7,0-2-9], [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [6:0-3-8,0-2-8], [7:0-8-9,0-4-0], [9:0-3-8,0-2-8], [10:0-3-8,0-2-8], [11:0-5-0,0-5-0], [12:0-3-8,0-4-0], [13:0-2-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.74	10-11	>549	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-1.48	10-11	>275	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.15	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 479 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP 2400F 2.0E *Except* 1-3: 2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1, 1-13,6-10: 2x4 SP No.1 2-12,7-9: 2x4 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-13 (req. 0-4-2), 8=0-5-8
Max Horz 14=-322(LC 11)
Max Uplift 14=-650(LC 16), 8=-1440(LC 12)
Max Grav 14=7020(LC 22), 8=5073(LC 22)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-7165/1133, 1-2=-7693/1196, 2-3=-19742/3427, 3-4=-24697/4765, 4-5=-24690/4755, 5-6=-23235/5021, 6-7=-15000/4113, 7-8=-4768/1194
BOT CHORD	13-14=-414/396, 12-13=-1521/7688, 11-12=-3566/19876, 10-11=-4711/23294, 9-10=-3797/14985, 8-9=-673/922
WEBS	1-13=-1664/10525, 2-13=-4667/1025, 2-12=-2383/12836, 3-12=-2065/711, 3-11=-1375/5104, 4-11=-462/267, 5-11=-14/1648, 5-10=-968/298, 6-10=-1309/8567, 6-9=-2981/577, 7-9=-3534/14760

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 19-1-7, Corner(3) 19-1-7 to 34-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.

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NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=650, 8=1440.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1433 lb down and 113 lb up at 2-2-6, 1316 lb down and 110 lb up at 5-3-4, 1080 lb down and 110 lb up at 8-4-2, 953 lb down and 107 lb up at 11-5-0, 822 lb down and 105 lb up at 14-5-15, 690 lb down and 104 lb up at 17-6-13, 568 lb down and 105 lb up at 20-7-11, 661 lb down and 100 lb up at 23-8-9, 549 lb down and 123 lb up at 26-9-7, and 326 lb down and 220 lb up at 29-10-5, and 826 lb down and 820 lb up at 32-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1433(B) 18=-1316(B) 19=-1080(B) 20=-953(B) 21=-822(B) 22=-690(B) 23=-554(B) 24=-661(B) 25=-549(B) 26=-301(B) 27=-106(B)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1251(B) 18=-1149(B) 19=-949(B) 20=-838(B) 21=-724(B) 22=-609(B) 23=-491(B) 24=-569(B) 25=-463(B) 26=-252(B) 27=-85(B)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1251(B) 18=-1149(B) 19=-949(B) 20=-838(B) 21=-724(B) 22=-609(B) 23=-491(B) 24=-569(B) 25=-463(B) 26=-252(B) 27=-85(B)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1251(B) 18=-1149(B) 19=-949(B) 20=-838(B) 21=-724(B) 22=-609(B) 23=-491(B) 24=-569(B) 25=-463(B) 26=-252(B) 27=-85(B)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1433(B) 18=-1316(B) 19=-1080(B) 20=-953(B) 21=-822(B) 22=-690(B) 23=-554(B) 24=-661(B) 25=-549(B) 26=-301(B) 27=-106(B)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-1433(B) 18=-1316(B) 19=-1080(B) 20=-953(B) 21=-822(B) 22=-690(B) 23=-554(B) 24=-661(B) 25=-549(B)
   26=-301(B) 27=-106(B)
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-55, 8-14=-20
   Horz: 1-14=18, 1-7=5, 7-8=5, 7-15=38
   Concentrated Loads (lb)
   Vert: 17=4(B) 18=9(B) 19=20(B) 20=25(B) 21=31(B) 22=38(B) 23=46(B) 24=44(B) 25=72(B) 26=156(B) 27=568(B)
   Trapezoidal Loads (plf)
   Vert: 6=-55-to-7=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-48, 8-14=-20
   Horz: 1-14=-5, 1-7=12, 7-8=-18, 7-15=-38
   Concentrated Loads (lb)
   Vert: 17=4(B) 18=9(B) 19=20(B) 20=25(B) 21=31(B) 22=38(B) 23=46(B) 24=44(B) 25=72(B) 26=156(B) 27=568(B)
   Trapezoidal Loads (plf)
   Vert: 6=-48-to-7=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-55, 8-14=-20
   Horz: 1-14=14, 1-7=5, 7-8=3, 7-15=25
   Concentrated Loads (lb)
   Vert: 17=4(B) 18=9(B) 19=20(B) 20=25(B) 21=31(B) 22=38(B) 23=46(B) 24=44(B) 25=72(B) 26=156(B) 27=568(B)
   Trapezoidal Loads (plf)
   Vert: 6=-55-to-7=-115

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LOAD CASE(S) Standard

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-3, 1-7=12, 7-8=-14, 7-15=25
Concentrated Loads (lb)
Vert: 17=4(B) 18=9(B) 19=20(B) 20=25(B) 21=31(B) 22=38(B) 23=46(B) 24=44(B) 25=72(B) 26=156(B) 27=568(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-1433(B) 18=-1316(B) 19=-1080(B) 20=-953(B) 21=-822(B) 22=-690(B) 23=-554(B) 24=-661(B) 25=-549(B) 26=-301(B) 27=-106(B)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 8-14=-20
Horz: 1-14=18, 1-7=5, 7-8=5, 7-15=38
Concentrated Loads (lb)
Vert: 17=-1004(B) 18=-923(B) 19=-754(B) 20=-664(B) 21=-578(B) 22=-498(B) 23=-417(B) 24=-463(B) 25=-412(B) 26=-326(B) 27=-668(B)
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-5, 1-7=12, 7-8=-18, 7-15=-38
Concentrated Loads (lb)
Vert: 17=-1004(B) 18=-923(B) 19=-754(B) 20=-664(B) 21=-578(B) 22=-498(B) 23=-417(B) 24=-463(B) 25=-412(B) 26=-326(B) 27=-668(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-55, 8-14=-20
Horz: 1-14=14, 1-7=5, 7-8=3, 7-15=25
Concentrated Loads (lb)
Vert: 17=-1004(B) 18=-923(B) 19=-754(B) 20=-664(B) 21=-578(B) 22=-498(B) 23=-417(B) 24=-463(B) 25=-412(B) 26=-326(B) 27=-668(B)
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-14=-20
Horz: 1-14=-3, 1-7=12, 7-8=-14, 7-15=25
Concentrated Loads (lb)
Vert: 17=-1004(B) 18=-923(B) 19=-754(B) 20=-664(B) 21=-578(B) 22=-498(B) 23=-417(B) 24=-463(B) 25=-412(B) 26=-326(B) 27=-668(B)
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

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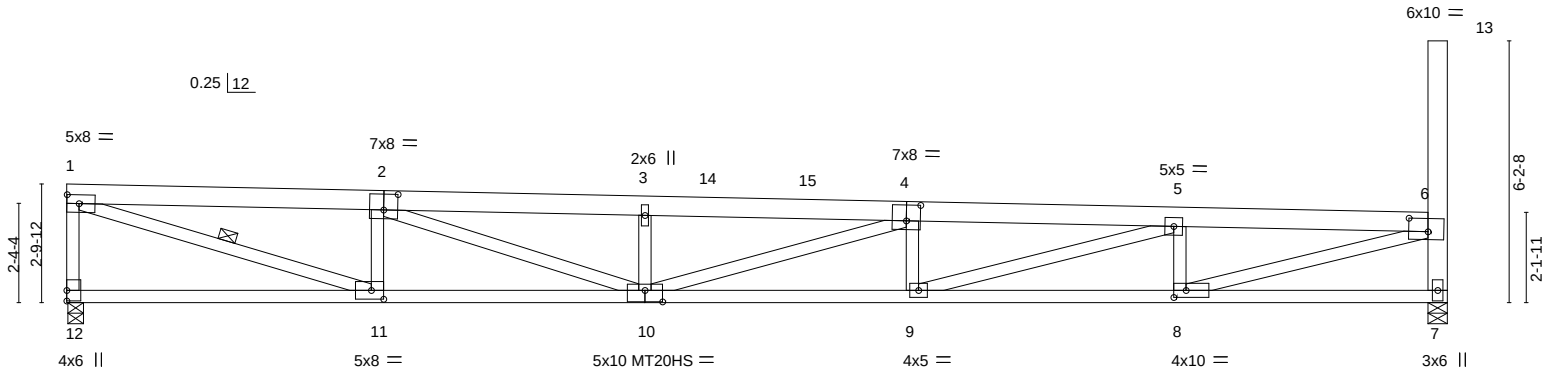
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T44	Roof Special	1	1	I51165011
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-lua4A?iuTlKBqmTcphIZ4riv6PMxqChjRvfwTQzU37e

7-4-7	13-8-9	20-0-11	26-4-13	32-8-15
7-4-7	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:54.6



0-0-5	7-4-7	13-8-9	20-0-11	26-4-13	32-8-15
0-0-5	7-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [6:0-5-8,0-3-12], [8:0-3-8,0-2-0], [10:0-5-0,0-3-4], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.47	9-10	>830	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.94	9-10	>414	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	7-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	7-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-6 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-4-7, 7=0-5-8
Max Horz 12=-290(LC 11)
Max Uplift 12=-88(LC 16), 7=-98(LC 12)
Max Grav 12=1623(LC 22), 7=1836(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1547/591, 1-2=-4105/1398, 2-3=-6048/2096, 3-4=-6049/2089, 4-5=-6289/2258, 5-6=-4539/1792, 6-7=-1761/595
BOT CHORD	11-12=-383/317, 10-11=-1583/4179, 9-10=-1980/6309, 8-9=-1506/4529, 7-8=-269/330
WEBS	1-11=-1476/4230, 2-11=-1220/568, 2-10=-714/1986, 3-10=-473/257, 4-10=-281/201, 4-9=-397/307, 5-9=-797/1829, 5-8=-1122/502, 6-8=-1520/4450

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 17-6-3, Corner(3) 17-6-3 to 32-6-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

April 5,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-67-to-6=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-79-to-6=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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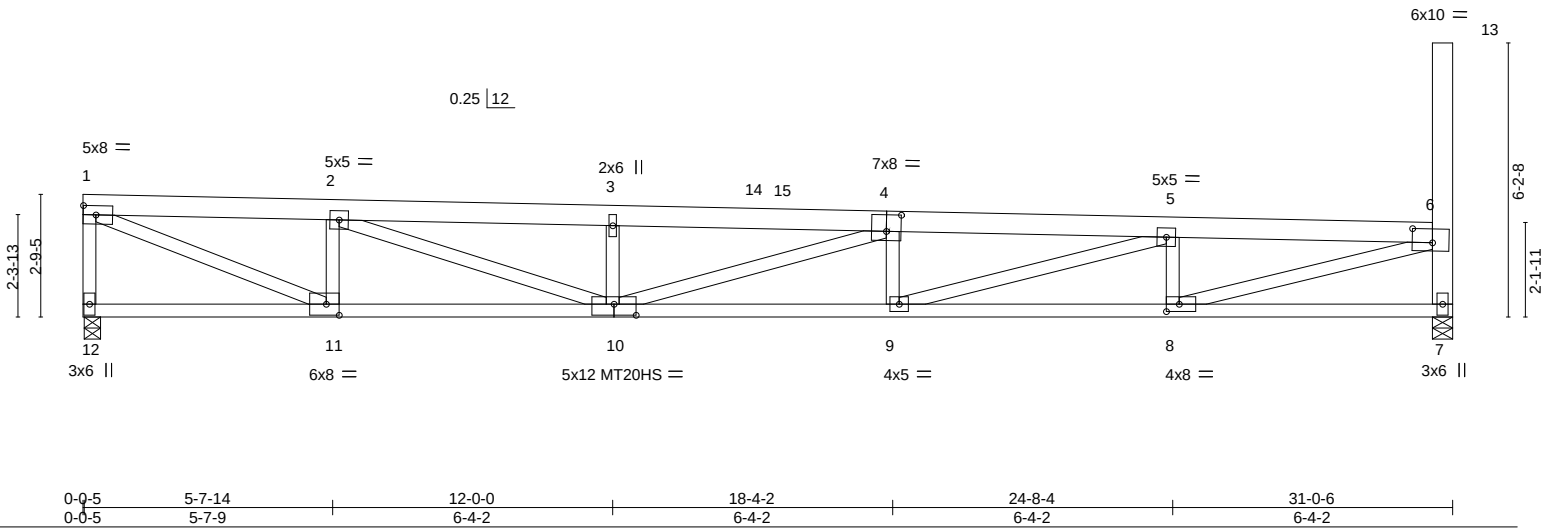
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T45	Roof Special	1	1	I51165012
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-m48SOLiXE2S2Sw2oMPpoc3F4epgCZg1tgZOU?tzU37d

5-7-14	12-0-0	18-4-2	24-8-4	31-0-6
5-7-14	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.2



0-0-5	5-7-14	12-0-0	18-4-2	24-8-4	31-0-6
0-0-5	5-7-9	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [4:0-4-0,0-4-8], [6:0-5-8,0-3-12], [8:0-3-8,0-2-0], [10:0-6-0,0-3-0], [11:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.39	9-10	>948	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.78	9-10	>474	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1, 6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-1 oc bracing.

REACTIONS. (size) 12=0-4-7, 7=0-5-8
Max Horz 12=-289(LC 11)
Max Uplift 12=-85(LC 16), 7=-96(LC 12)
Max Grav 12=1534(LC 22), 7=1746(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1478/582, 1-2=-3139/1131, 2-3=-5312/1950, 3-4=-5305/1939, 4-5=-5745/2184, 5-6=-4253/1773, 6-7=-1672/597
BOT CHORD	11-12=-384/328, 10-11=-1330/3133, 9-10=-1924/5761, 8-9=-1485/4243, 7-8=-272/325
WEBS	1-11=-1243/3360, 2-11=-1223/577, 2-10=-879/2308, 3-10=-498/289, 4-10=-486/280, 4-9=-322/294, 5-9=-756/1560, 5-8=-1042/500, 6-8=-1512/4161

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-9-10, Corner(3) 15-9-10 to 30-9-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-67-to-6=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-79-to-6=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-107

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-107

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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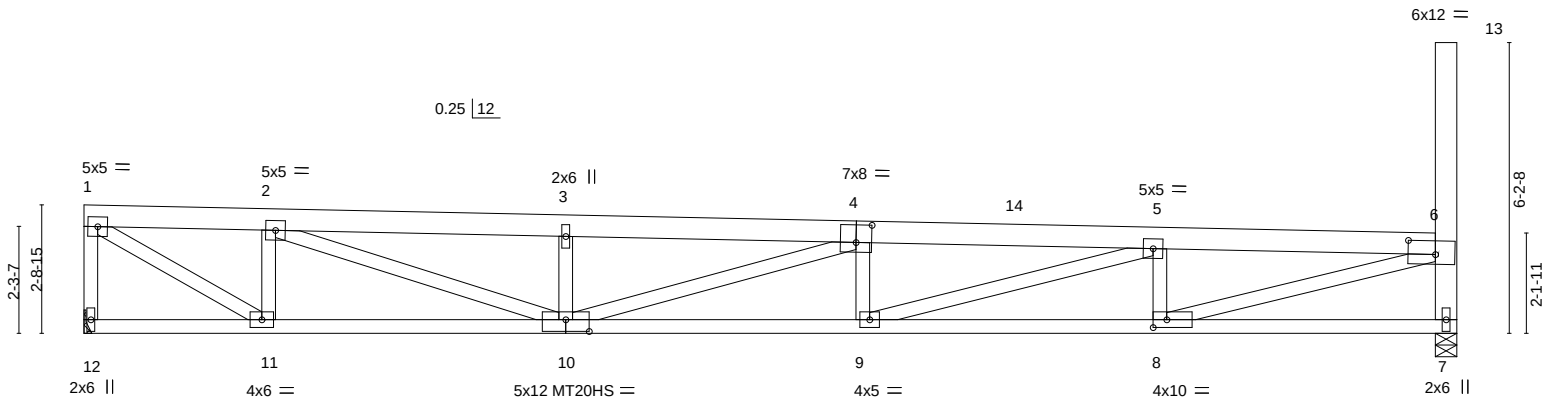
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T46	Roof Special	1	1	I51165013
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:31 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-EHiqbhj9?Mav34d_w6K19GnF8D4JI5f0vD81XJzU37c

3-11-5	10-3-7	16-7-9	22-11-11	29-3-12
3-11-5	6-4-2	6-4-2	6-4-2	6-4-1

Scale = 1:49.2



3-11-5	10-3-7	16-7-9	22-11-11	29-3-12
3-11-5	6-4-2	6-4-2	6-4-2	6-4-1

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [6:0-7-0,0-3-8], [8:0-3-8,0-2-0], [10:0-6-0,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.33	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.65	9-10	>536	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	-0.09	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 181 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
7-10: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
7-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 7=-288(LC 11)
Max Uplift 12=-82(LC 16), 7=-94(LC 12)
Max Grav 12=1439(LC 22), 7=1574(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1408/568, 1-2=-2184/825, 2-3=-4517/1763, 3-4=-4516/1755, 4-5=-5346/2089, 5-6=-3872/1739, 6-7=-1499/597
BOT CHORD 10-11=-870/2180, 9-10=-2167/5363, 8-9=-1814/3863, 7-8=-641/691
WEBS 1-11=-991/2539, 2-11=-1234/593, 2-10=-1004/2544, 3-10=-495/304, 4-10=-918/372, 4-9=-339/280, 5-9=-715/1614, 5-8=-938/494, 6-8=-1484/3780

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

April 5,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-121

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 6-14=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 3=-60-to-14=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-39, 6-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 3=-39-to-14=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-67, 6-14=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 3=-67-to-14=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-93

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-79-to-6=-130

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-55, 6-14=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Trapezoidal Loads (plf)
Vert: 3=-55-to-14=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-48, 6-14=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Trapezoidal Loads (plf)
Vert: 3=-48-to-14=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-55, 6-14=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Trapezoidal Loads (plf)
Vert: 3=-55-to-14=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-48, 6-14=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Trapezoidal Loads (plf)
Vert: 3=-48-to-14=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-121

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MiTek
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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T47	Roof Special	1	1	I51165014
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:31 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-EHiqbhj9?Mav34d_w6K19GnDKD1NI5u0vD81XJzU37c

8-6-14	14-11-0	21-3-2	27-7-3
8-6-14	6-4-2	6-4-2	6-4-1

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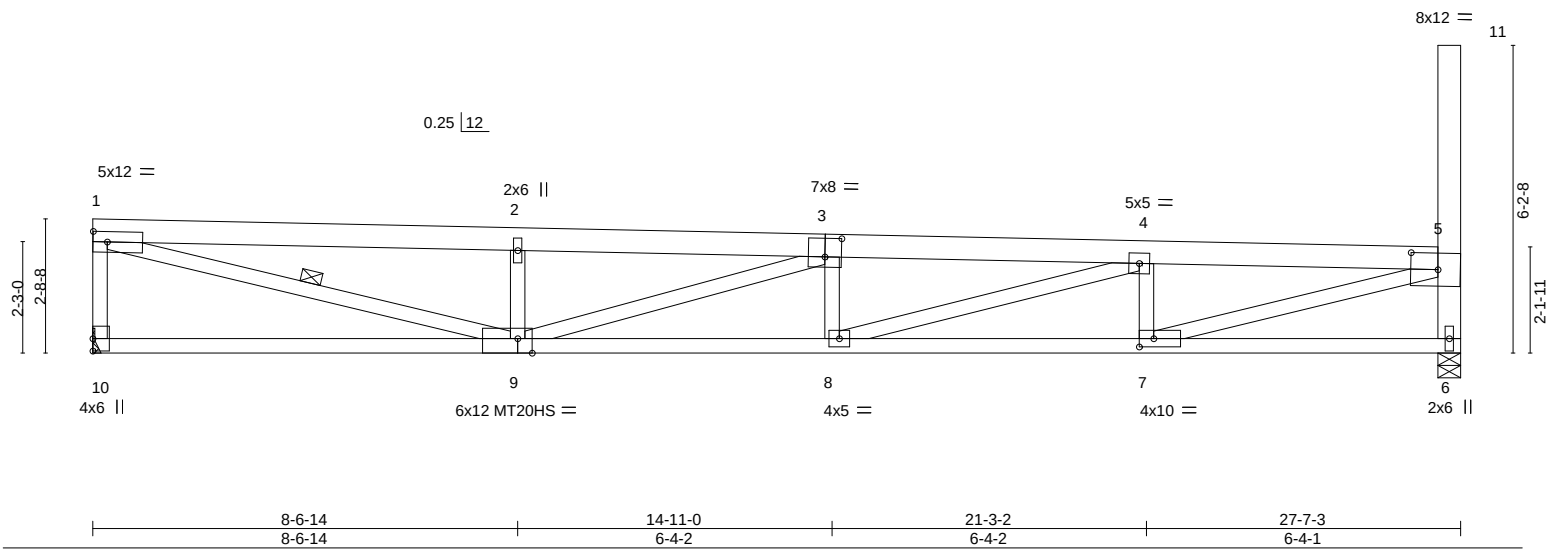

8-6-14	14-11-0	21-3-2	27-7-3
8-6-14	6-4-2	6-4-2	6-4-1

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [5:0-6-9,0-4-0], [7:0-3-8,0-2-0], [9:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.32	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.63	8-9	>520	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	-0.08	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 6-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-3-10 oc bracing.
WEBS	1 Row at midpt 1-9

REACTIONS. (size) 10=Mechanical, 6=0-5-8
Max Horz 6=-286(LC 11)
Max Uplift 10=-80(LC 16), 6=-92(LC 12)
Max Grav 10=1357(LC 22), 6=1565(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1270/594, 1-2=-3871/1582, 2-3=-3868/1571, 3-4=-4651/1965, 4-5=-3676/1704, 5-6=-1495/595
BOT CHORD	8-9=-2040/4656, 7-8=-1777/3666, 6-7=-642/708
WEBS	1-9=-1631/3878, 2-9=-622/407, 3-9=-835/432, 3-8=-176/251, 4-8=-647/1032, 4-7=-875/491, 5-7=-1462/3569

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-10=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 4=-70-to-5=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-60-to-5=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-39-to-5=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-66-to-5=-126

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-42-to-5=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-78-to-5=-158

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-55, 6-10=-20
Horz: 1-10=18, 1-5=5, 5-6=5, 5-11=38
Trapezoidal Loads (plf)
Vert: 4=-55-to-5=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-48, 6-10=-20
Horz: 1-10=-5, 1-5=12, 5-6=-18, 5-11=-38
Trapezoidal Loads (plf)
Vert: 4=-48-to-5=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-55, 6-10=-20
Horz: 1-10=14, 1-5=5, 5-6=3, 5-11=25
Trapezoidal Loads (plf)
Vert: 4=-55-to-5=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-48, 6-10=-20
Horz: 1-10=-3, 1-5=12, 5-6=-14, 5-11=25
Trapezoidal Loads (plf)
Vert: 4=-48-to-5=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 4=-70-to-5=-150

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Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T48	Roof Special	1	1	I51165015
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:32 2022 Page 1
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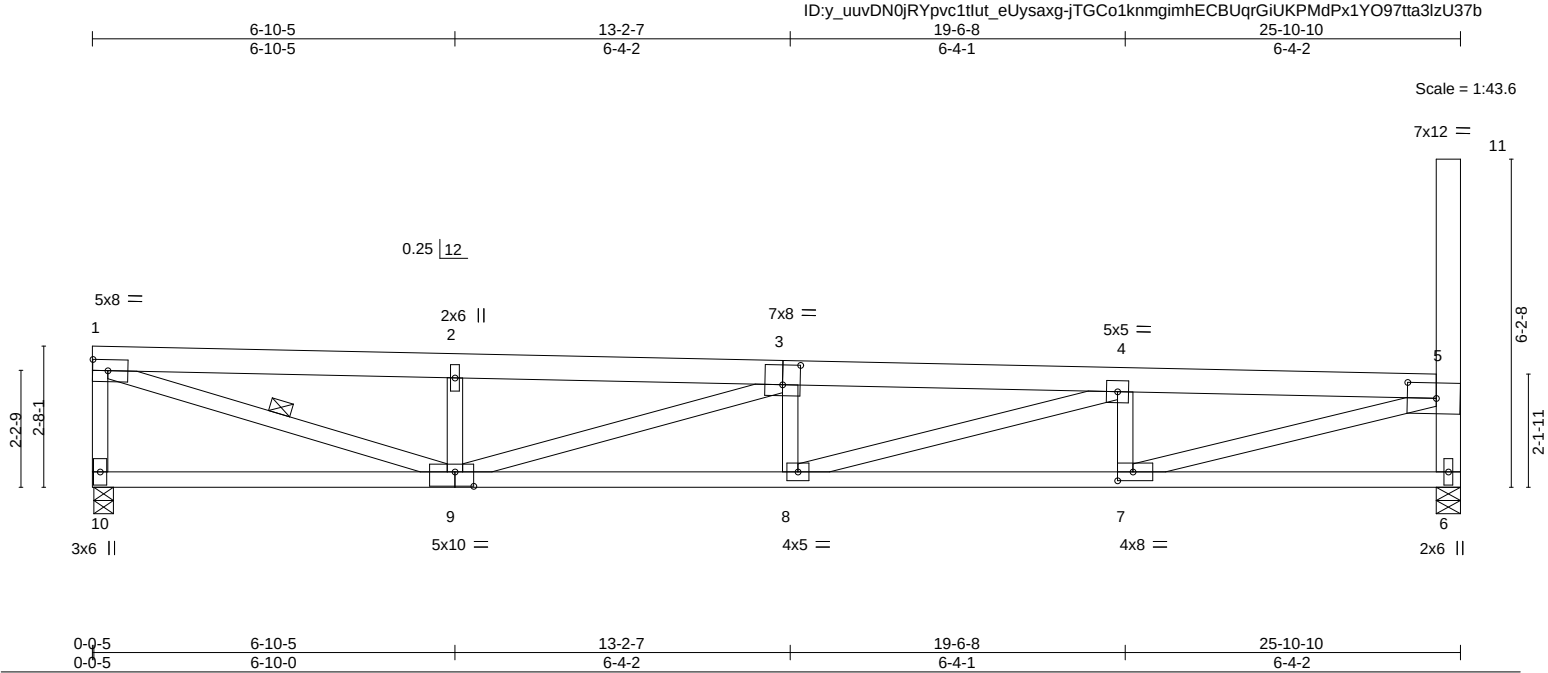

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [5:0-6-9,0-3-8], [7:0-3-8,0-2-0], [9:0-4-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.25	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.49	7-8	>621	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 6-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-1 oc bracing.
WEBS	1 Row at midpt 1-9

REACTIONS. (size) 10=0-4-7, 6=0-5-8
Max Horz 10=-285(LC 11)
Max Uplift 10=-77(LC 16), 6=-91(LC 12)
Max Grav 10=1270(LC 22), 6=1475(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1201/579, 1-2=-3066/1318, 2-3=-3065/1309, 3-4=-4130/1844, 4-5=-3392/1662, 5-6=-1405/593
BOT CHORD	9-10=-424/323, 8-9=-1669/4131, 7-8=-1364/3382, 6-7=-282/314
WEBS	1-9=-1392/3151, 2-9=-537/361, 3-9=-1127/580, 4-8=-589/812, 4-7=-795/481, 5-7=-1437/3281

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-70-to-5=-150

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-60-to-5=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-39, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-39-to-5=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-66, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-66-to-5=-126
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-42, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-42-to-5=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-78, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-78-to-5=-158
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-55, 6-10=-20
   Horz: 1-10=18, 1-5=5, 5-6=5, 5-11=38
   Trapezoidal Loads (plf)
   Vert: 4=-55-to-5=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-48, 6-10=-20
   Horz: 1-10=-5, 1-5=12, 5-6=-18, 5-11=-38
   Trapezoidal Loads (plf)
   Vert: 4=-48-to-5=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-55, 6-10=-20
   Horz: 1-10=14, 1-5=5, 5-6=3, 5-11=25
   Trapezoidal Loads (plf)
   Vert: 4=-55-to-5=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-48, 6-10=-20
   Horz: 1-10=-3, 1-5=12, 5-6=-14, 5-11=25
   Trapezoidal Loads (plf)
   Vert: 4=-48-to-5=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 4=-70-to-5=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T49	Roof Special	5	1	I51165016
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:33 2022 Page 1
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6-4-3 | 6-4-3 | 6-4-2 | 6-4-2

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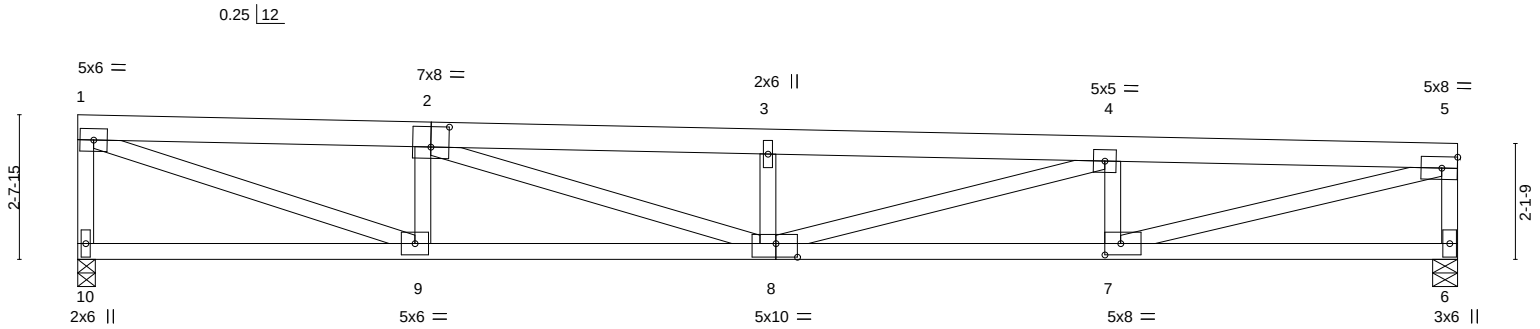

6-4-3 | 12-8-6 | 19-0-8 | 25-4-10
6-4-3 | 6-4-3 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [7:0-3-8,0-2-8], [8:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.21	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.44	7-8	>684	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 146 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.

REACTIONS. (size) 10=0-3-14, 6=0-5-8
Max Horz 10=-69(LC 13)
Max Uplift 10=-54(LC 16), 6=-57(LC 12)
Max Grav 10=1229(LC 22), 6=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1166/539, 1-2=-2760/1159, 2-3=-3940/1638, 3-4=-3905/1606, 4-5=-3125/1296, 5-6=-1161/534
BOT CHORD 8-9=-1197/2814, 7-8=-1310/3119
WEBS 1-9=-1199/2862, 2-9=-865/504, 2-8=-501/1182, 3-8=-488/321, 4-8=-331/815, 4-7=-739/445, 5-7=-1306/3126

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

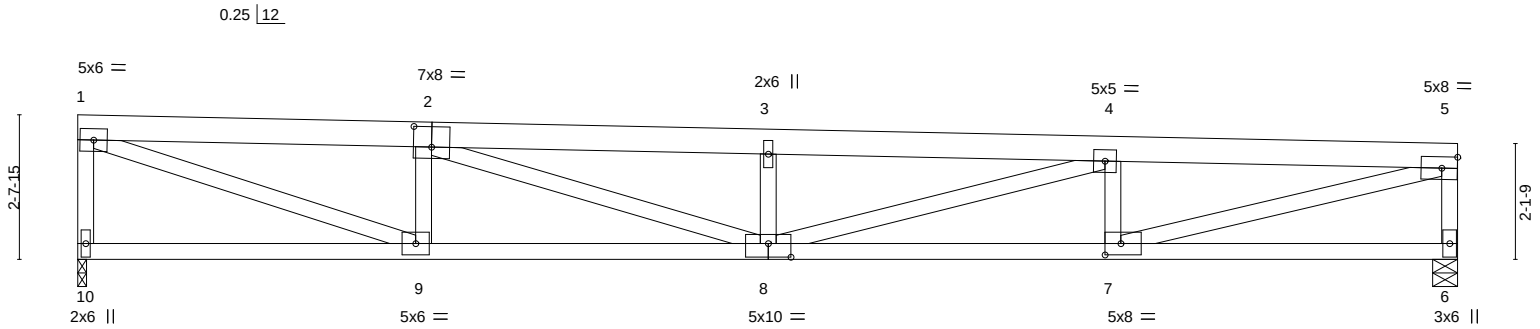
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T50	Roof Special	2	1	I51165017
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-bEVjeOnHpuCBArVyjfwCsKVBREl?zM0l2VroCWzU37X

6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:42.4



6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [7:0-3-8,0-2-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.21	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.44	7-8	>678	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 146 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.

REACTIONS. (size) 10=0-1-15, 6=0-5-8
Max Horz 10=-69(LC 11)
Max Uplift 10=-54(LC 16), 6=-57(LC 12)
Max Grav 10=1229(LC 22), 6=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1166/540, 1-2=-2764/1162, 2-3=-3921/1625, 3-4=-3921/1617, 4-5=-3128/1296, 5-6=-1162/534
BOT CHORD 8-9=-1199/2819, 7-8=-1309/3122
WEBS 1-9=-1202/2865, 2-9=-866/503, 2-8=-486/1160, 3-8=-486/320, 4-8=-342/827, 4-7=-738/446, 5-7=-1305/3130

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

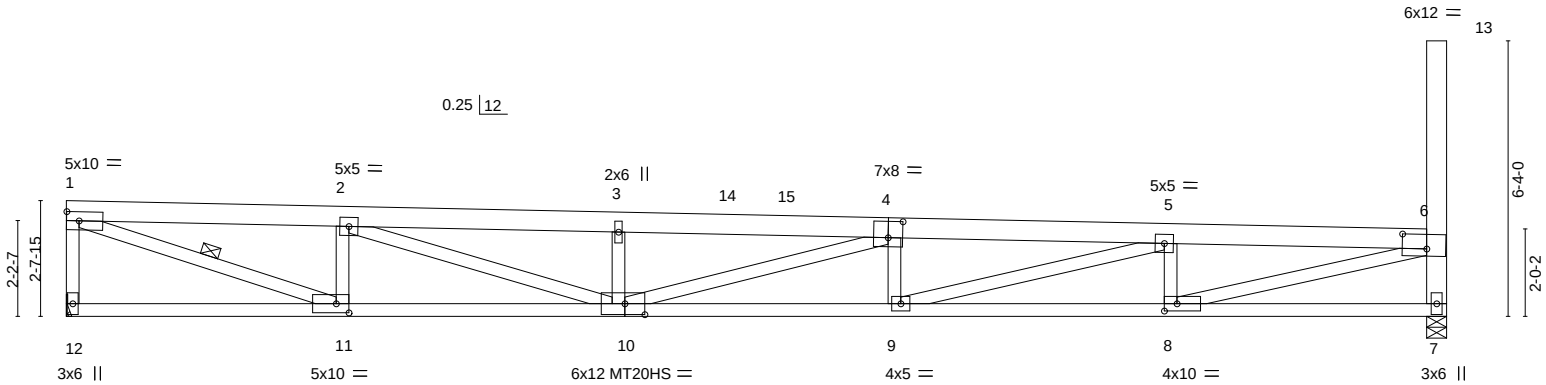
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T51	Roof Special	1	1	I51165018
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:37 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-3Q35skowaCK2n?48HNRRPX1Fee6cipkuH9bLlzzU37W

6-4-3	12-8-5	19-0-7	25-4-10	31-8-12
6-4-3	6-4-2	6-4-2	6-4-3	6-4-2

Scale = 1:53.0



6-4-3	12-8-5	19-0-7	25-4-10	31-8-12
6-4-3	6-4-2	6-4-2	6-4-3	6-4-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [4:0-4-0,0-4-8], [6:0-6-12,0-4-0], [8:0-3-8,0-2-0], [10:0-5-8,0-3-0], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.48	9-10	>791	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.95	9-10	>397	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	7-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	7-13: 2x6 SP No.1, 6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-6 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=-298(LC 11)
Max Uplift 12=-88(LC 16), 7=-98(LC 12)
Max Grav 12=1570(LC 22), 7=1783(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1505/586, 1-2=-3744/1324, 2-3=-6010/2169, 3-4=-5974/2142, 4-5=-6370/2381, 5-6=-4678/1929, 6-7=-1706/598
BOT CHORD	11-12=-401/328, 10-11=-1496/3738, 9-10=-2091/6389, 8-9=-1632/4668, 7-8=-337/393
WEBS	1-11=-1413/3902, 2-11=-1222/575, 2-10=-898/2387, 3-10=-493/280, 4-10=-441/274, 4-9=-347/299, 5-9=-829/1759, 5-8=-1060/499, 6-8=-1618/4534

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-67-to-6=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-79-to-6=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

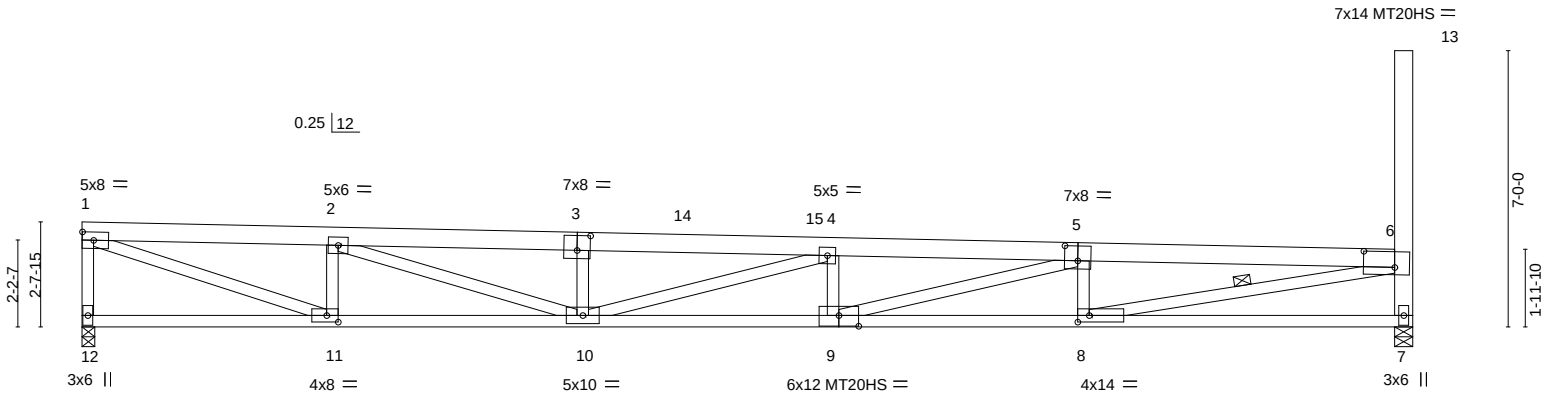
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T52	Roof Special	4	1	I51165019
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:38 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-XddU34pYLWSvP9fKq4ygxlaMZ1S1RFr2WpKvHPzU37V

6-4-2 | 12-8-4 | 19-0-6 | 25-4-8 | 33-8-10
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 8-4-2

Scale = 1:58.4



6-4-2 | 12-8-4 | 19-0-6 | 25-4-8 | 33-8-10
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 8-4-2

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [6:0-9-8,0-4-12], [8:0-3-8,0-2-0], [9:0-6-0,0-3-4], [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.64	9	>625	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-1.25	9-10	>321	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.13	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
5-6: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
7-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 12=0-3-14, 7=0-5-8
Max Horz 12=-334(LC 11)
Max Uplift 12=-95(LC 16), 7=-108(LC 12)
Max Grav 12=1686(LC 22), 7=1962(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1619/592, 1-2=-4074/1356, 2-3=-6679/2263, 3-4=-6643/2237, 4-5=-7493/2618, 5-6=-6256/2339, 6-7=-1860/617
BOT CHORD 11-12=-442/362, 10-11=-1539/4068, 9-10=-2279/7486, 8-9=-2041/6322, 7-8=-492/630
WEBS 1-11=-1446/4253, 2-11=-1347/585, 2-10=-966/2750, 3-10=-506/274, 4-10=-886/405, 4-9=-222/253, 5-9=-672/1265, 5-8=-1001/484, 6-8=-1980/5832

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-14, Corner(3) 18-5-14 to 33-5-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=108.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 5,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-67-to-6=-127

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-79-to-6=-159

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T53G	Roof Special Girder	1	1	I51165020
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:39 2022 Page 1
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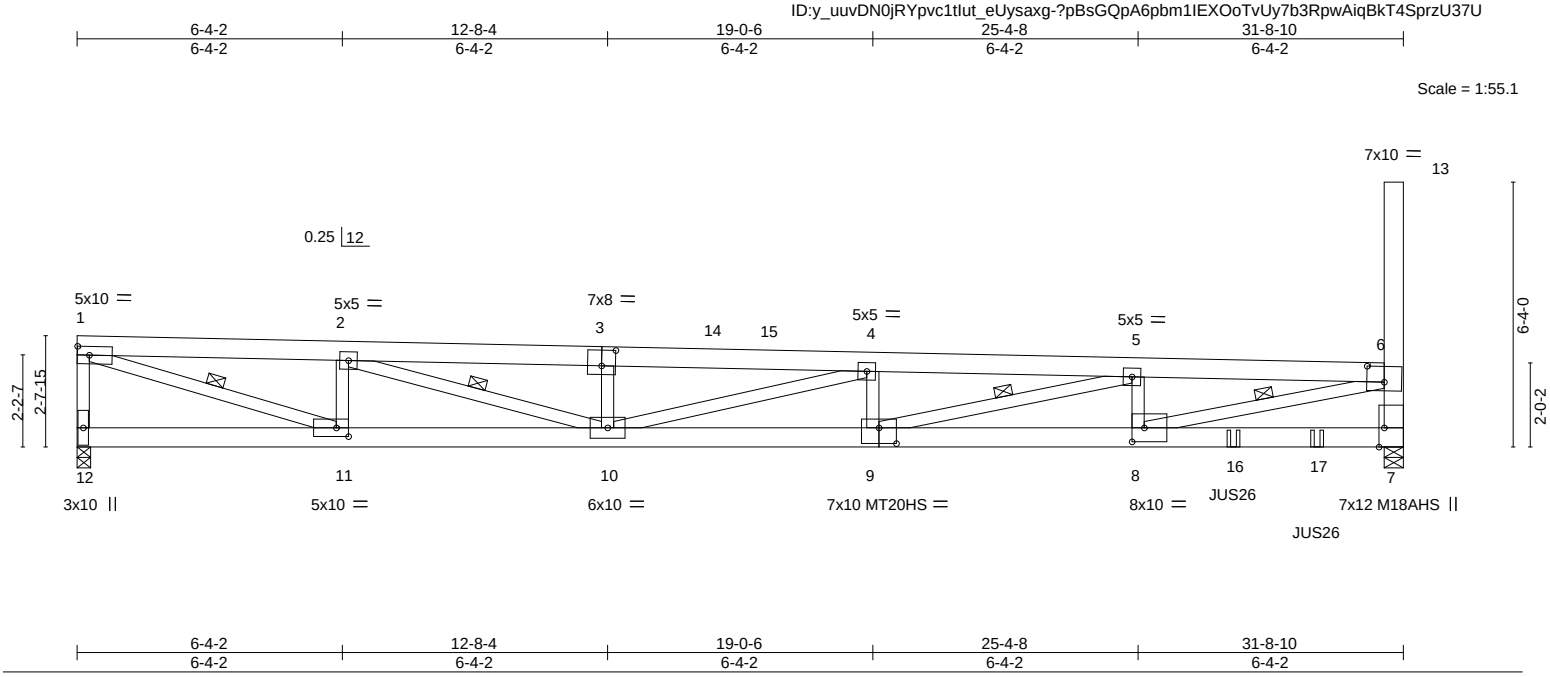

Plate Offsets (X,Y)-- [1:0-3-7,0-2-8], [3:0-4-0,0-4-8], [6:0-5-0,0-4-8], [7:0-5-8,Edge], [8:0-3-8,0-4-0], [9:0-5-0,0-4-8], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.58	9-10	>648	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.91	9-10	>415	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.07	7	n/a	n/a	M18AHS	186/179
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1, 6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-13 oc bracing.
WEBS	1 Row at midpt 1-11, 2-10, 5-9, 6-8

REACTIONS. (size) 12=0-3-14, 7=0-5-8
Max Horz 12=-295(LC 39)
Max Uplift 12=-247(LC 16), 7=-1707(LC 12)
Max Grav 12=1579(LC 22), 7=2637(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1493/732, 1-2=-3884/1832, 2-3=-6207/3237, 3-4=-6172/3211, 4-5=-6718/4067, 5-6=-5770/4578, 6-7=-1759/1211
BOT CHORD	11-12=-417/316, 10-11=-1998/3878, 9-10=-3765/6711, 8-9=-4282/5640, 7-8=-988/1021
WEBS	1-11=-1920/4009, 2-11=-1227/742, 2-10=-1486/2443, 3-10=-488/296, 4-10=-965/899, 4-9=-378/431, 5-9=-1924/2414, 5-8=-1068/880, 6-8=-3740/5177

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-14, Corner(3) 16-5-14 to 31-5-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=247, 7=1707.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 27-7-14 from the left end to 29-7-14 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-55(F) 17=-55(F)
   Trapezoidal Loads (plf)
   Vert: 5=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-46(F) 17=-46(F)
   Trapezoidal Loads (plf)
   Vert: 5=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-46(F) 17=-46(F)
   Trapezoidal Loads (plf)
   Vert: 5=-39-to-6=-99
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-46(F) 17=-46(F)
   Trapezoidal Loads (plf)
   Vert: 5=-67-to-6=-127
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-55(F) 17=-55(F)
   Trapezoidal Loads (plf)
   Vert: 5=-42-to-6=-122
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-55(F) 17=-55(F)
   Trapezoidal Loads (plf)
   Vert: 5=-79-to-6=-159
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-55, 7-12=-20
   Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
   Concentrated Loads (lb)
   Vert: 16=643(F) 17=644(F)
   Trapezoidal Loads (plf)
   Vert: 5=-55-to-6=-115
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-48, 7-12=-20
   Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
   Concentrated Loads (lb)
   Vert: 16=643(F) 17=644(F)
   Trapezoidal Loads (plf)
   Vert: 5=-48-to-6=-108
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-55, 7-12=-20
   Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
   Concentrated Loads (lb)
   Vert: 16=643(F) 17=644(F)
   Trapezoidal Loads (plf)
   Vert: 5=-55-to-6=-115
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-48, 7-12=-20
   Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
   Concentrated Loads (lb)
   Vert: 16=643(F) 17=644(F)
   Trapezoidal Loads (plf)
   Vert: 5=-48-to-6=-108
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA I51165020
PRYOR-B1RA	T53G	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-55(F) 17=-55(F)
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5, 6-13=38
Concentrated Loads (lb)
Vert: 16=-693(F) 17=-694(F)
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18, 6-13=-38
Concentrated Loads (lb)
Vert: 16=-693(F) 17=-694(F)
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3, 6-13=25
Concentrated Loads (lb)
Vert: 16=-693(F) 17=-694(F)
Trapezoidal Loads (plf)
Vert: 5=-55-to-6=-115

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14, 6-13=25
Concentrated Loads (lb)
Vert: 16=-693(F) 17=-694(F)
Trapezoidal Loads (plf)
Vert: 5=-48-to-6=-108

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T54GE	Roof Special Supported Gable	1	1	I51165021
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:41 2022 Page 1
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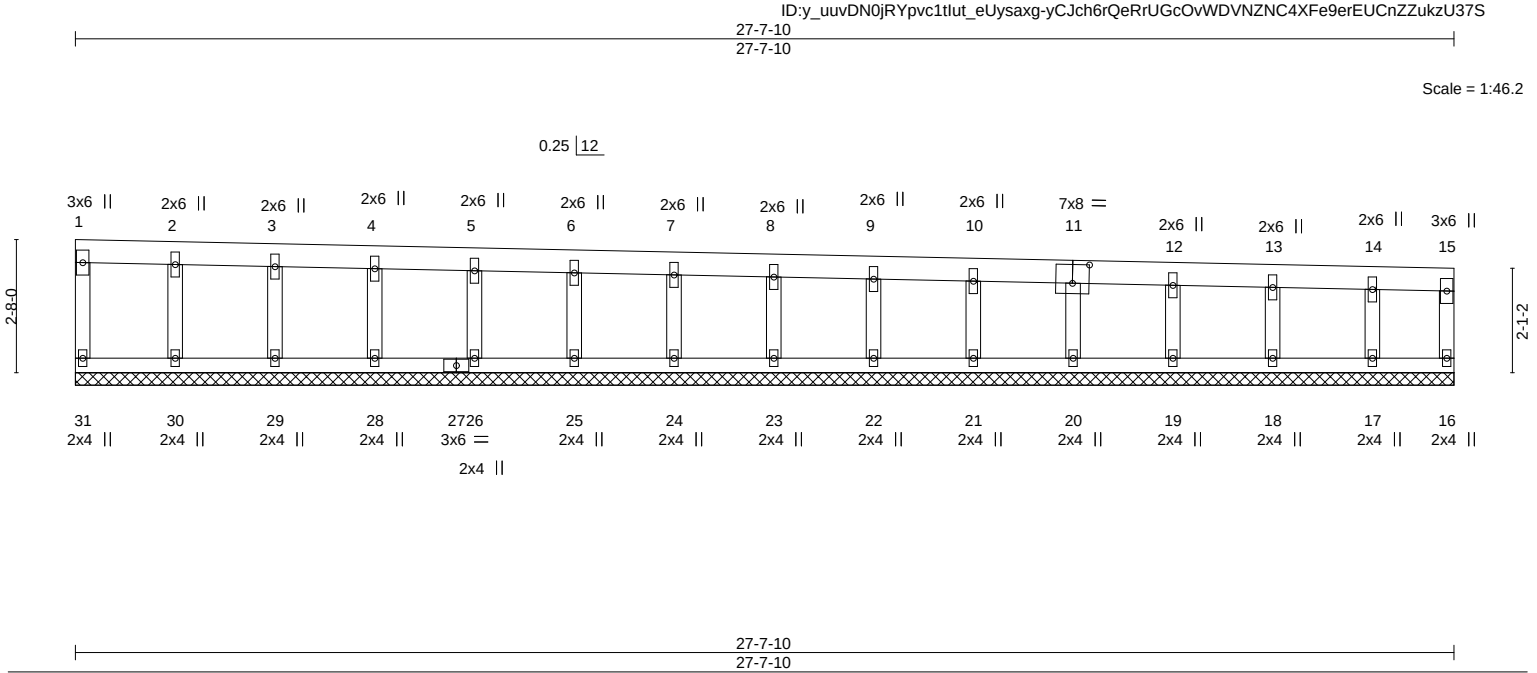

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 142 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-7-10.
(lb) - Max Horz 31=-70(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 31, 16, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 31, 16, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 16, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T55	Roof Special	1	1	I51165022
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:42 2022 Page 1
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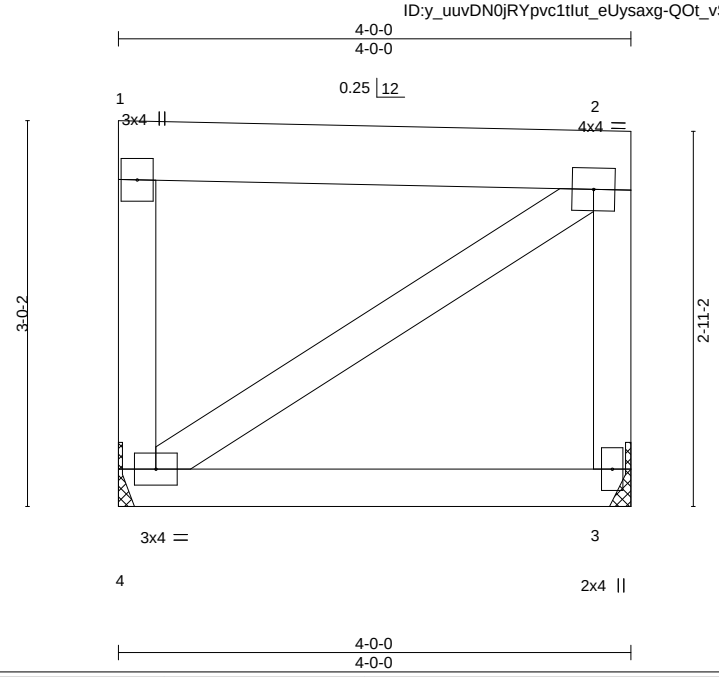

Scale = 1:18.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-80(LC 11)
Max Uplift 4=-17(LC 11), 3=-34(LC 12)
Max Grav 4=178(LC 22), 3=178(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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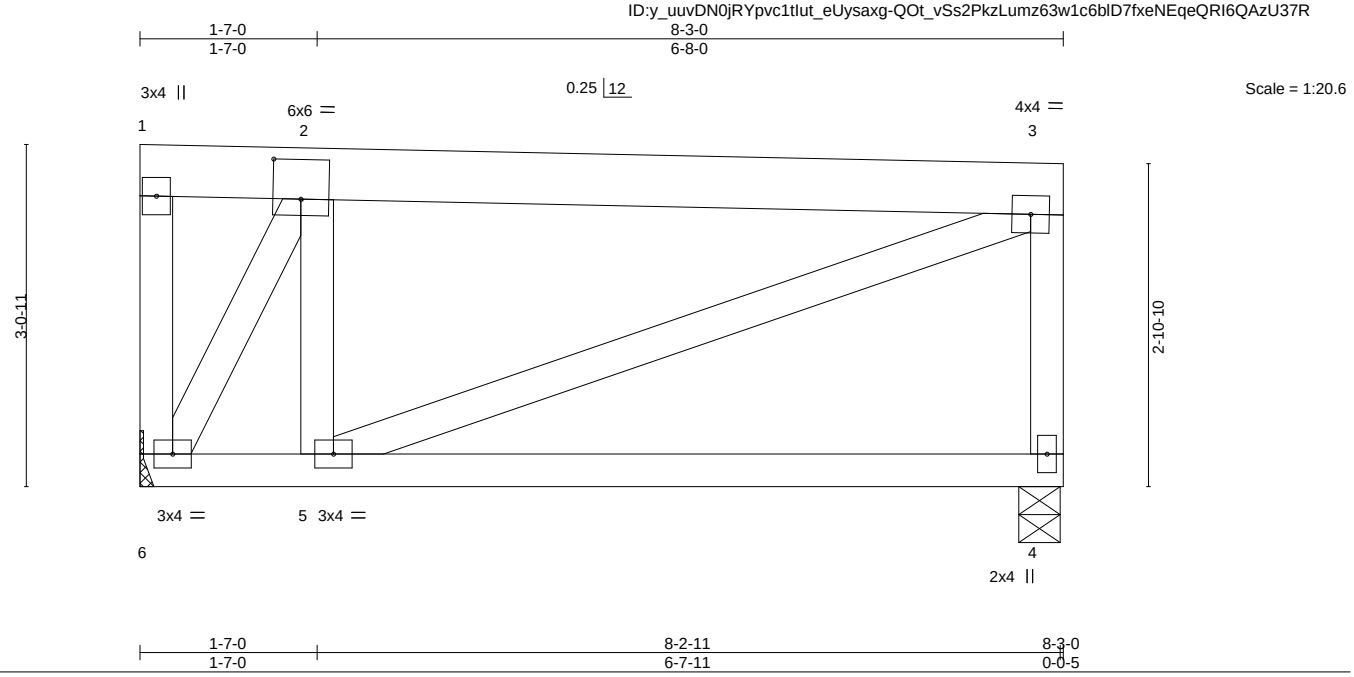
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T56	Roof Special	1	1	I51165023
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:42 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-QOt_vSs2PkzLumz63w1c6blD7fxeNEqeQRI6QAzU37R



Scale = 1:20.6

Plate Offsets (X,Y)-- [2:0-3-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.01	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 55 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=0-4-7
Max Horz 6=-81(LC 13)
Max Uplift 6=-9(LC 16), 4=-29(LC 12)
Max Grav 6=385(LC 22), 4=385(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-317/270, 3-4=-332/347
BOT CHORD 5-6=-326/314
WEBS 2-6=-658/541, 3-5=-316/336

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T57	Roof Special	1	1	I51165024
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:43 2022 Page 1
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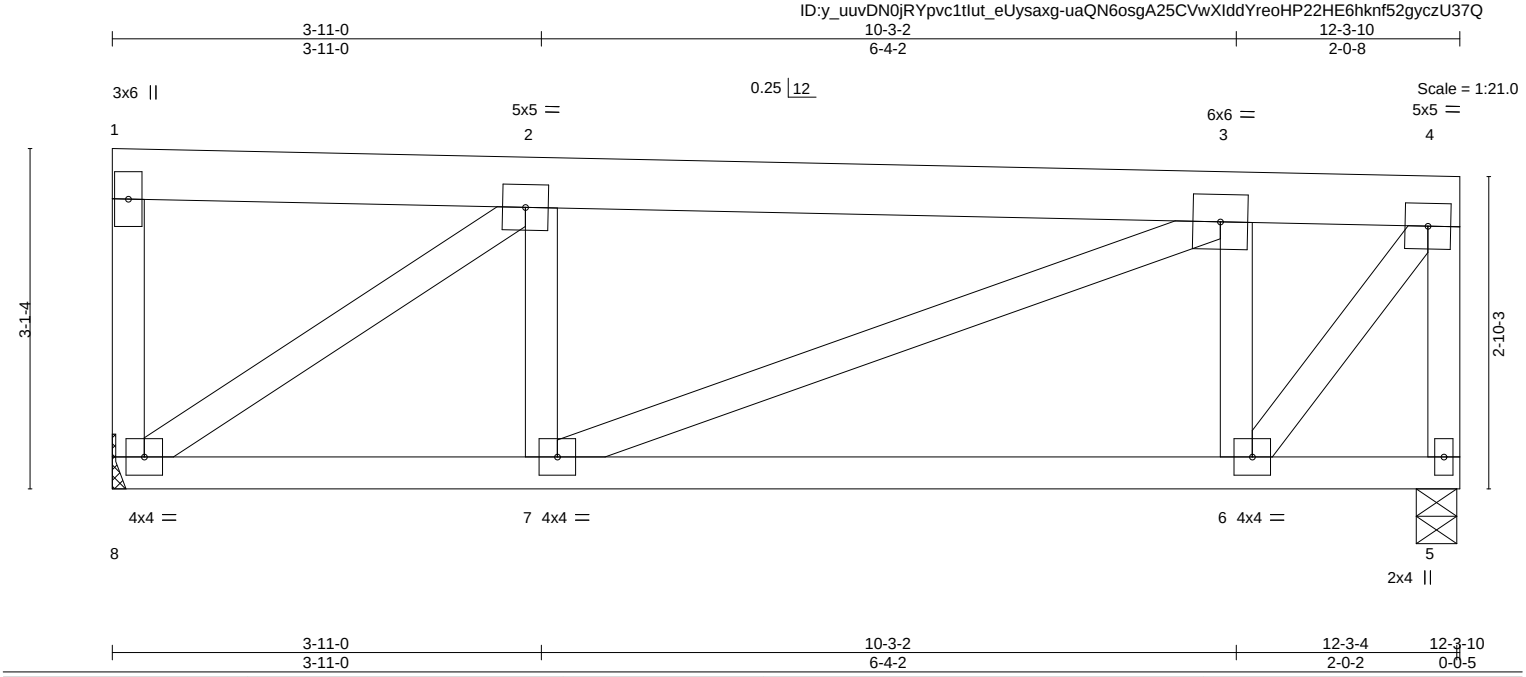

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.02	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 80 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-5 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-4-7
Max Horz 8=-83(LC 11)
Max Uplift 8=-21(LC 16), 5=-34(LC 12)
Max Grav 8=581(LC 22), 5=581(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-665/445, 3-4=-466/329, 4-5=-590/377
BOT CHORD 7-8=-491/660, 6-7=-337/467
WEBS 2-8=-807/554, 3-6=-501/473, 4-6=-509/769

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T58	Roof Special	1	1	I51165025
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:44 2022 Page 1
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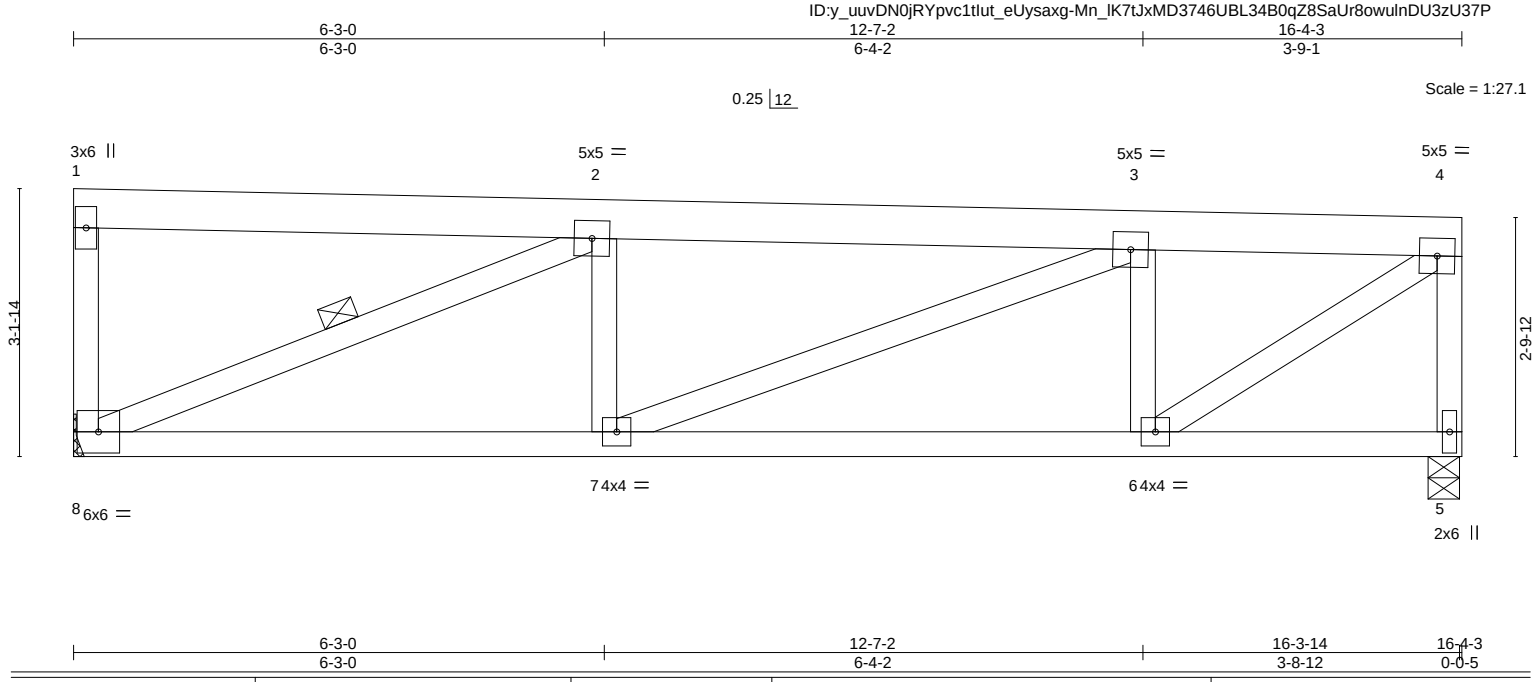

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.09	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 100 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing.
WEBS 1 Row at midpt 2-8

REACTIONS. (size) 8=Mechanical, 5=0-4-7
Max Horz 8=-84(LC 13)
Max Uplift 8=-32(LC 16), 5=-40(LC 12)
Max Grav 8=777(LC 22), 5=777(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1241/701, 3-4=-946/545, 4-5=-753/450
BOT CHORD 7-8=-741/1236, 6-7=-561/945
WEBS 2-8=-1347/784, 3-7=-194/313, 3-6=-532/426, 4-6=-645/1141

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T59	Roof Special	1	1	I51165026
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:44 2022 Page 1
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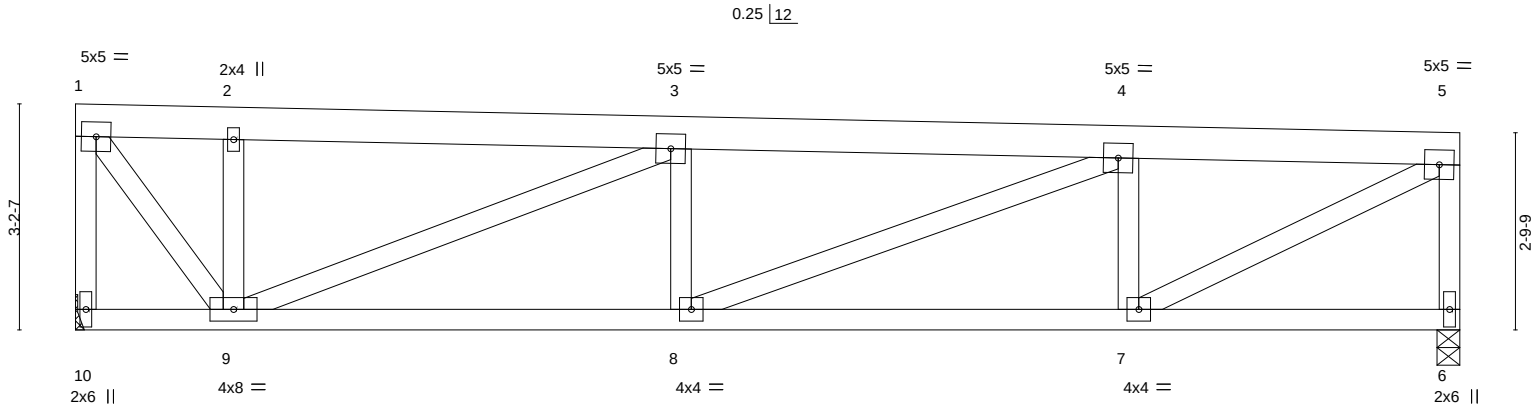
2-2-14	6-4-2	6-4-2	4-8-6

Scale = 1:32.7



2-2-14	8-7-0	14-11-2	19-7-8
2-2-14	6-4-2	6-4-2	4-8-6

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.14	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 123 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-14 oc bracing.

REACTIONS. (size) 10=Mechanical, 6=0-3-14
Max Horz 10=-86(LC 13)
Max Uplift 10=-40(LC 16), 6=-47(LC 12)
Max Grav 10=936(LC 22), 6=936(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-940/476, 1-2=-725/402, 2-3=-726/395, 3-4=-1784/898, 4-5=-1387/707, 5-6=-901/489
BOT CHORD	8-9=-934/1779, 7-8=-723/1385
WEBS	1-9=-615/1211, 2-9=-422/323, 3-9=-1147/604, 4-8=-227/424, 4-7=-619/444, 5-7=-792/1569

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T60	Roof Special	1	1	I51165027
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:47 2022 Page 1
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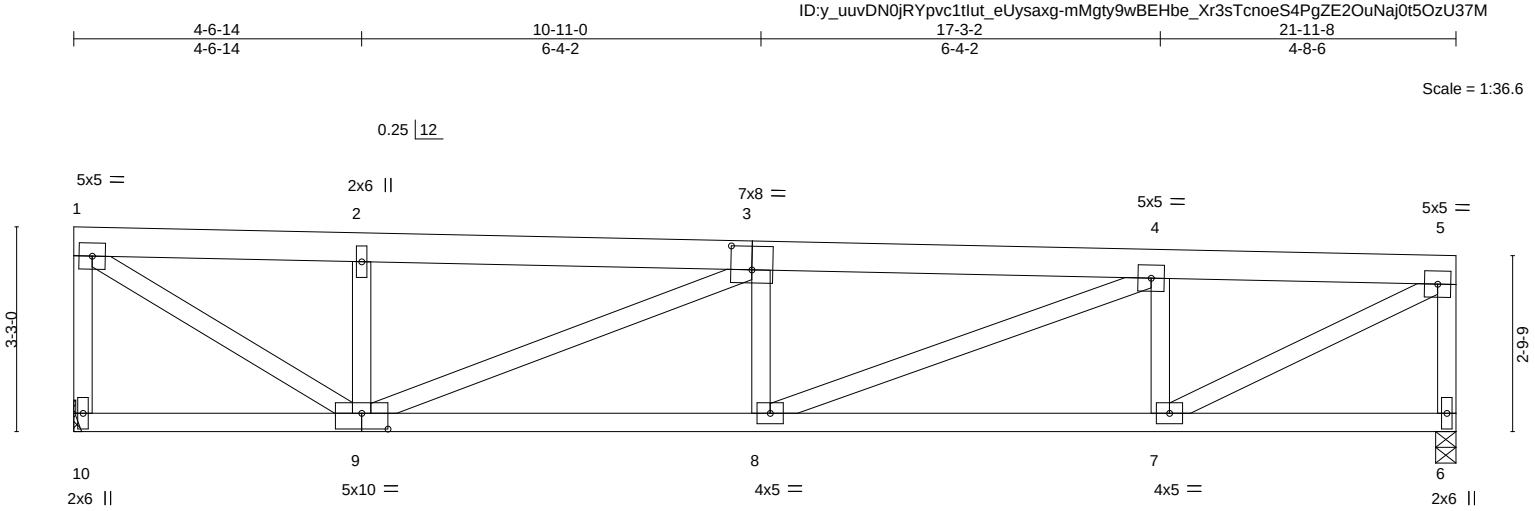

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.08	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.18	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 134 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.

REACTIONS. (size) 10=Mechanical, 6=0-3-14
Max Horz 10=-87(LC 13)
Max Uplift 10=-45(LC 16), 6=-51(LC 12)
Max Grav 10=1053(LC 22), 6=1053(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1015/512, 1-2=-1422/690, 2-3=-1423/682, 3-4=-2242/1035, 4-5=-1597/755, 5-6=-1012/506
BOT CHORD 8-9=-1081/2243, 7-8=-768/1594
WEBS 1-9=-791/1669, 2-9=-443/327, 3-9=-898/448, 4-8=-326/692, 4-7=-723/466, 5-7=-834/1776

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

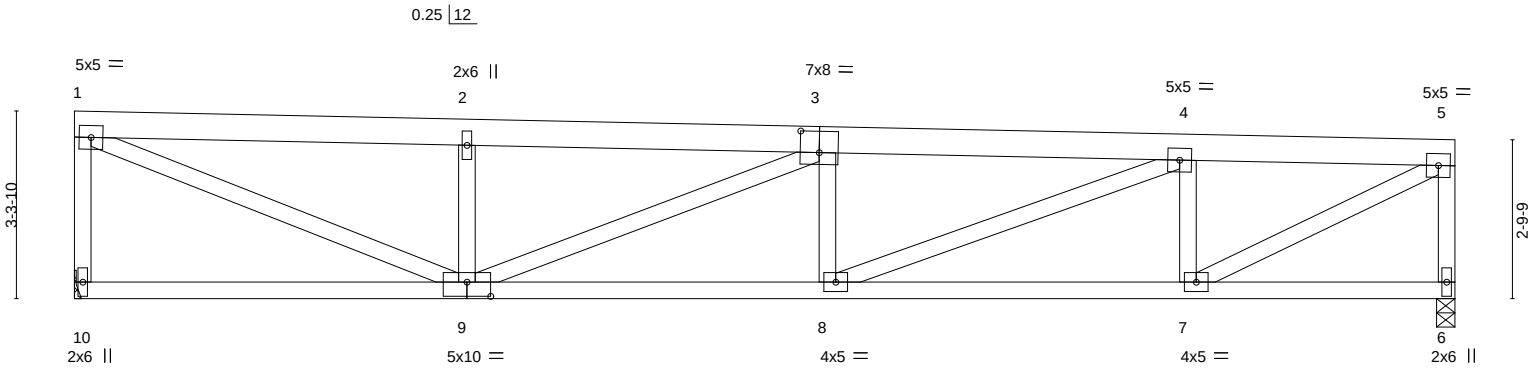
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T61	Roof Special	1	1	I51165028
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:48 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-FYEF9Vwp?ajVchQFQB70Ls?E63tknolWpMlReqzU37L

6-10-14	13-3-0	19-7-2	24-3-8
6-10-14	6-4-2	6-4-2	4-8-6

Scale = 1:40.5



6-10-14	13-3-0	19-7-2	24-3-8
6-10-14	6-4-2	6-4-2	4-8-6

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.12	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.24	8-9	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-14 oc bracing.

REACTIONS. (size) 10=Mechanical, 6=0-3-14
Max Horz 10=-89(LC 11)
Max Uplift 10=-51(LC 16), 6=-56(LC 12)
Max Grav 10=1173(LC 22), 6=1173(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1107/542, 1-2=-2171/959, 2-3=-2170/949, 3-4=-2709/1156, 4-5=-1814/795, 5-6=-1131/521
BOT CHORD	8-9=-1203/2715, 7-8=-805/1810
WEBS	1-9=-1019/2308, 2-9=-545/382, 3-9=-598/286, 4-8=-415/961, 4-7=-837/487, 5-7=-876/2020

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

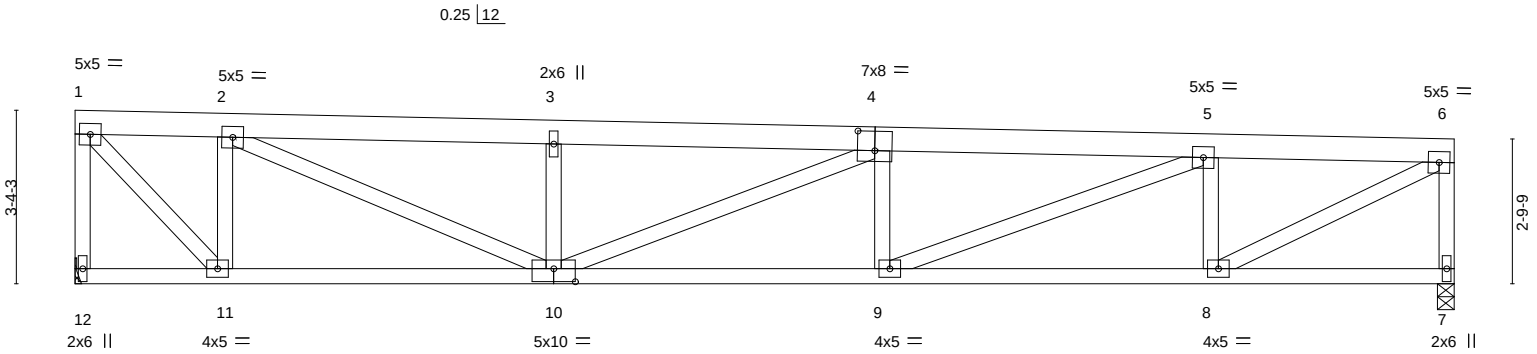
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T62	Roof Special	1	1	I51165029
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-jkoeNrxRmurLEr?S_ufFu3XPZTAxWKzf10V_AGzU37K

2-10-12	9-2-14	15-7-0	21-11-2	26-7-8
2-10-12	6-4-2	6-4-2	6-4-2	4-8-6

Scale = 1:44.5



2-10-12	9-2-14	15-7-0	21-11-2	26-7-8
2-10-12	6-4-2	6-4-2	6-4-2	4-8-6

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.15	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.31	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 164 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-3-14
Max Horz 12=-90(LC 11)
Max Uplift 12=-56(LC 16), 7=-61(LC 12)
Max Grav 12=1399(LC 22), 7=1297(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1384/522, 1-2=-1214/511, 2-3=-2888/1163, 3-4=-2888/1154, 4-5=-3209/1264, 5-6=-2034/825, 6-7=-1255/533
BOT CHORD 10-11=-522/1209, 9-10=-1312/3221, 8-9=-833/2031
WEBS 1-11=-696/1764, 2-11=-1192/579, 2-10=-754/1842, 3-10=-494/325, 4-10=-368/181, 4-9=-340/262, 5-9=-500/1261, 5-8=-953/502, 6-8=-909/2267

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=18, 1-6=5, 6-7=5
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-5, 1-6=12, 6-7=-18
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=14, 1-6=5, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-3, 1-6=12, 6-7=-14
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

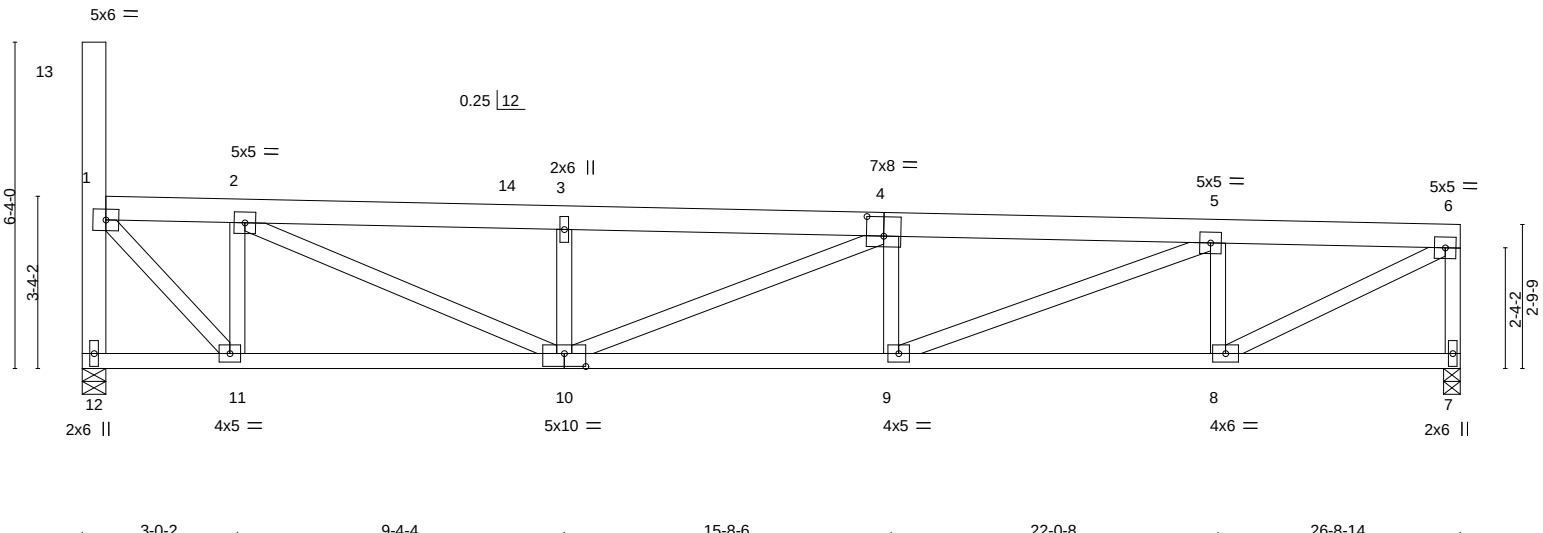
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T63	Roof Special	4	1	I51165030
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:50 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-BxL0aBy3WCzCr?aeXcAUQH4ZktVjFmwpGgFXiizU37J

3-0-2	9-4-4	15-8-6	22-0-8	26-8-14
3-0-2	6-4-2	6-4-2	6-4-2	4-8-6

Scale = 1:44.7



3-0-2	9-4-4	15-8-6	22-0-8	26-8-14
3-0-2	6-4-2	6-4-2	6-4-2	4-8-6

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.16	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.32	9-10	>976	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 174 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-252(LC 13)
Max Uplift 12=-38(LC 16), 7=-89(LC 12)
Max Grav 12=1574(LC 22), 7=1326(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1556/576, 1-2=-1391/760, 2-3=-3080/1348, 3-4=-3079/1340, 4-5=-3326/1385, 5-6=-2088/844, 6-7=-1284/562
BOT CHORD	11-12=-309/499, 10-11=-771/1385, 9-10=-1435/3339, 8-9=-886/2085
WEBS	1-11=-676/1983, 2-11=-1349/564, 2-10=-854/1858, 3-10=-533/326, 4-10=-341/281, 4-9=-364/290, 5-9=-574/1329, 5-8=-982/529, 6-8=-968/2328

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-118-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-97-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-124-to-14=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-14=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-55, 7-12=-20
      Horz: 1-12=18, 1-13=38, 1-6=5, 6-7=5
   Trapezoidal Loads (plf)
      Vert: 1=-114-to-14=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-48, 7-12=-20
      Horz: 1-12=-5, 1-13=-38, 1-6=12, 6-7=-18
   Trapezoidal Loads (plf)
      Vert: 1=-106-to-14=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-55, 7-12=-20
      Horz: 1-12=14, 1-13=-25, 1-6=5, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-114-to-14=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 6-14=-48, 7-12=-20
      Horz: 1-12=-3, 1-13=-25, 1-6=12, 6-7=-14
   Trapezoidal Loads (plf)
      Vert: 1=-106-to-14=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 6-14=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-14=-70

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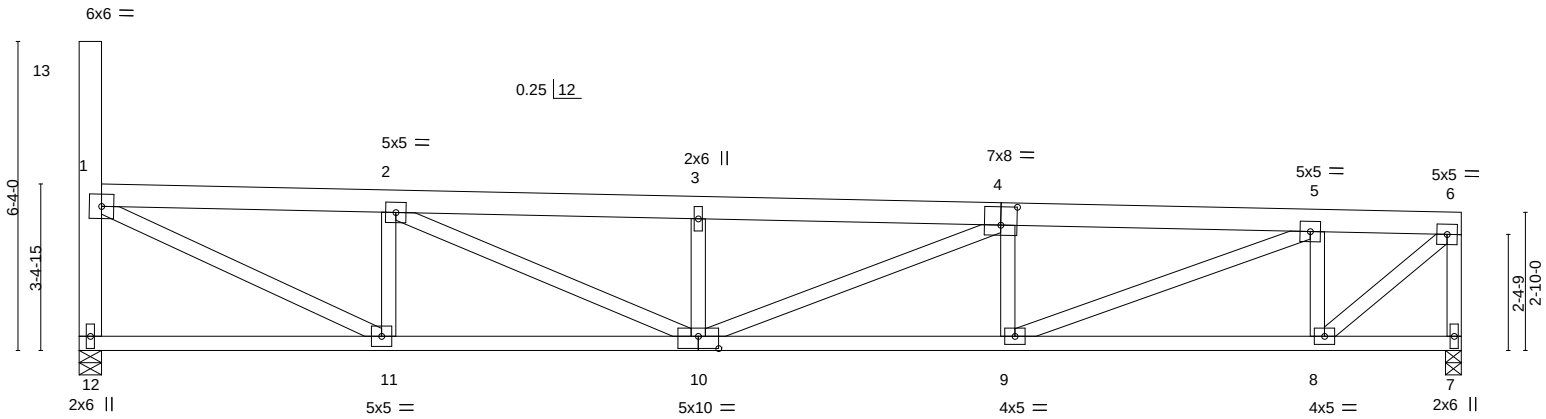
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T65	Roof Special	3	1	I51165031
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-f7vOoXziHV53T99q5JhjzUdkHHrp_BwyVK_5E9zU37I

6-4-2	12-8-4	19-0-6	25-4-8	28-3-14
6-4-2	6-4-2	6-4-2	6-4-2	2-11-6

Scale = 1:47.2



6-4-2	12-8-4	19-0-6	25-4-8	28-3-14
6-4-2	6-4-2	6-4-2	6-4-2	2-11-6

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.37	9-10	>899	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 182 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-15 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-250(LC 11)
Max Uplift 12=-42(LC 16), 7=-90(LC 12)
Max Grav 12=1603(LC 22), 7=1394(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1541/600, 1-2=-2506/1132, 2-3=-3603/1493, 3-4=-3603/1485, 4-5=-3333/1318, 5-6=-1502/572, 6-7=-1379/550
BOT CHORD 11-12=-324/481, 10-11=-1145/2498, 9-10=-1374/3359, 8-9=-616/1501
WEBS 1-11=-1022/2680, 2-11=-1071/536, 2-10=-597/1210, 3-10=-478/307, 4-10=-151/259, 4-9=-601/375, 5-9=-795/1965, 5-8=-1200/583, 6-8=-783/1979

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-55, 7-12=-20
      Horz: 1-12=18, 1-13=38, 1-6=5, 6-7=5
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-48, 7-12=-20
      Horz: 1-12=-5, 1-13=-38, 1-6=12, 6-7=-18
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-55, 7-12=-20
      Horz: 1-12=14, 1-13=-25, 1-6=5, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-48, 7-12=-20
      Horz: 1-12=-3, 1-13=-25, 1-6=12, 6-7=-14
   Trapezoidal Loads (plf)
      Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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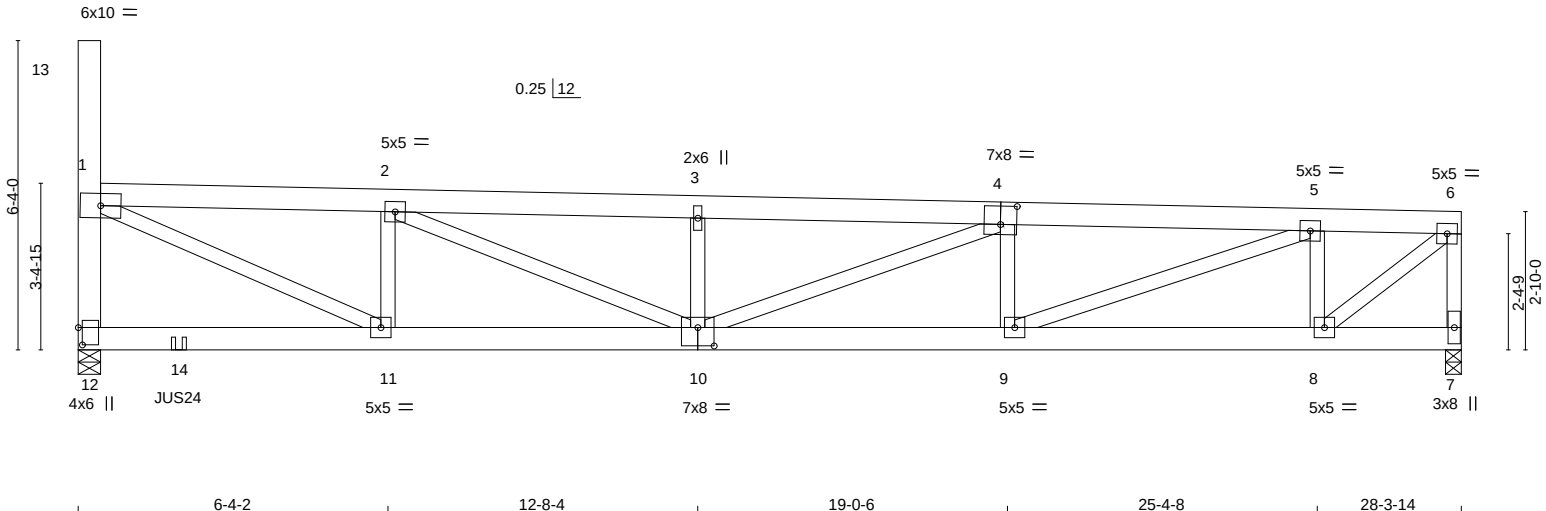
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T65G	Roof Special Girder	1	1	I51165032
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:52 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-7JTm?tzK2pDw5lj1f0CzVi9v9hH7jcT6k_kenbzU37H

6-4-2 | 12-8-4 | 19-0-6 | 25-4-8 | 28-3-14
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 2-11-6

Scale = 1:47.2



6-4-2 | 12-8-4 | 19-0-6 | 25-4-8 | 28-3-14
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 2-11-6

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [12:0-4-4,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.17	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.33	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 204 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-248(LC 11)
Max Uplift 12=-476(LC 16), 7=-120(LC 12)
Max Grav 12=1685(LC 22), 7=1400(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1544/700, 1-2=-2619/1432, 2-3=-3719/1686, 3-4=-3720/1678, 4-5=-3444/1461, 5-6=-1568/630, 6-7=-1384/579
BOT CHORD 11-12=-403/545, 10-11=-1443/2611, 9-10=-1518/3471, 8-9=-673/1566
WEBS 1-11=-1274/2754, 2-11=-1063/596, 2-10=-730/1207, 3-10=-468/310, 4-10=-202/291, 4-9=-607/395, 5-9=-883/2005, 5-8=-1195/609, 6-8=-842/2027

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=476, 7=120.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-87(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-72(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-72(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-66, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-72(B)
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-87(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-87(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-55, 7-12=-20
   Horz: 1-12=18, 1-13=38, 1-6=5, 6-7=5
   Concentrated Loads (lb)
   Vert: 14=315(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-48, 7-12=-20
   Horz: 1-12=-5, 1-13=-38, 1-6=12, 6-7=-18
   Concentrated Loads (lb)
   Vert: 14=315(B)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-55, 7-12=-20
   Horz: 1-12=14, 1-13=-25, 1-6=5, 6-7=3
   Concentrated Loads (lb)
   Vert: 14=315(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-48, 7-12=-20
   Horz: 1-12=-3, 1-13=-25, 1-6=12, 6-7=-14
   Concentrated Loads (lb)
   Vert: 14=315(B)
   Trapezoidal Loads (plf)
   Vert: 1=-108-to-2=-48
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 14=-87(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=18, 1-13=38, 1-6=5, 6-7=5
Concentrated Loads (lb)
Vert: 14=-383(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-5, 1-13=-38, 1-6=12, 6-7=-18
Concentrated Loads (lb)
Vert: 14=-383(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-55, 7-12=-20
Horz: 1-12=14, 1-13=-25, 1-6=5, 6-7=3
Concentrated Loads (lb)
Vert: 14=-383(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-2=-55

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-12=-20
Horz: 1-12=-3, 1-13=-25, 1-6=12, 6-7=-14
Concentrated Loads (lb)
Vert: 14=-383(B)
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

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Chesterfield, MO 63017

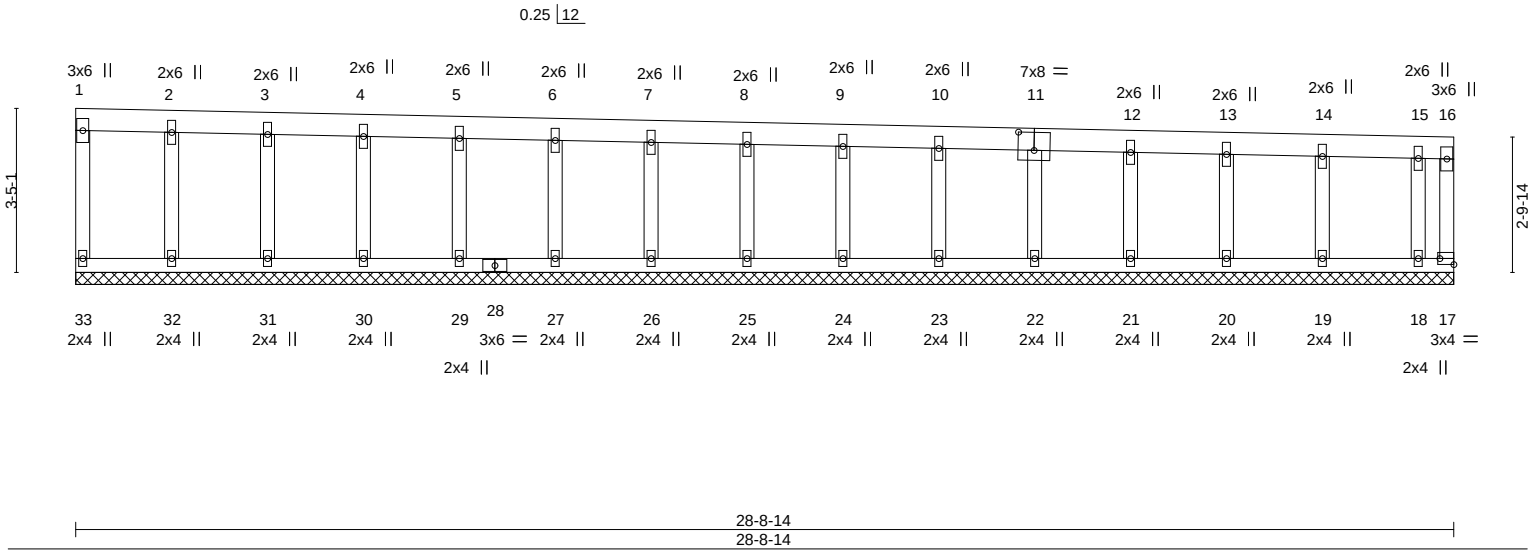
Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T66GE	Roof Special Supported Gable	1	1	I51165033
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:54 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-3ibXQY?aaQUeKctPmRERb7EGRU2hBjQPBIDlrUzU37F

28-8-14
28-8-14

Scale: 1/4"=1'



28-8-14
28-8-14

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [17:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-8-14.
(lb) - Max Horz 33=-92(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 33, 17, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19 except 18=-120(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 33, 17, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 17, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19 except (jt=lb) 18=120.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T67	Roof Special	1	1	I51165034
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:55 2022 Page 1
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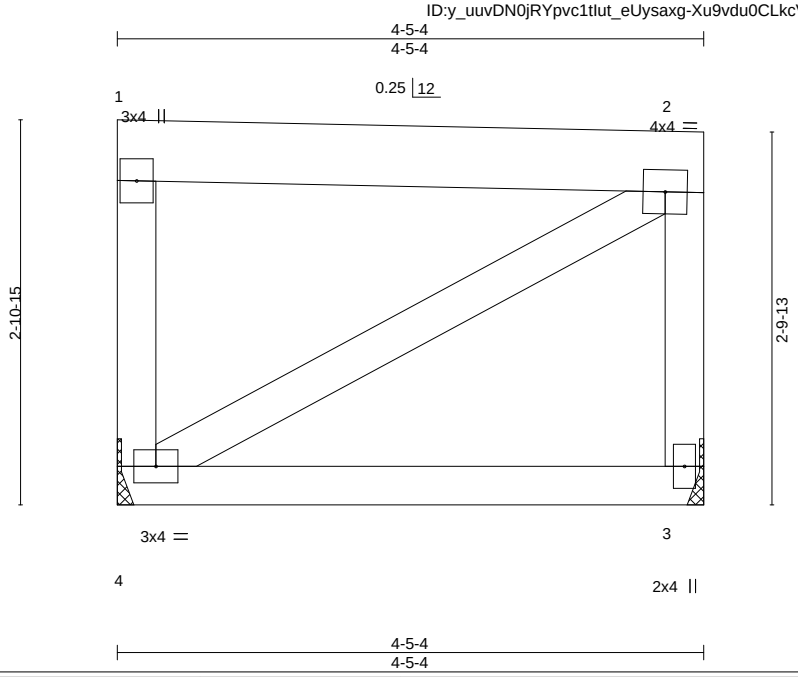

Scale = 1:17.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-77(LC 13)
Max Uplift 4=-11(LC 11), 3=-31(LC 12)
Max Grav 4=199(LC 22), 3=199(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T68	Roof Special	4	1	I51165035
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:55 2022 Page 1
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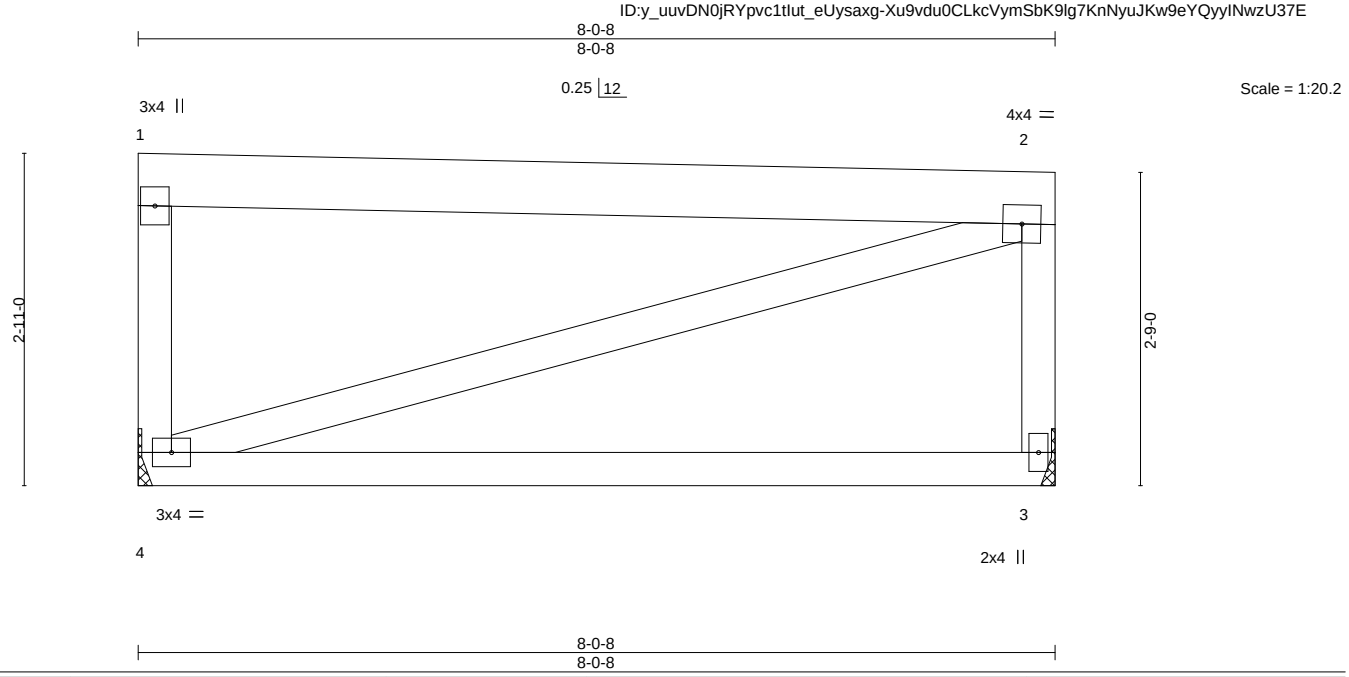

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.22	3-4	>430	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 48 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 8-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-77(LC 13)
Max Uplift 4=-10(LC 16), 3=-28(LC 12)
Max Grav 4=375(LC 22), 3=375(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-298/337, 2-3=-298/357

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T69	Roof Special	1	1	I51165036
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:56 2022 Page 1
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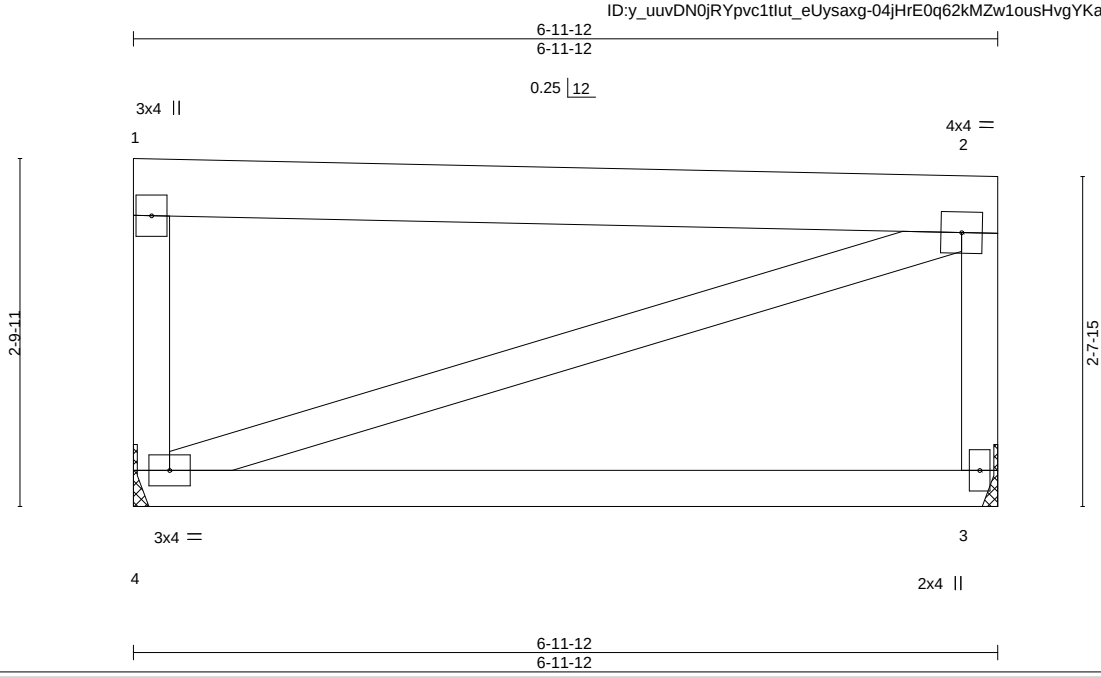

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	3-4	>670	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 43 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-74(LC 11)
Max Uplift 4=-7(LC 16), 3=-26(LC 12)
Max Grav 4=324(LC 22), 3=324(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-257/305, 2-3=-257/327

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T70	Roof Special	8	1	I51165037
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:58 2022 Page 1
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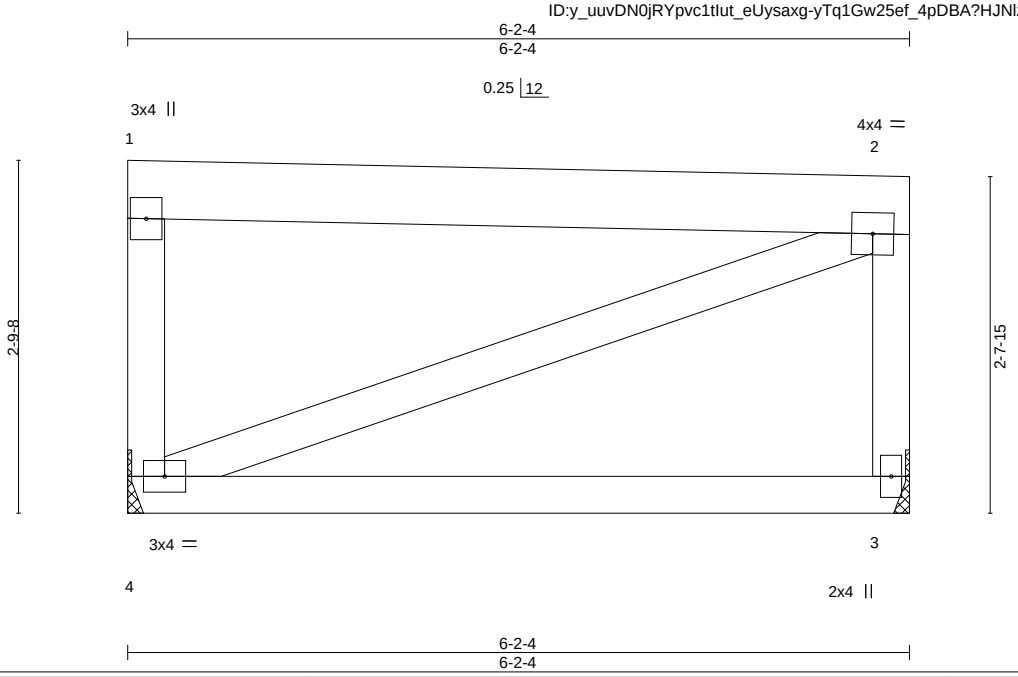

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	3-4	>977	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-73(LC 13)
Max Uplift 4=-4(LC 16), 3=-26(LC 12)
Max Grav 4=285(LC 22), 3=285(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-226/280, 2-3=-226/306

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B2RA
PRYOR-B1RA	T71	Roof Special	4	1	I51165038
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Apr 4 15:18:59 2022 Page 1
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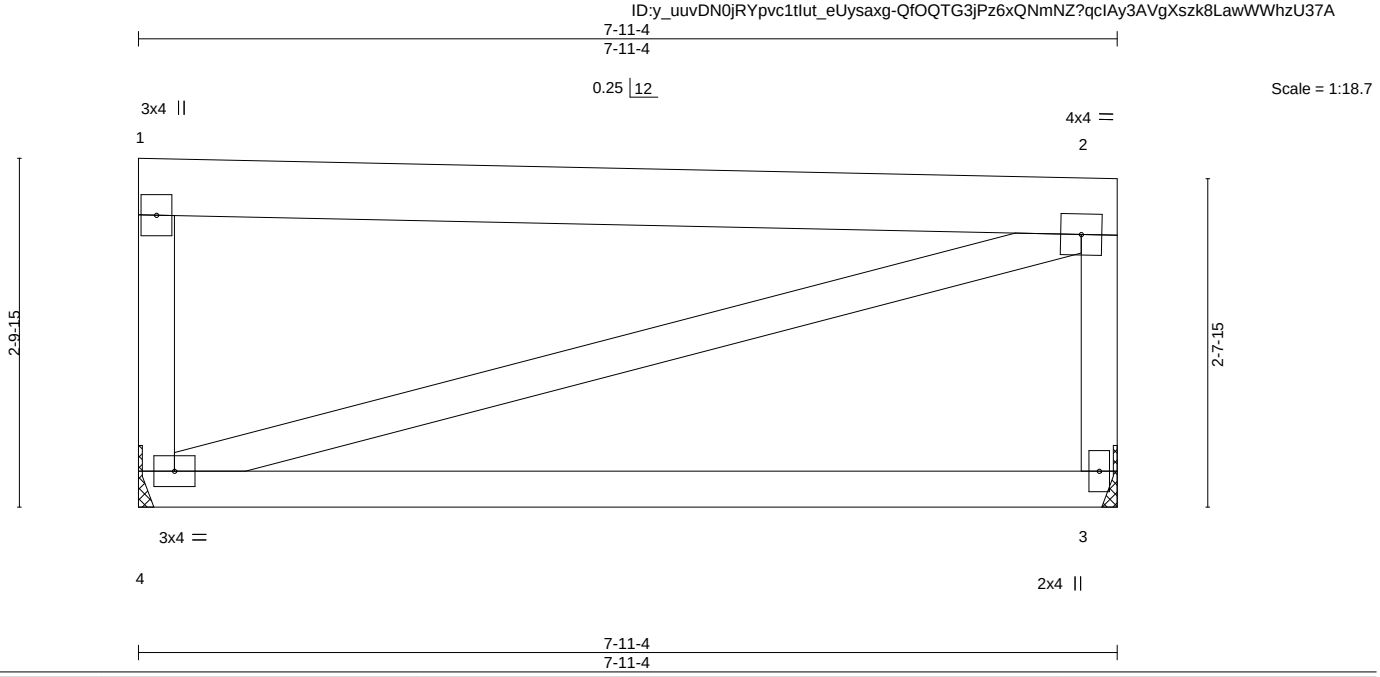

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.20	3-4	>448	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 48 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 7-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-74(LC 11)
Max Uplift 4=-10(LC 16), 3=-27(LC 12)
Max Grav 4=370(LC 22), 3=370(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-294/334, 2-3=-294/353

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 5,2022

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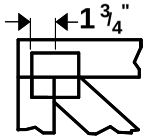
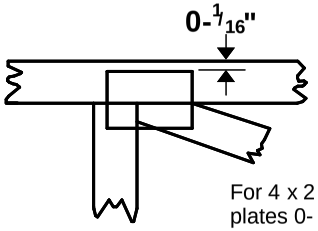
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

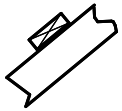
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

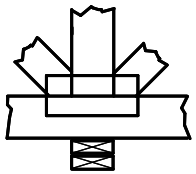
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

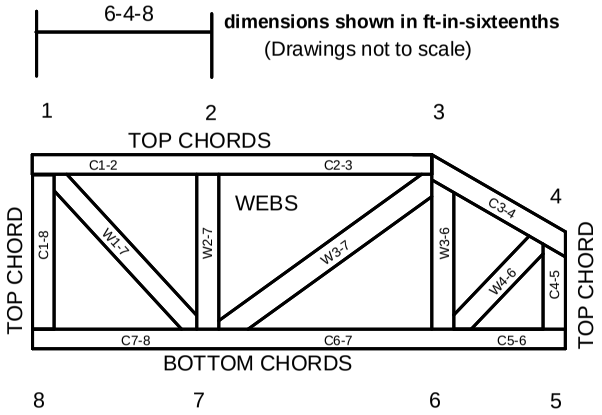


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area A ROOF

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: May 10, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
Roof Truss Layout Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 5/16/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES; ACCURACY; DIMENSIONS; FIT; INSTALLATION; PERFORMANCE OF EQUIPMENT OR SYSTEMS; COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.3750
www.triarchitects.com

TRUSS ENDS CUT FOR A 0-9-4 BEARING INSTEAD OF 1-0-4 BEARING

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

(TATE) 05/10/2022 BY CB

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

THE SIGNATURE AT WEST PRYOR
BUILDING 1 SECTION B
ROOF

Telephone: Fax:
Contact: Sales:
Drawn By: Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

TRUSS LAYOUT
Scale: 1/8" = 1'-0

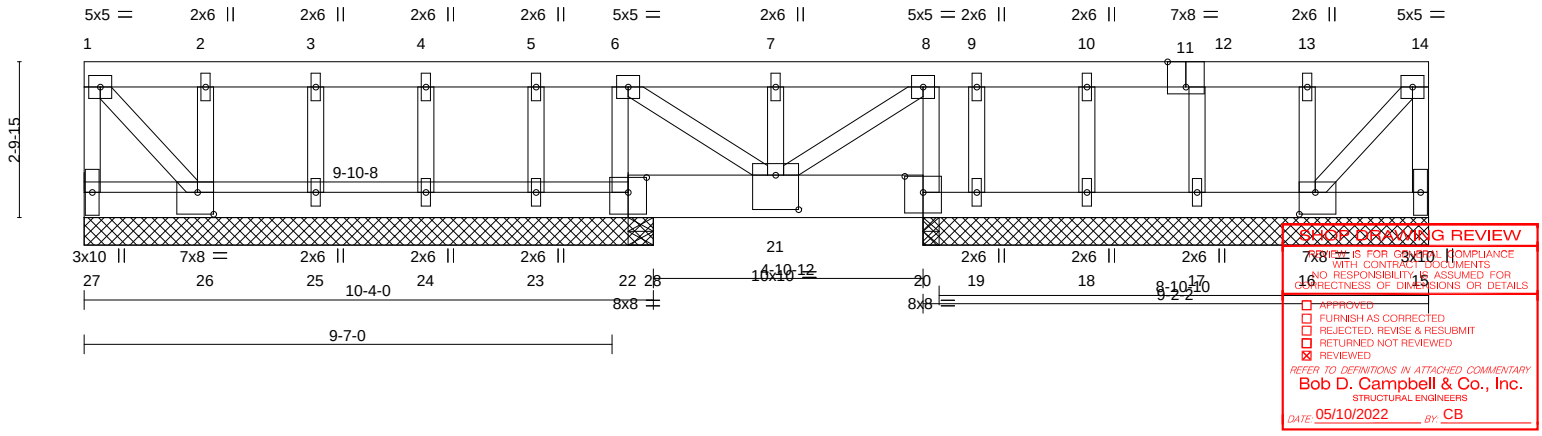
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G01	GABLE	1	1	I51652767
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:17 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-GUz1eQmNdicNlopfVT_YADBj6_BNtf4aDPGoj?zM7f4

2-2-7 | 4-2-7 | 12-6-10 | 24-4-14
2-2-7 | 2-0-0 | 8-4-3 | 11-10-4

Scale = 1:41.8



SHOP DRAWING REVIEW
THIS IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO DEFINITIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 05/10/2022 BY: CB

2-2-7 | 4-2-7 | 9-10-8 | 12-6-10 | 15-6-4 | 24-4-14
2-2-7 | 2-0-0 | 5-8-1 | 2-8-2 | 2-11-10 | 8-10-10

Plate Offsets (X,Y)-- [11:0-4-0,Edge], [16:0-3-8,0-4-12], [20:0-4-0,0-3-8], [21:0-5-0,0-7-8], [22:0-4-0,0-3-4], [26:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.01	21	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.02	21	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 176 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
20-22: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-4-0 except (jt=length) 15=9-2-2, 20=9-2-2, 20=9-2-2, 19=9-2-2, 18=9-2-2, 17=9-2-2, 16=9-2-2.
(lb) - Max Horz 27=65(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 24, 18, 17, 25 except 27=-1362(LC 43), 15=-1280(LC 44), 22=-795(LC 39), 20=-621(LC 42), 23=-464(LC 63), 19=-1030(LC 64), 16=-1211(LC 39), 26=-1293(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 23, 18, 17, 25 except 27=1318(LC 42), 15=1236(LC 39), 22=3824(LC 64), 22=3120(LC 1), 20=4202(LC 63), 20=3601(LC 1), 24=262(LC 1), 19=302(LC 39), 16=1401(LC 60), 26=1472(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-1309/1362, 1-2=-1119/1171, 2-3=-724/787, 3-4=-348/401, 4-5=-493/545, 5-6=-798/828, 6-7=-1342/674, 7-8=-1423/782, 8-9=-736/793, 9-10=-571/627, 10-12=-306/363, 12-13=-672/727, 13-14=-1077/1133, 14-15=-1217/1280
BOT CHORD 26-27=-570/572, 25-26=-695/583, 24-25=-476/414, 23-24=-976/880, 22-23=-1386/1335, 21-22=-1631/1508, 20-21=-1386/1271, 19-20=-1225/1201, 18-19=-1017/943, 17-18=-517/451, 16-17=-645/529, 15-16=-516/514
WEBS 6-21=-2045/2848, 8-21=-2093/2900, 6-22=-1851/1268, 8-20=-1702/1131, 9-19=-339/314, 14-16=-1734/1652, 1-26=-1858/1782

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 18, 17, 25 except (jt=lb) 27=1362, 15=1280, 22=795, 20=621, 23=464, 19=1030, 16=1211, 26=1293.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 5/16/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G01	GABLE	1	1	I51652767
					Job Reference (optional)

NOTES-

9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-4-0, 15-2-12 to 24-4-14 for 250.2 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 22-27=-20, 20-22=-928(F=-908), 15-20=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

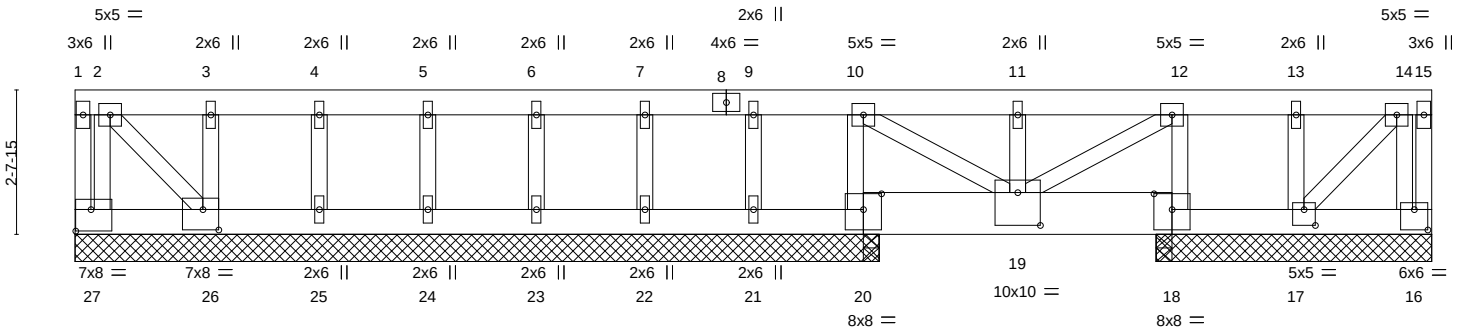
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G02	GABLE	1	1	I51652768
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:20 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-g3e9GRpGvd_ycFXEAbYFnspFICEZ41a0vNVSJJzM7f1

17-4-7 | 25-0-0
17-4-7 | 7-7-9

Scale = 1:42.5



14-9-13 | 17-4-7 | 20-2-9 | 25-0-0
14-9-13 | 2-6-10 | 2-10-2 | 4-9-7

Plate Offsets (X,Y)-- [16:0-3-0,0-4-8], [17:0-2-8,0-3-8], [18:0-4-0,0-3-8], [19:0-5-0,0-7-4], [20:0-4-0,0-3-8], [26:0-3-8,0-4-8], [27:0-3-6,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	19	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.02	19	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 178 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 18-20: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-10 oc bracing.

REACTIONS. All bearings 14-9-13 except (jt=length) 16=5-0-15, 18=5-0-15, 18=5-0-15, 17=5-0-15.
(lb) - Max Horz 27=298(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 22, 25 except 27=-1773(LC 43), 16=-909(LC 44), 18=-713(LC 42), 20=-594(LC 39), 21=-367(LC 63), 26=-1708(LC 42), 17=-873(LC 43)
Max Grav All reactions 250 lb or less at joint(s) 21, 23, 24, 25 except 27=1738(LC 42), 16=874(LC 39), 18=3339(LC 63), 18=2728(LC 1), 20=3274(LC 64), 20=2751(LC 1), 22=269(LC 1), 26=1881(LC 43), 17=900(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-27=-338/350, 2-3=-1669/1730, 3-4=-1241/1310, 4-5=-869/930, 5-6=-469/530, 6-7=-384/444, 7-9=-784/844, 9-10=-1160/1220, 10-11=-1383/719, 11-12=-1924/1346, 12-13=-458/550, 13-14=-858/950
BOT CHORD	26-27=-734/736, 25-26=-1000/883, 24-25=-497/431, 23-24=-676/610, 22-23=-1179/1112, 21-22=-1681/1594, 20-21=-2186/2127, 19-20=-2307/2186, 18-19=-495/349, 17-18=-440/351, 16-17=-510/501
WEBS	10-20=-1663/1089, 12-18=-1705/1106, 10-19=-1849/2668, 12-19=-1809/2669, 2-27=-1379/1418, 14-16=-671/748, 2-26=-2529/2449, 14-17=-1400/1275

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 25 except (jt=lb) 27=1773, 16=909, 18=713, 20=594, 21=367, 26=1708, 17=873.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G02	GABLE	1	1	I51652768
					Job Reference (optional)

NOTES-

9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-9-13, 19-11-1 to 25-0-0 for 251.3 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-15=-70, 20-27=-20, 18-20=-756(F=-736), 16-18=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G02A	GABLE	1	1	I51652769
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-N_FxMswXZiFXpnI9mhjbBzDvwDj3QYzUCxw_fkzM7et

15-4-6
15-4-6

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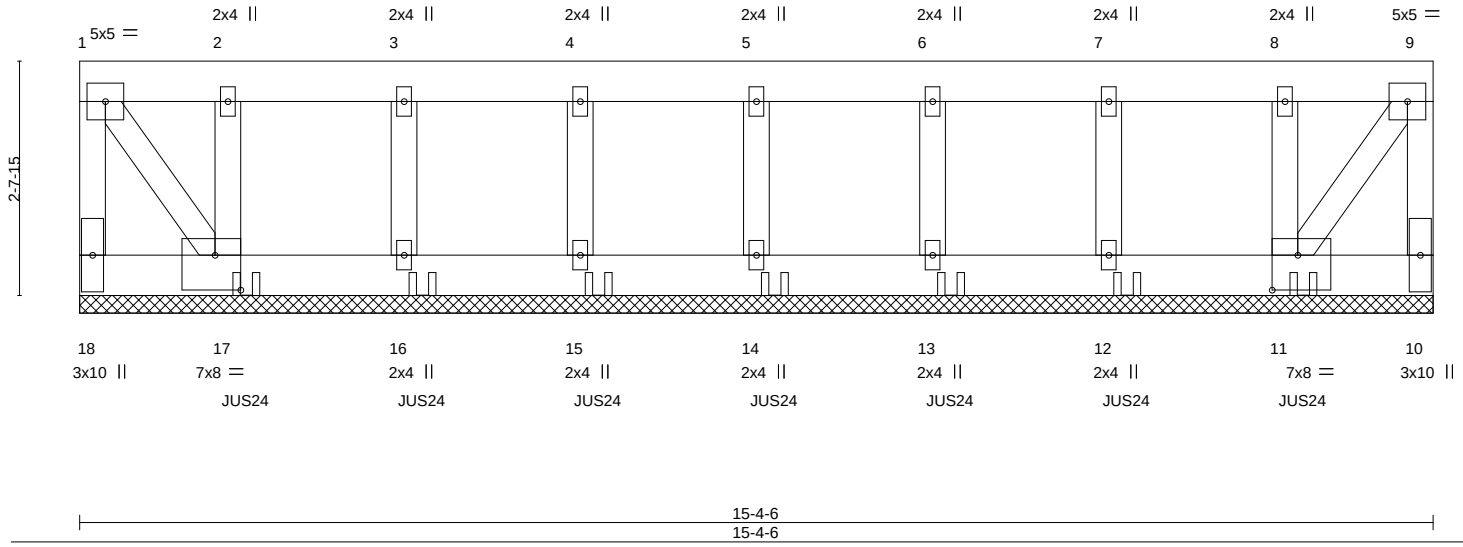

15-4-6
15-4-6

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 102 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-4-6.
(lb) - Max Horz 18=47(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-2130(LC 39), 10=-2119(LC 42), 17=-2021(LC 42), 11=-2010(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2152(LC 46), 10=2141(LC 43), 14=446(LC 1), 15=445(LC 1), 16=449(LC 1), 17=2293(LC 59), 13=445(LC 1), 12=449(LC 1), 11=2293(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-2141/2138, 1-2=-1485/1487, 2-3=-1209/1210, 3-4=-805/810, 4-5=-409/410, 5-6=-409/410, 6-7=-805/810, 7-8=-1209/1210, 8-9=-1485/1487, 9-10=-2152/2154
BOT CHORD 17-18=-373/379, 16-17=-1229/1235, 15-16=-829/835, 14-15=-429/435, 13-14=-429/435, 12-13=-829/835, 11-12=-1229/1235, 10-11=-326/330
WEBS 1-17=-2698/2699, 9-11=-2655/2657

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2130 lb uplift at joint 18, 2119 lb uplift at joint 10, 2021 lb uplift at joint 17 and 2010 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 15-4-6 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-11 from the left end to 13-10-11 to connect truss(es) to back face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB I51652769
PRYOR-B1RB	G02A	GABLE	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 14=-265(B) 15=-265(B) 16=-265(B) 17=-265(B) 13=-265(B) 12=-265(B) 11=-265(B)

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Chesterfield, MO 63017

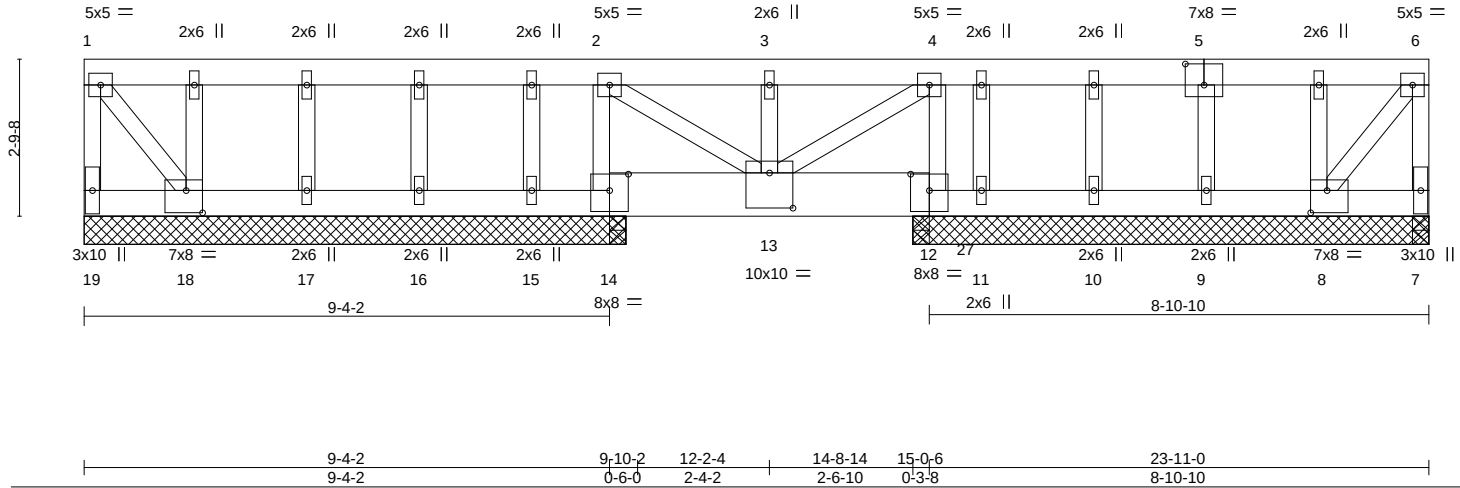
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G03	GABLE	1	1	I51652770
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:33 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-oZx4?uzQrdd6gF1kRqHIpbrPCRfrdtZwuv9eG3zM7eq

9-10-2 / 9-10-2 | 12-2-4 / 2-4-2 | 23-11-0 / 11-8-12

Scale = 1:41.0



9-4-2 / 9-4-2 | 9-10-2 / 0-6-0 | 12-2-4 / 2-4-2 | 14-8-14 / 2-6-10 | 15-0-6 / 0-3-8 | 23-11-0 / 8-10-10

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [8:0-3-8,0-4-12], [12:0-4-0,0-3-8], [13:0-5-0,0-7-8], [14:0-4-0,0-3-8], [18:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.00	19	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 173 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 12-14: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-11-2 oc bracing.

REACTIONS. All bearings 9-7-10 except (jt=length) 7=9-2-2, 7=9-2-2, 11=9-2-2, 12=0-3-8, 12=0-3-8, 10=9-2-2, 9=9-2-2, 8=9-2-2.
(lb) - Max Horz 19=137(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 17, 9 except 19=-1554(LC 39), 7=-1475(LC 42), 15=-495(LC 39), 18=-1312(LC 62), 11=-837(LC 40), 8=-1245(LC 61)
Max Grav All reactions 250 lb or less at joint(s) 7, 16, 17, 10, 9 except 19=1415(LC 60), 7=1344(LC 61), 14=3698(LC 60), 14=3024(LC 1), 18=1595(LC 43), 12=3821(LC 59), 12=3146(LC 1), 8=1517(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1380/1558, 1-2=-972/1098, 2-3=-1478/125, 3-4=-1520/167, 4-6=-923/1053, 6-7=-1330/1526
BOT CHORD	18-19=-543/586, 17-18=-619/455, 16-17=-670/530, 15-16=-1179/1039, 14-15=-1510/1416, 13-14=-1677/1412, 12-13=-1581/1329, 11-12=-1299/1277, 10-11=-1120/979, 9-10=-611/470, 8-9=-640/454, 7-8=-452/452
WEBS	3-13=-8/327, 2-13=-1127/3041, 4-13=-1122/3015, 1-18=-1911/1668, 6-8=-1787/1539, 2-14=-2108/585, 4-12=-2105/580

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9 except (jt=lb) 19=1554, 7=1475, 15=495, 18=1312, 11=837, 8=1245.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-7-10, 14-8-14 to 23-11-0 for 254.3 plf.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-6=-30, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=34, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=14, 6-7=26
7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=34, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=-26, 6-7=-14
8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-39, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
   Horz: 1-19=-18, 6-7=-22
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-39, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
   Horz: 1-19=22, 6-7=18
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=9, 6-7=13
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=-13, 6-7=-9
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-18, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
   Horz: 1-19=17, 6-7=4
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-18, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
   Horz: 1-19=-4, 6-7=-17
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=5, 6-7=11
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=-11, 6-7=-5
16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=5, 6-7=11
17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=8, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
   Horz: 1-19=-11, 6-7=-5
18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-18, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
   Horz: 1-19=13, 6-7=3
19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-18, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=-3, 6-7=-13

20) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-6=-30, 14-19=-20, 14-27=-726(F=-706), 7-27=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=13, 6-7=3

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=-3, 6-7=-13

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=10, 6-7=2

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=-2, 6-7=-10

25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=13, 6-7=3

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=-3, 6-7=-13

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=10, 6-7=2

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 14-19=-20, 14-27=-726(F=-706), 7-27=-20
Horz: 1-19=-2, 6-7=-10

29) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-28, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
Horz: 1-19=-16, 6-7=-16

30) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=4, 14-19=-12, 14-27=-718(F=-706), 7-27=-12
Horz: 1-19=16, 6-7=16

31) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

32) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

33) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

34) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

35) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=34, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=-26, 6-7=-14, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

36) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=34, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=-26, 6-7=-14, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

37) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-39, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 1-19=22, 6-7=18, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

38) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-39, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 1-19=22, 6-7=18, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

39) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=9, 6-7=13, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

40) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=9, 6-7=13, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

41) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=-13, 6-7=-9, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

42) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=-13, 6-7=-9, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

43) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 1-19=17, 6-7=4, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

44) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 1-19=17, 6-7=4, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

45) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 1-19=-4, 6-7=-17, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

46) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 1-19=-4, 6-7=-17, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

47) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=5, 6-7=11, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

48) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=5, 6-7=11, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

49) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=-11, 6-7=-5, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

50) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=-11, 6-7=-5, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

51) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=5, 6-7=11, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

52) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=5, 6-7=11, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

53) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=-26, 14-27=-718(F=-706), 12-27=-5, 11-12=9, 7-11=-12
Horz: 1-19=-11, 6-7=-5, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

54) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=8, 15-19=-12, 14-15=2, 14-27=-718(F=-706), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 1-19=-11, 6-7=-5, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

55) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 1-19=13, 6-7=3, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

56) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 1-19=13, 6-7=3, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

57) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 1-19=-3, 6-7=-13, 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

58) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 1-19=-3, 6-7=-13, 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

59) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 15-19=-20, 14-15=-34, 14-27=-726(F=-706), 12-27=-13, 11-12=1, 7-11=-20
Horz: 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

60) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 15-19=-20, 14-15=-6, 14-27=-726(F=-706), 12-27=-27, 11-12=-41, 7-11=-20
Horz: 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

61) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-12, 14-15=-26, 14-27=-436(F=-424), 12-27=-5, 11-12=9, 7-11=-12
Horz: 14-15=-4509, 12-27=-9255, 11-12=-3018
Drag: 1-6=200, 15-19=-254, 7-11=-254

62) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-18, 15-19=-12, 14-15=2, 14-27=-436(F=-424), 12-27=-19, 11-12=-33, 7-11=-12
Horz: 14-15=4509, 12-27=9255, 11-12=3018
Drag: 1-6=-200, 15-19=254, 7-11=254

63) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 1-19=13, 6-7=3, 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

64) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 1-19=13, 6-7=3, 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

65) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 1-19=-3, 6-7=-13, 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

Continued on page 6

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LOAD CASE(S) Standard

66) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 1-19=-3, 6-7=-13, 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

67) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 1-19=10, 6-7=2, 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 1-19=10, 6-7=2, 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-31, 14-27=-726(F=-706), 12-27=-15, 11-12=-4, 7-11=-20
Horz: 1-19=-2, 6-7=-10, 14-15=-3382, 12-27=-6941, 11-12=-2263
Drag: 1-6=150, 15-19=-191, 7-11=-191

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 15-19=-20, 14-15=-9, 14-27=-726(F=-706), 12-27=-25, 11-12=-36, 7-11=-20
Horz: 1-19=-2, 6-7=-10, 14-15=3382, 12-27=6941, 11-12=2263
Drag: 1-6=-150, 15-19=191, 7-11=191

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G04	Roof Special Girder	1	1	I51652771
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-C8cCdv?I8Y?gXiml6yq?RETvremaqE3NasNItOzM7en

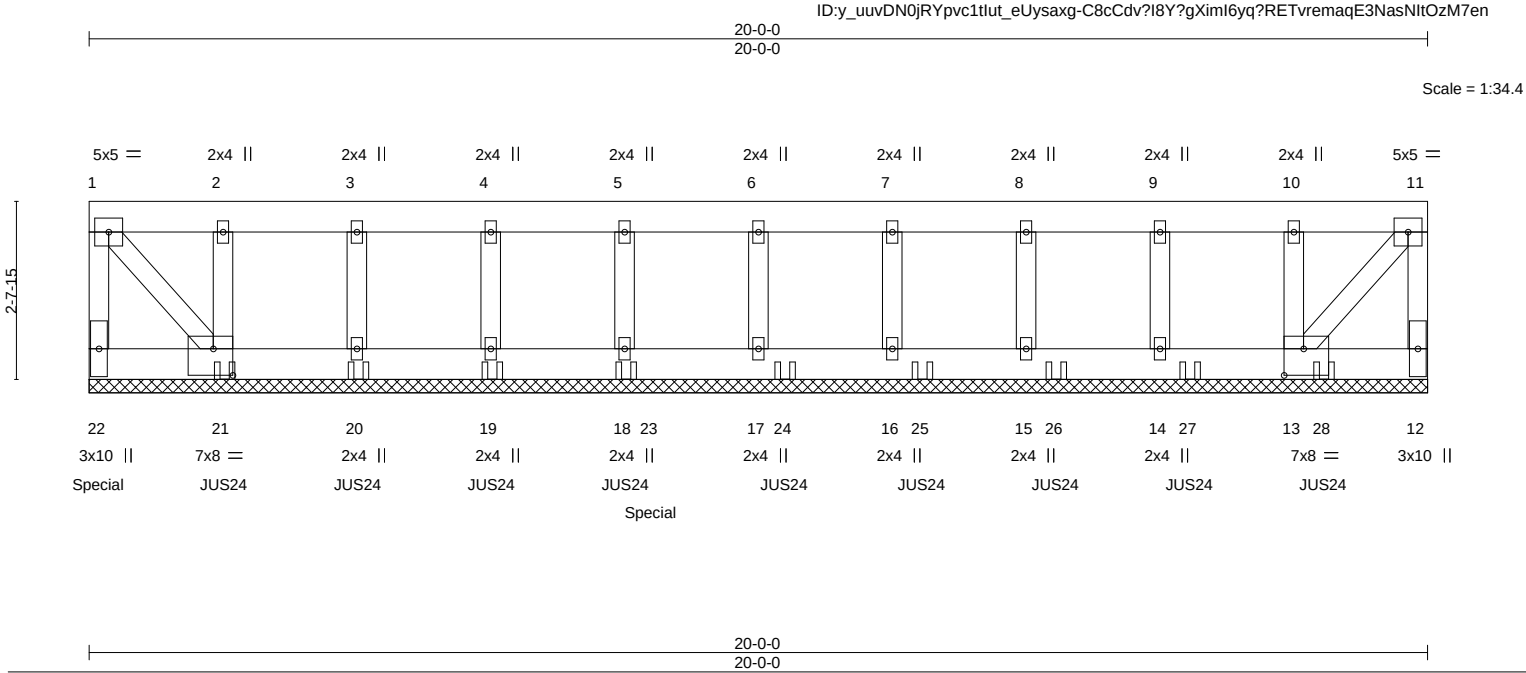

Plate Offsets (X,Y)-- [13:0-3-8,0-4-12], [21:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 129 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 22=47(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-2257(LC 39), 12=-2303(LC 42), 21=-2221(LC 42), 13=-2202(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 22=2479(LC 60), 12=2357(LC 59), 21=2505(LC 59), 20=451(LC 1), 19=422(LC 1), 18=667(LC 1), 17=455(LC 1), 16=435(LC 1), 15=450(LC 1), 14=436(LC 1), 13=2521(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-2338/2331, 1-2=-1944/1946, 2-3=-1610/1612, 3-4=-1207/1212, 4-5=-810/812, 5-6=-410/412, 6-7=-410/412, 7-8=-810/812, 8-9=-1207/1212, 9-10=-1610/1610, 10-11=-1943/1945, 11-12=-2346/2346
BOT CHORD	21-22=-432/437, 20-21=-1628/1630, 19-20=-1228/1230, 18-19=-828/830, 17-18=-428/430, 16-17=-427/429, 15-16=-827/829, 14-15=-1227/1229, 13-14=-1627/1629, 12-13=-389/391
WEBS	1-21=-3118/3118, 11-13=-3074/3074

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2257 lb uplift at joint 22, 2303 lb uplift at joint 12, 2221 lb uplift at joint 21 and 2202 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G04	Roof Special Girder	1	1	I51652771
					Job Reference (optional)

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-0-0 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-4-8 oc max. starting at 2-0-5 from the left end to 18-5-7 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 277 lb down at 0-1-12, and 265 lb down at 8-4-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 22=-277(F) 21=-265(F) 20=-265(F) 19=-265(F) 18=-265(F) 23=-265(F) 24=-265(F) 25=-265(F) 26=-265(F) 27=-265(F) 28=-265(F)

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G04A	Roof Special Girder	1	1	I51652772
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:39 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-djILFx1BRTOFOAUto4Oi3s5Rusoh1cvpGqcyTjzM7ek

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18-0-15

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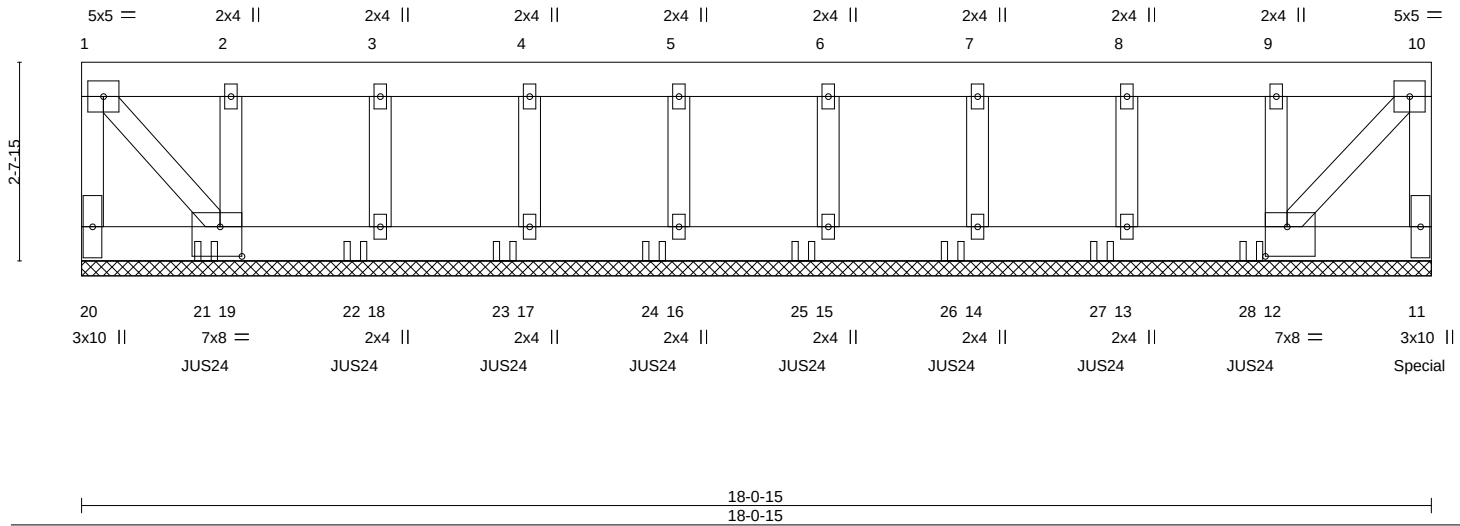

18-0-15
18-0-15

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 117 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-0-15.
(lb) - Max Horz 20=47(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-2065(LC 39), 11=-1969(LC 42), 19=-1967(LC 42), 12=-1943(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 20=2104(LC 46), 11=2190(LC 59), 19=2271(LC 59), 18=438(LC 1), 17=447(LC 1), 16=445(LC 1), 15=446(LC 1), 14=443(LC 1), 13=454(LC 1), 12=2215(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-2085/2079, 1-2=-1728/1731, 2-3=-1394/1391, 3-4=-992/997, 4-5=-594/597, 6-7=-624/627, 7-8=-1022/1027, 8-9=-1424/1421, 9-10=-1772/1777, 10-11=-2067/2068
BOT CHORD	19-20=-434/439, 18-19=-1413/1416, 17-18=-1013/1016, 16-17=-613/616, 14-15=-643/646, 13-14=-1043/1046, 12-13=-1443/1446, 11-12=-405/408
WEBS	1-19=-2784/2785, 10-12=-2746/2746

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2065 lb uplift at joint 20, 1969 lb uplift at joint 11, 1967 lb uplift at joint 19 and 1943 lb uplift at joint 12.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-0-15 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-0 from the left end to 15-8-0 to connect truss(es) to back face of bottom chord.

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Continued to page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652772
PRYOR-B1RB	G04A	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 273 lb down at 17-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-10=-70, 11-20=-20
   Concentrated Loads (lb)
   Vert: 11=-273(B) 21=-265(B) 22=-265(B) 23=-265(B) 24=-265(B) 25=-265(B) 26=-265(B) 27=-265(B) 28=-265(B)

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G05	Roof Special Girder	1	1	I51652773
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:42 2022 Page 1
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20-0-0

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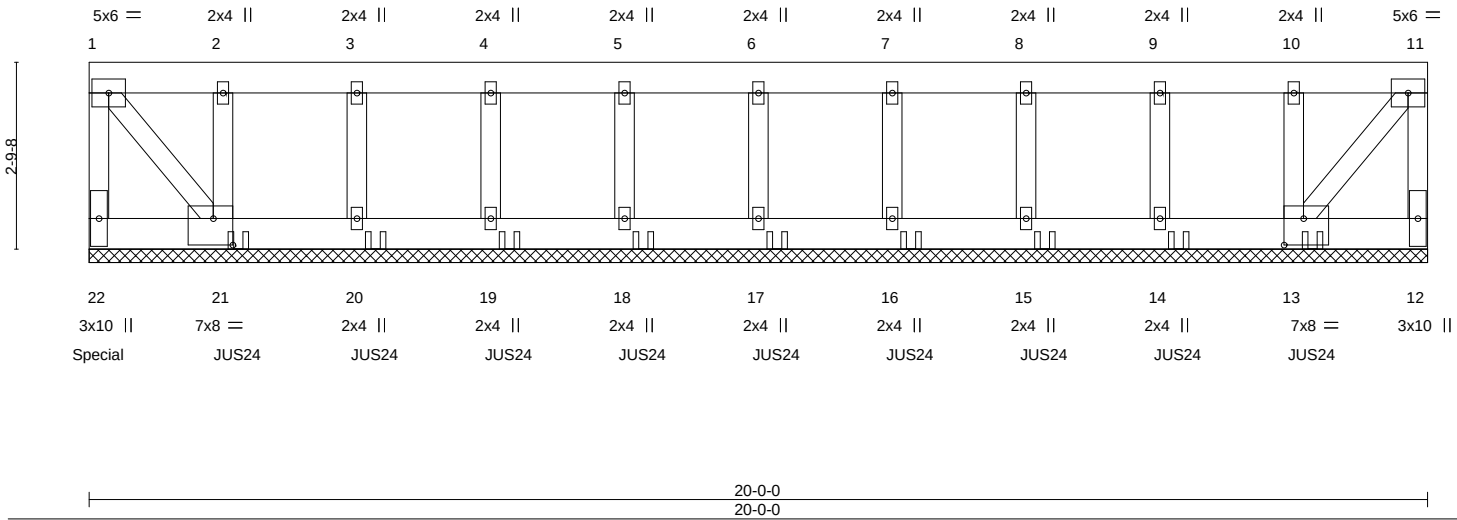

20-0-0
20-0-0

Plate Offsets (X,Y)-- [13:0-3-8,0-4-12], [21:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 131 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 22=-50(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-2396(LC 39), 12=-2447(LC 42), 21=-2354(LC 42), 13=-2342(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 22=2612(LC 60), 12=2477(LC 43), 21=2637(LC 59), 20=445(LC 1), 19=445(LC 1), 18=445(LC 1), 17=445(LC 1), 16=445(LC 1), 15=445(LC 1), 14=445(LC 1), 13=2637(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-2475/2469, 1-2=-1944/1946, 2-3=-1610/1612, 3-4=-1207/1212, 4-5=-810/812, 5-6=-410/412, 6-7=-410/412, 7-8=-810/812, 8-9=-1207/1212, 9-10=-1610/1612, 10-11=-1944/1946, 11-12=-2484/2483
BOT CHORD	21-22=-436/441, 20-21=-1629/1632, 19-20=-1229/1232, 18-19=-829/832, 17-18=-429/432, 16-17=-429/432, 15-16=-829/832, 14-15=-1229/1232, 13-14=-1629/1632, 12-13=-391/393
WEBS	1-21=-3230/3231, 11-13=-3184/3185

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2396 lb uplift at joint 22, 2447 lb uplift at joint 12, 2354 lb uplift at joint 21 and 2342 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652773
PRYOR-B1RB	G05	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-0-0 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-10 oc max. starting at 2-2-12 from the left end to 18-3-6 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 275 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 22=-275(B) 21=-265(B) 20=-265(B) 19=-265(B) 18=-265(B) 17=-265(B) 16=-265(B) 15=-265(B) 14=-265(B) 13=-265(B)

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G05A	GABLE	1	1	I51652774
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:44 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-zg5EIe5JG?0YUxNradztmwpNKtVCiy1YQ6Jj9wzM7ef

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5-5-9 | 4-2-7 | 6-10-8

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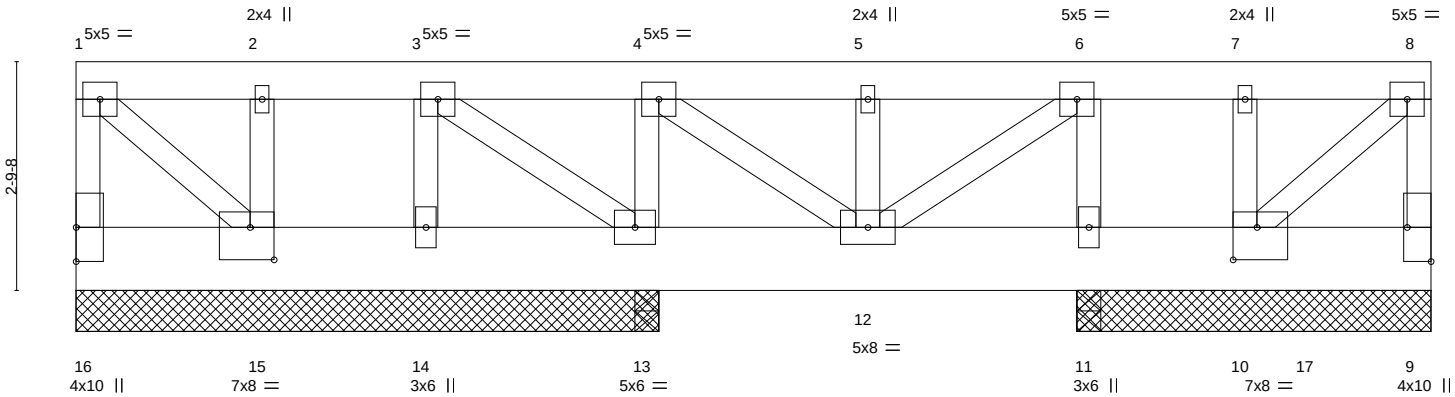

5-5-9 | 6-9-14 | 9-8-0 | 12-6-2 | 16-6-8
5-5-9 | 1-4-5 | 2-10-2 | 2-10-2 | 4-0-6

Plate Offsets (X,Y)-- [9:Edge,0-3-8], [10:0-3-8,0-4-12], [15:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	12	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 142 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 9=4-3-14, 11=4-3-14, 11=4-3-14, 10=4-3-14.
(lb) - Max Horz 16=157(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-637(LC 39), 9=-587(LC 42), 11=-352(LC 42), 14=-598(LC 43), 15=-602(LC 42), 10=-505(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 16=654(LC 60), 9=654(LC 43), 13=1037(LC 1), 13=1037(LC 1), 11=3806(LC 63), 11=3417(LC 1), 14=529(LC 42), 15=766(LC 59), 10=1601(LC 64)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-642/647, 1-2=-598/602, 3-4=-527/561, 4-5=-886/710, 5-6=-746/517, 6-7=-251/276, 7-8=-584/610, 8-9=-586/613
BOT CHORD	15-16=-767/788, 14-15=-724/702, 13-14=-1505/1482, 12-13=-843/790, 11-12=-631/592, 10-11=-631/592, 9-10=-633/633
WEBS	4-13=-963/780, 6-11=-917/736, 4-12=-1017/1287, 6-12=-1055/1314, 3-14=-564/593, 1-15=-957/938, 8-10=-907/874, 3-13=-956/931

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 637 lb uplift at joint 16, 587 lb uplift at joint 9, 352 lb uplift at joint 11, 598 lb uplift at joint 14, 602 lb uplift at joint 15 and 505 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-1-6, 12-2-10 to 16-6-8 for 289.3 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G05A	GABLE	1	1	I51652774
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 12-16=-20, 12-17=-868(F=-848), 9-17=-20

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G06	GABLE	1	1	I51652775
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:47 2022 Page 1
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15-5-7 / 15-5-7 | 21-4-0 / 5-10-9

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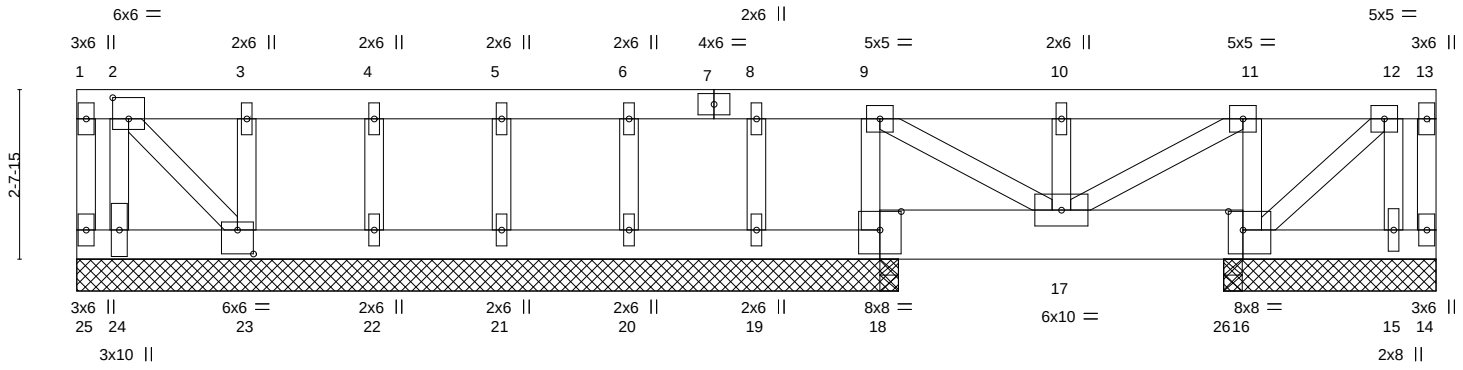

12-10-12 / 12-10-12 | 15-5-7 / 2-6-11 | 18-3-8 / 2-10-1 | 21-4-0 / 3-0-8

Plate Offsets (X,Y)-- [2:0-3-0,0-4-0], [16:0-2-12,0-3-8], [18:0-4-0,0-3-8], [23:0-3-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.01	17	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	-0.01	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 16-18: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-10 oc bracing.

REACTIONS. All bearings 12-10-12 except (jt=length) 14=3-4-0, 16=3-4-0, 16=3-4-0, 15=3-4-0.
(lb) - Max Horz 25=142(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22 except 25=-540(LC 43), 14=-214(LC 42), 18=-516(LC 39), 19=-232(LC 43), 23=-1398(LC 42), 24=-913(LC 39), 15=-637(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22 except 25=517(LC 42), 14=303(LC 43), 16=1719(LC 1), 16=1719(LC 1), 18=1992(LC 64), 18=1601(LC 1), 23=1535(LC 59), 24=966(LC 60), 15=439(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-25=-419/429, 2-3=-1363/1400, 3-4=-957/988, 4-5=-563/600, 5-6=-276/313, 6-8=-676/713, 8-9=-1035/1072, 9-10=-1002/650, 10-11=-1601/1309, 11-12=-723/783
BOT CHORD	23-24=-771/775, 22-23=-754/711, 21-22=-426/383, 20-21=-952/909, 19-20=-1470/1402, 18-19=-1985/1947, 17-18=-2068/1990, 15-16=-752/759
WEBS	9-18=-1178/890, 11-16=-1265/967, 9-17=-1509/1931, 11-17=-1433/1884, 2-24=-1028/1039, 12-15=-508/551, 2-23=-2202/2156, 12-16=-1133/1060

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22 except (jt=lb) 25=540, 14=214, 18=516, 19=232, 23=1398, 24=913, 15=637.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 12-10-12, 18-0-0 to 21-4-0 for 262.9 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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May 4,2022

LOAD CASE(S) Standard

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MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G06	GABLE	1	1	I51652775
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 18-25=-20, 16-18=-396(F=-376), 14-16=-20

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G06A	GABLE	1	1	I51652776
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Kev7MM9S4YeqbiFoNBZ2TzWAiuAPN9jHaO1Uq8zM7ea

16-7-13
16-7-13

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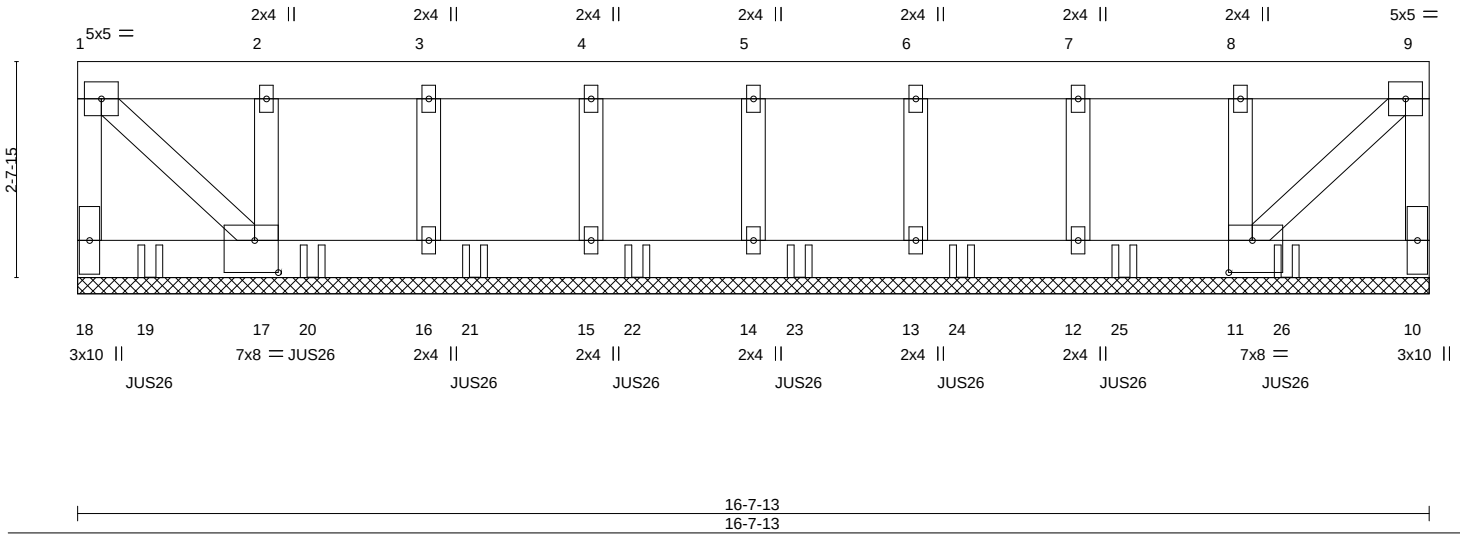

16-7-13
16-7-13

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 109 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 16-7-13.
(lb) - Max Horz 18=-47(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1555(LC 39), 10=-1614(LC 42), 17=-1397(LC 42), 11=-1400(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1874(LC 60), 10=1729(LC 59), 14=922(LC 1), 15=946(LC 1), 16=866(LC 1), 17=2231(LC 31), 13=942(LC 1), 12=881(LC 1), 11=2188(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1667/1659, 1-2=-1601/1605, 2-3=-1209/1206, 3-4=-808/813, 4-5=-409/413, 5-6=-409/413, 6-7=-808/813, 7-8=-1209/1206, 8-9=-1601/1605, 9-10=-1680/1683
BOT CHORD 17-18=-500/506, 16-17=-1228/1232, 15-16=-828/832, 14-15=-428/432, 13-14=-428/432, 12-13=-828/832, 11-12=-1228/1232, 10-11=-455/458
WEBS 1-17=-2380/2382, 9-11=-2340/2339

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1555 lb uplift at joint 18, 1614 lb uplift at joint 10, 1397 lb uplift at joint 17 and 1400 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-7-13 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-12 from the left end to 14-10-12 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB I51652776
PRYOR-B1RB	G06A	GABLE	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-751(F) 20=-749(F) 21=-749(F) 22=-749(F) 23=-749(F) 24=-749(F) 25=-749(F) 26=-749(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G07	Roof Special Girder	1	1	I51652777
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:53 2022 Page 1
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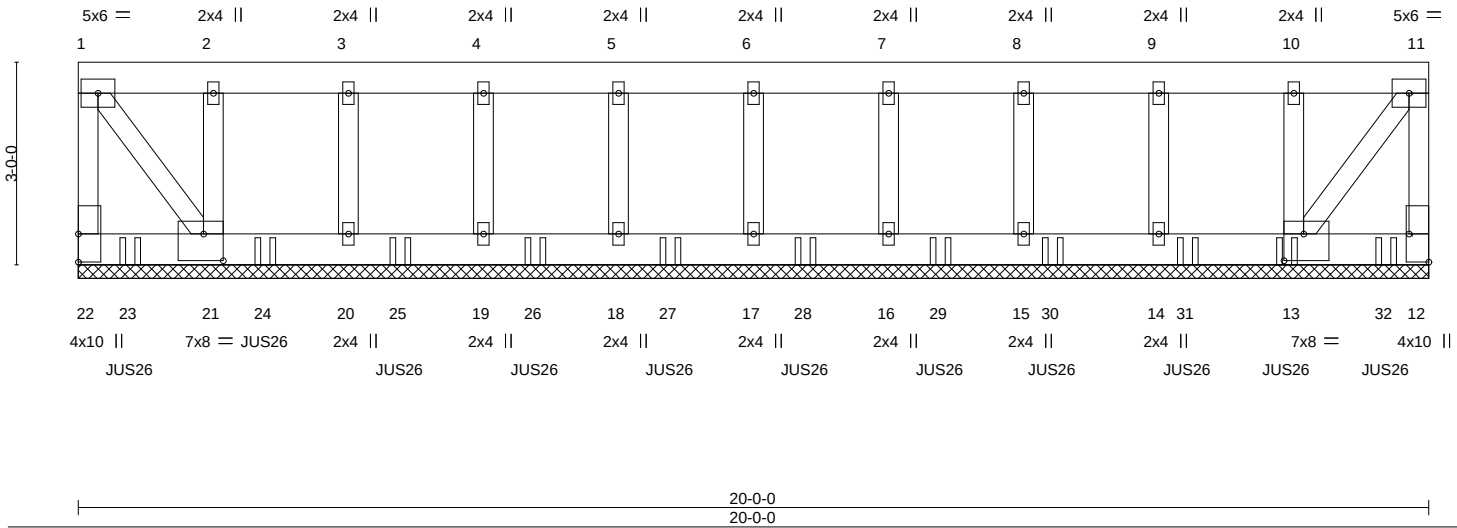

20-0-0
20-0-0

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [13:0-3-8,0-4-12], [21:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 135 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 22=-54(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-2585(LC 39), 12=-2548(LC 42), 21=-2422(LC 42), 13=-2327(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 22=2886(LC 60), 12=2936(LC 59), 21=3143(LC 59), 20=907(LC 1), 19=935(LC 1), 18=928(LC 1), 17=926(LC 1), 16=942(LC 1), 15=1068(LC 1), 14=899(LC 1), 13=3316(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-2693/2687, 1-2=-1945/1946, 2-3=-1611/1612, 3-4=-1207/1212, 4-5=-811/812, 5-6=-411/412, 6-7=-410/411, 7-8=-810/811, 8-9=-1206/1211, 9-10=-1610/1611, 10-11=-1944/1945, 11-12=-2703/2702
BOT CHORD	21-22=-442/448, 20-21=-1633/1637, 19-20=-1233/1237, 18-19=-833/837, 17-18=-433/437, 16-17=-432/436, 15-16=-832/836, 14-15=-1232/1236, 13-14=-1632/1636, 12-13=-392/395
WEBS	1-21=-3414/3415, 11-13=-3365/3366

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2585 lb uplift at joint 22, 2548 lb uplift at joint 12, 2422 lb uplift at joint 21 and 2327 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652777
PRYOR-B1RB	G07	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-0-0 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-4 from the left end to 19-4-7 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 13=-749(B) 23=-753(B) 24=-749(B) 25=-749(B) 26=-749(B) 27=-749(B) 28=-749(B) 29=-749(B) 30=-749(B) 31=-749(B) 32=-754(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G07A	GABLE	1	1	I51652778
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:55 2022 Page 1
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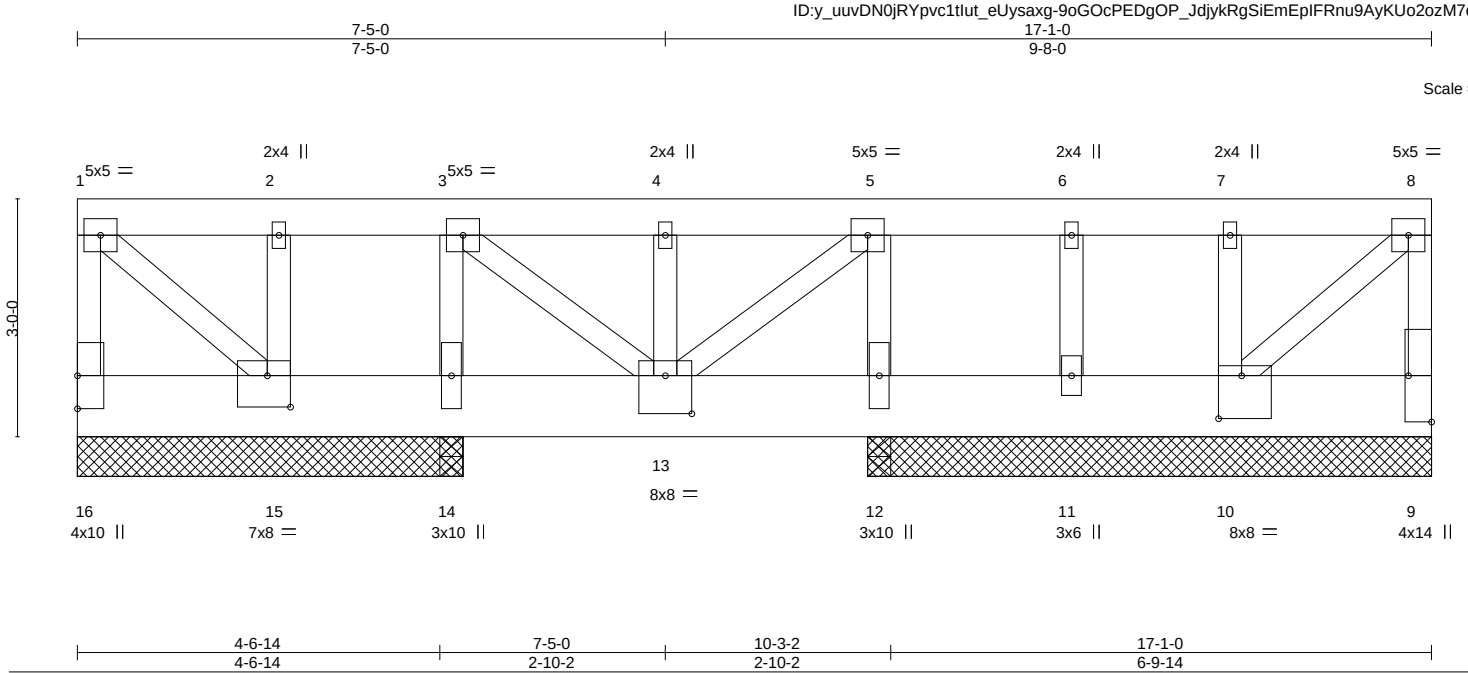

Plate Offsets (X,Y)-- [9:Edge,0-3-8], [10:0-3-8,0-6-8], [13:0-4-0,0-5-12], [15:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	-0.00	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 16=4-10-6, 14=4-10-6, 14=4-10-6, 15=4-10-6.
(lb) - Max Horz 16=-159(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-738(LC 39), 9=-898(LC 44), 14=-585(LC 39), 12=-585(LC 42), 15=-1055(LC 44), 11=-622(LC 64), 10=-850(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 11 except 16=788(LC 60), 9=867(LC 39), 14=3952(LC 64), 14=3398(LC 1), 12=3895(LC 63), 12=3340(LC 1), 15=700(LC 39), 10=1162(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-745/790, 1-2=-727/771, 2-3=-285/340, 3-4=-1301/927, 4-5=-1039/620, 5-6=-534/575, 6-7=-432/433, 7-8=-863/904, 8-9=-856/898
BOT CHORD	15-16=-857/860, 14-15=-752/690, 13-14=-752/690, 12-13=-1150/1093, 11-12=-1150/1093, 10-11=-458/388, 9-10=-704/704
WEBS	3-14=-1501/1075, 5-12=-1536/1129, 3-13=-1486/2044, 5-13=-1540/2094, 1-15=-1194/1136, 8-10=-1315/1261

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 738 lb uplift at joint 16, 898 lb uplift at joint 9, 585 lb uplift at joint 14, 585 lb uplift at joint 12, 1055 lb uplift at joint 15, 622 lb uplift at joint 11 and 850 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 4-10-6, 9-11-10 to 17-1-0 for 285.2 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 4,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G07A	GABLE	1	1	I51652778
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 14-16=-20, 12-14=-920(F=-900), 9-12=-20

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G08	GABLE	1	1	I51652779
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:42:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-ZNxXFRG5zJnZA5RXPaD9KtOj4W70_AqceHiTe7zM7eR

20-10-0 30-0-0
20-10-0 9-2-0

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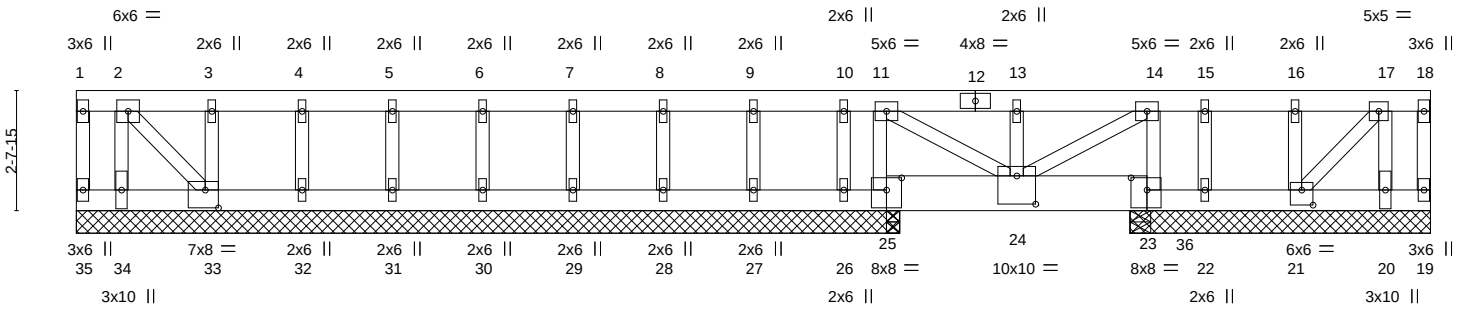

18-2-14 20-10-0 23-4-2 23-9-10 30-0-0
18-2-14 2-7-2 2-6-2 0-5-8 6-2-6

Plate Offsets (X,Y)-- [21:0-3-0,0-4-0], [23:0-4-4,0-3-4], [24:0-5-0,0-7-8], [25:0-4-0,0-3-4], [33:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.01	24	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.03	24	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.01	31	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 23-25: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 5-2-14 oc bracing: 26-27 4-5-8 oc bracing: 25-26.

REACTIONS. All bearings 18-2-14 except (jt=length) 19=6-7-14, 25=0-3-15 (input: 0-3-8), 25=0-3-15 (input: 0-3-8), 25=0-3-15 (input: 0-3-8), 23=0-5-8, 23=0-5-8, 22=6-7-14, 21=6-7-14, 20=6-7-14.
(lb) - Max Horz 25=129(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 31, 32 except 35=-417(LC 43), 19=-218(LC 46), 25=-395(LC 39), 23=-795(LC 42), 33=-1878(LC 42), 34=-1532(LC 43), 26=-1508(LC 63), 22=-795(LC 64), 21=-998(LC 39), 20=-859(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 19, 28, 29, 30, 31, 32, 22 except 35=407(LC 42), 25=4789(LC 64), 25=4326(LC 1), 25=4326(LC 1), 23=4699(LC 63), 23=3949(LC 1), 27=265(LC 31), 33=2052(LC 59), 34=1560(LC 60), 26=469(LC 42), 21=1280(LC 44), 20=797(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-35=-326/336, 2-3=-1789/1858, 3-4=-1389/1458, 4-5=-989/1058, 5-6=-589/658, 6-7=-217/286, 7-8=-617/686, 8-9=-977/1046, 9-10=-1417/1486, 10-11=-1578/1640, 11-13=-1736/876, 13-14=-2253/1422, 14-15=-231/319, 15-16=-449/557, 16-17=-889/997
BOT CHORD	33-34=-652/654, 32-33=-1387/1325, 31-32=-905/843, 30-31=-423/361, 29-30=-778/716, 28-29=-1212/1198, 27-28=-1742/1637, 26-27=-2224/2162, 25-26=-2390/2385, 24-25=-2653/2500, 23-24=-826/656, 22-23=-563/474, 21-22=-451/343, 20-21=-677/670
WEBS	11-25=-1847/1069, 14-23=-2003/1204, 11-24=-2246/3319, 14-24=-2166/3290, 3-33=-264/252, 2-34=-1613/1662, 10-26=-331/323, 17-20=-833/910, 2-33=-2958/2863, 17-21=-1658/1506

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 25, 25, 25 greater than input bearing size.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G08	GABLE	1	1	I51652779
					Job Reference (optional)

NOTES-

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 31, 32 except (jt=lb) 35=417, 19=218, 25=395, 23=795, 33=1878, 34=1532, 26=1508, 22=795, 21=998, 20=859.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-2-14, 23-4-2 to 30-0-0 for 241.0 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-70, 25-35=-20, 23-25=-1010(F=-990), 19-23=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G08A	Roof Special Girder	1	1	I51652780
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:00 2022 Page 1
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17-11-7
17-11-7

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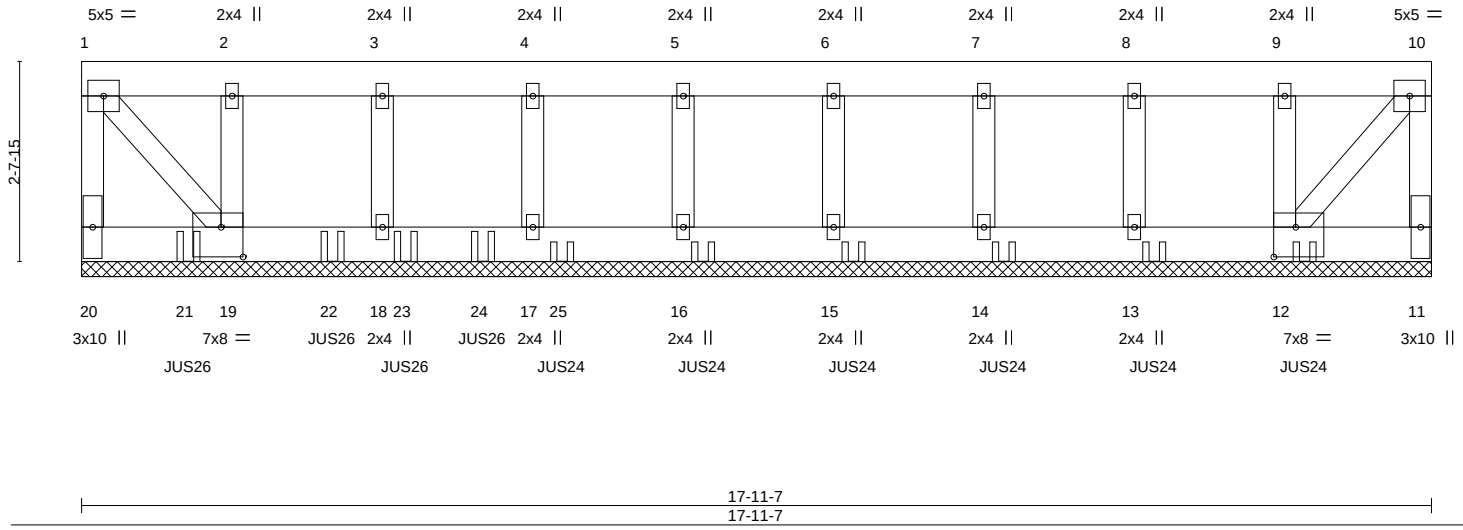

17-11-7
17-11-7

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 117 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-11-7.
(lb) - Max Horz 20=-47(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-2066(LC 39), 11=-2105(LC 42), 19=-1867(LC 42), 12=-2006(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 20=2189(LC 60), 11=2133(LC 43), 19=2569(LC 59), 18=1641(LC 1), 17=1070(LC 1), 16=387(LC 1), 15=461(LC 1), 14=441(LC 1), 13=447(LC 1), 12=2300(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2115/2108, 1-2=-1753/1756, 2-3=-1420/1416, 3-4=-1017/1022, 4-5=-620/622, 6-7=-600/602, 7-8=-997/1002, 8-9=-1400/1396, 9-10=-1725/1727, 10-11=-2140/2141
BOT CHORD 19-20=-434/439, 18-19=-1438/1441, 17-18=-1038/1041, 16-17=-638/641, 14-15=-618/621, 13-14=-1018/1021, 12-13=-1418/1421, 11-12=-380/383
WEBS 1-19=-2823/2824, 10-12=-2775/2776

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2066 lb uplift at joint 20, 2105 lb uplift at joint 11, 1867 lb uplift at joint 19 and 2006 lb uplift at joint 12.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-11-7 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-11-0 oc max. starting at 1-5-1 from the left end to 5-4-1 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652780
PRYOR-B1RB	G08A	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-4-11 from the left end to 16-3-3 to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-10=-70, 11-20=-20
   Concentrated Loads (lb)
   Vert: 16=-265(F) 15=-265(F) 14=-265(F) 13=-265(F) 12=-265(F) 21=-749(F) 22=-749(F) 23=-749(F) 24=-749(F) 25=-265(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G09	Roof Special Girder	1	1	I51652781
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:04 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-OXJoVULsY9Xiu0vhlqKZZ8ehOxJROt?V0D9nsmzM7eL

20-0-0
20-0-0

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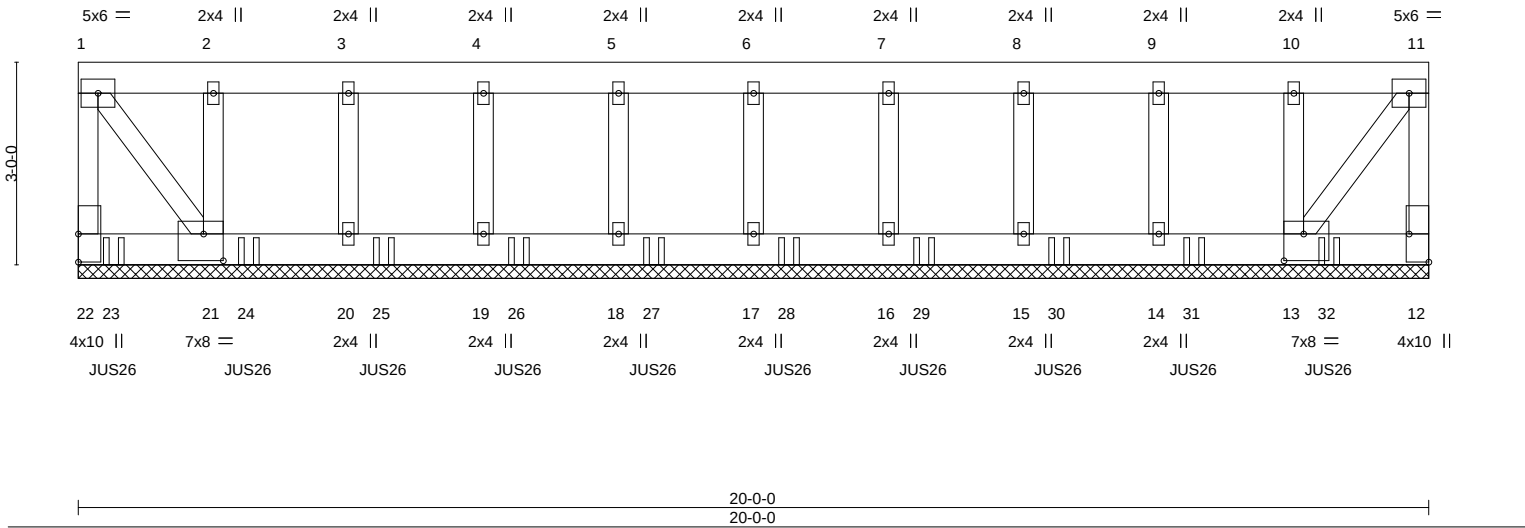

20-0-0
20-0-0

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [13:0-3-8,0-4-12], [21:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 135 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 22=54(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-2554(LC 39), 12=-2636(LC 42), 21=-2431(LC 42), 13=-2408(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 22=2950(LC 60), 12=2748(LC 59), 21=3123(LC 59), 20=917(LC 1), 19=932(LC 1), 18=928(LC 1), 17=930(LC 1), 16=927(LC 1), 15=936(LC 1), 14=904(LC 1), 13=3144(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-2692/2686, 1-2=-1945/1946, 2-3=-1611/1612, 3-4=-1206/1212, 4-5=-811/812, 5-6=-411/412, 6-7=-411/412, 7-8=-811/812, 8-9=-1206/1212, 9-10=-1611/1612, 10-11=-1944/1945, 11-12=-2702/2701
BOT CHORD	21-22=-442/448, 20-21=-1633/1636, 19-20=-1233/1236, 18-19=-833/836, 17-18=-433/436, 16-17=-432/436, 15-16=-832/836, 14-15=-1232/1236, 13-14=-1632/1636, 12-13=-392/395
WEBS	1-21=-3414/3414, 11-13=-3365/3365

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2554 lb uplift at joint 22, 2636 lb uplift at joint 12, 2431 lb uplift at joint 21 and 2408 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652781
PRYOR-B1RB	G09	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-0-0 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-5 from the left end to 18-6-5 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 23=-755(B) 24=-749(B) 25=-749(B) 26=-749(B) 27=-749(B) 28=-749(B) 29=-749(B) 30=-749(B) 31=-749(B) 32=-749(B)

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G09A	GABLE	1	1	I51652782
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:06 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-KvQYwAM74mnQ7J24tFN1fZj7ok0fsrOnUXeuxfzM7eJ

5-3-12 6-10-4 10-9-4 16-1-0
5-3-12 1-6-8 3-11-0 5-3-12

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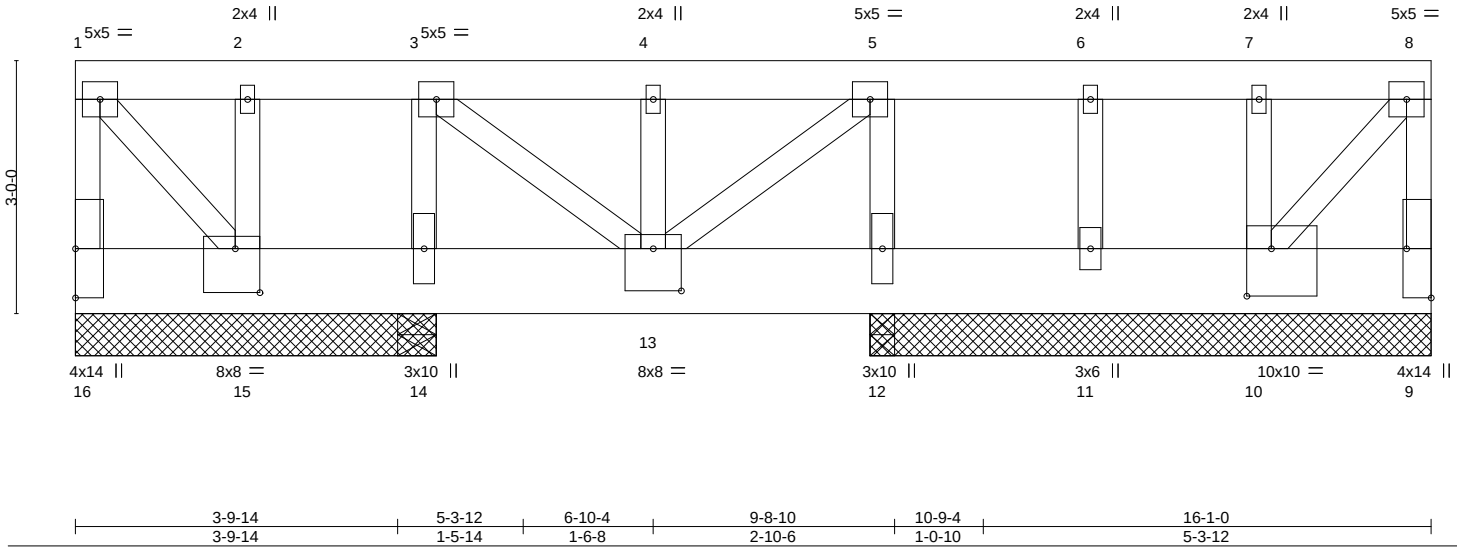

3-9-14 5-3-12 6-10-4 9-8-10 10-9-4 16-1-0
3-9-14 1-5-14 1-6-8 2-10-6 1-0-10 5-3-12

Plate Offsets (X,Y)-- [9:Edge,0-3-8], [10:0-3-8,0-6-12], [13:0-4-0,0-6-0], [15:0-3-8,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.00	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 138 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-7-14 except (jt=length) 16=4-3-6, 15=4-3-6, 14=0-5-8, 14=0-5-8.
(lb) - Max Horz 16=-164(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-768(LC 39), 9=-989(LC 44), 12=-591(LC 42), 15=-1216(LC 44), 11=-691(LC 64), 10=-902(LC 39), 14=-579(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 11 except 16=832(LC 46), 9=922(LC 39), 12=4260(LC 63), 12=3679(LC 1), 15=715(LC 39), 10=1245(LC 44), 14=4403(LC 64), 14=3829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-793/847, 1-2=-608/650, 2-3=-267/309, 3-4=-1408/992, 4-5=-1135/655, 5-6=-576/615, 6-7=-361/401, 7-8=-742/782, 8-9=-914/971
BOT CHORD	15-16=-737/740, 14-15=-751/691, 13-14=-751/691, 12-13=-1207/1150, 11-12=-1207/1150, 10-11=-481/412, 9-10=-578/578
WEBS	3-14=-1607/1133, 5-12=-1645/1199, 3-13=-1577/2185, 5-13=-1637/2242, 8-10=-1285/1226, 1-15=-1151/1087

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 768 lb uplift at joint 16, 989 lb uplift at joint 9, 591 lb uplift at joint 12, 1216 lb uplift at joint 15, 691 lb uplift at joint 11, 902 lb uplift at joint 10 and 579 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 4-3-6, 9-5-2 to 16-1-0 for 294.1 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 4,2022

LOAD CASE(S) Standard

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G09A	GABLE	1	1	I51652782
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 14-16=-20, 12-14=-1020(F=-1000), 9-12=-20

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G10	GABLE	1	1	I51652783
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-kU6hYBP?NhA?_nneYNwkGBLbzyw729TEAVtYX_zM7eG

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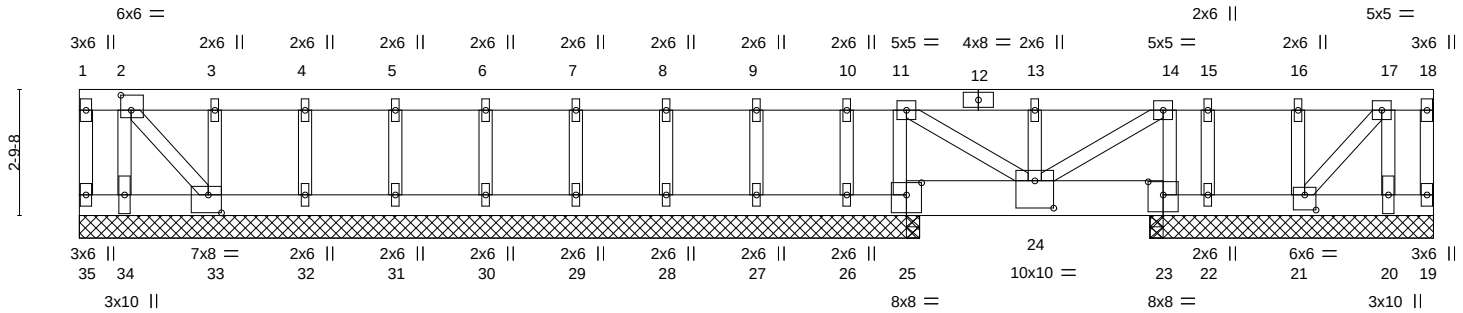

18-7-6 (18-7-6) | 21-2-0 (2-6-10) | 24-0-2 (2-10-2) | 30-0-0 (5-11-14)

Plate Offsets (X,Y)-- [2:0-2-12,0-4-0], [21:0-3-0,0-4-0], [23:0-4-0,0-3-8], [24:0-5-0,0-7-4], [25:0-4-0,0-3-4], [33:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.01	24	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.02	24	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	-0.01	21	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 23-25: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 5-10-15 oc bracing: 27-28 5-2-10 oc bracing: 26-27 4-7-9 oc bracing: 25-26.

REACTIONS. All bearings 18-7-6 except (jt=length) 19=6-3-6, 23=6-3-6, 23=6-3-6, 22=6-3-6, 21=6-3-6, 20=6-3-6.
(lb) - Max Horz 35=-202(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 31, 32 except 35=-454(LC 43), 19=-223(LC 46), 25=-680(LC 39), 23=-830(LC 42), 33=-2042(LC 42), 34=-1654(LC 39), 26=-764(LC 63), 22=-858(LC 64), 21=-1034(LC 39), 20=-846(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 19, 28, 29, 30, 31, 32, 22 except 35=448(LC 42), 25=3613(LC 64), 25=3007(LC 1), 23=4050(LC 63), 23=3316(LC 1), 27=265(LC 31), 33=2188(LC 43), 34=1690(LC 60), 26=342(LC 42), 21=1258(LC 60), 20=816(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-35=-361/367, 2-3=-1845/1894, 3-4=-1445/1494, 4-5=-1045/1094, 5-6=-645/694, 6-7=-245/294, 7-8=-592/641, 8-9=-952/1001, 9-10=-1392/1441, 10-11=-1627/1676, 11-13=-1444/856, 13-14=-1965/1394, 14-15=-201/264, 15-16=-411/491, 16-17=-851/931
BOT CHORD	34-35=-355/358, 33-34=-837/840, 32-33=-1230/1178, 31-32=-748/696, 30-31=-361/310, 29-30=-843/792, 28-29=-1326/1274, 27-28=-1808/1756, 26-27=-2290/2205, 25-26=-2597/2564, 24-25=-2731/2618, 23-24=-658/522, 22-23=-486/441, 21-22=-390/306, 20-21=-679/674
WEBS	11-25=-1776/1198, 14-23=-1714/1134, 11-24=-2200/3013, 14-24=-2137/2989, 3-33=-287/273, 2-34=-1745/1778, 15-22=-274/248, 17-20=-851/903, 2-33=-3115/3048, 17-21=-1616/1502

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G10	GABLE	1	1	I51652783
					Job Reference (optional)

NOTES-

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 31, 32 except (jt=lb) 35=454, 19=223, 25=680, 23=830, 33=2042, 34=1654, 26=764, 22=858, 21=1034, 20=846.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-7-6, 23-8-10 to 30-0-0 for 241.0 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-70, 25-35=-20, 23-25=-784(F=-764), 19-23=-20

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G10A	Roof Special Girder	1	1	I51652784
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:11 2022 Page 1
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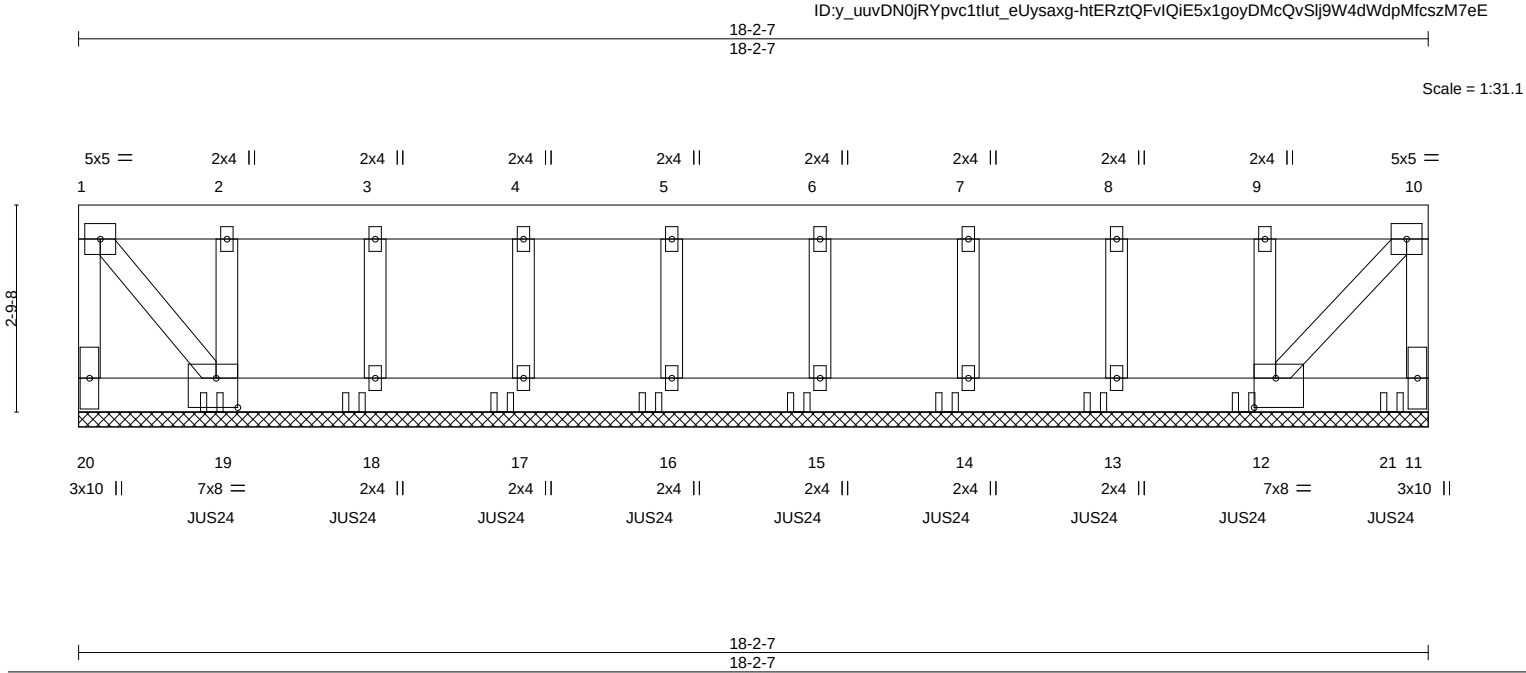

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 120 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-2-7.
(lb) - Max Horz 20=-50(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-2160(LC 39), 11=-2032(LC 42), 19=-2059(LC 42), 12=-1969(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 20=2189(LC 46), 11=2220(LC 59), 19=2343(LC 59), 18=445(LC 1), 17=445(LC 1), 16=446(LC 1), 15=444(LC 1), 14=451(LC 1), 13=422(LC 1), 12=2326(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-2175/2169, 1-2=-1702/1704, 2-3=-1368/1369, 3-4=-965/970, 4-5=-568/570, 5-6=-251/253, 6-7=-651/653, 7-8=-1048/1053, 8-9=-1451/1447, 9-10=-1821/1823, 10-11=-2122/2122
BOT CHORD	19-20=-437/443, 18-19=-1389/1393, 17-18=-989/993, 16-17=-589/593, 15-16=-272/275, 14-15=-672/675, 13-14=-1072/1075, 12-13=-1472/1475, 11-12=-431/434
WEBS	1-19=-2842/2843, 10-12=-2818/2819

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2160 lb uplift at joint 20, 2032 lb uplift at joint 11, 2059 lb uplift at joint 19 and 1969 lb uplift at joint 12.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-2-7 for 200.0 plf.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652784
PRYOR-B1RB	G10A	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-9 from the left end to 17-8-9 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-10=-70, 11-20=-20
   Concentrated Loads (lb)
   Vert: 19=-265(B) 18=-265(B) 17=-265(B) 16=-265(B) 15=-265(B) 14=-265(B) 13=-265(B) 12=-265(B) 21=-272(B)

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G11	Roof Special Girder	1	1	I51652785
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:14 2022 Page 1
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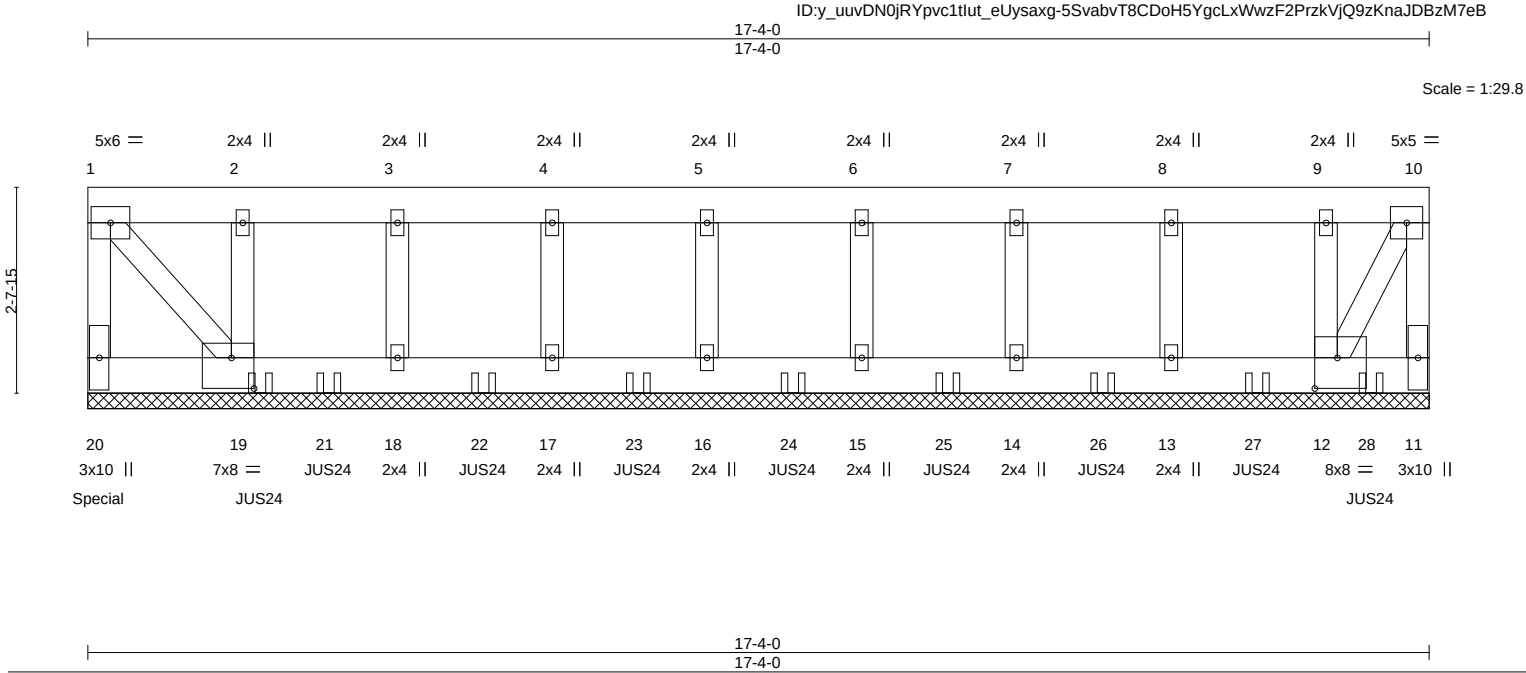

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	-0.01	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-4-0.
(lb) - Max Horz 20=-47(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 20=-2330(LC 39), 11=-2446(LC 42), 19=-2263(LC 42), 12=-2310(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 20=2536(LC 60), 11=2509(LC 59), 19=2624(LC 59), 18=474(LC 1), 17=438(LC 1), 16=447(LC 1), 15=445(LC 1), 14=444(LC 1), 13=461(LC 32), 12=2639(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-2406/2400, 1-2=-2003/2005, 2-3=-1669/1671, 3-4=-1266/1271, 4-5=-869/871, 5-6=-469/471, 6-7=-354/356, 7-8=-751/756, 8-9=-1154/1156, 9-10=-1368/1370, 10-11=-2487/2487
BOT CHORD	19-20=-434/440, 18-19=-1684/1688, 17-18=-1284/1288, 16-17=-884/888, 15-16=-484/488, 14-15=-368/372, 13-14=-768/772, 12-13=-1168/1172, 11-12=-256/259
WEBS	1-19=-3211/3211, 10-12=-2925/2925

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 20=2330, 11=2446, 19=2263, 12=2310.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-4-0 for 200.0 plf.

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652785
PRYOR-B1RB	G11	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-12 from the left end to 16-7-0 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 275 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-10=-70, 11-20=-20
   Concentrated Loads (lb)
   Vert: 20=-275(F) 19=-265(F) 21=-265(F) 22=-265(F) 23=-265(F) 24=-265(F) 25=-265(F) 26=-265(F) 27=-265(F) 28=-269(F)

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G11A	GABLE	1	1	I51652786
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:17 2022 Page 1
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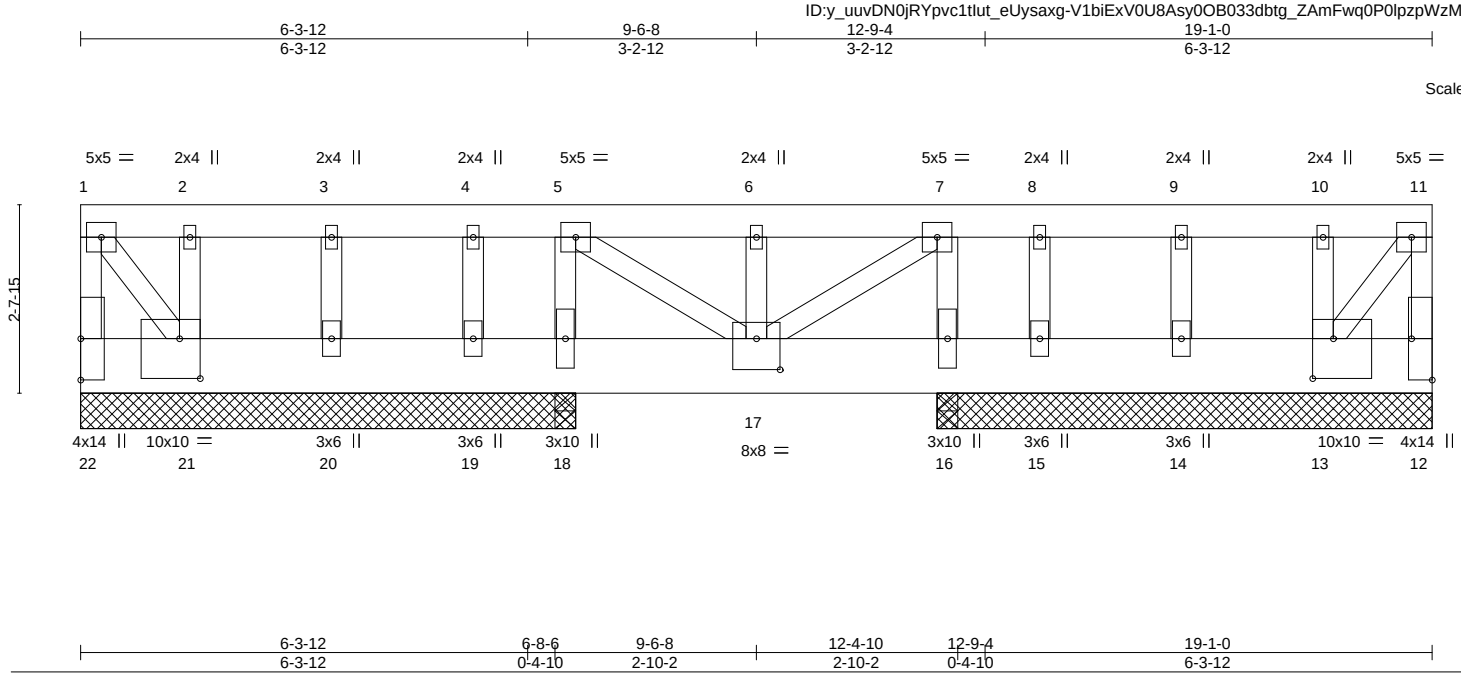

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [13:0-3-8,0-6-12], [17:0-4-0,0-5-4], [21:0-3-8,0-6-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	17	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-11-14.
(lb) - Max Horz 22=-145(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 20, 14 except 22=-1080(LC 43), 12=-1049(LC 44), 18=-635(LC 39), 16=-634(LC 42), 19=-1258(LC 63), 21=-1009(LC 42), 15=-1258(LC 64), 13=-986(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 19, 15 except 22=1044(LC 42), 12=1021(LC 39), 18=4336(LC 64), 18=3725(LC 1), 16=4341(LC 63), 16=3725(LC 1), 20=384(LC 63), 21=1117(LC 59), 14=384(LC 64), 13=1101(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-1065/1109, 1-2=-707/741, 2-3=-444/482, 3-4=-366/399, 4-5=-626/637, 5-6=-1133/701, 6-7=-1126/691, 7-8=-657/664, 8-9=-397/430, 9-10=-438/481, 10-11=-716/750, 11-12=-1020/1069
BOT CHORD	21-22=-537/517, 20-21=-373/329, 19-20=-919/840, 18-19=-1274/1230, 17-18=-1274/1230, 16-17=-1174/1129, 15-16=-1174/1129, 14-15=-818/761, 13-14=-391/346, 12-13=-396/394
WEBS	5-18=-1442/1078, 7-16=-1456/1093, 5-17=-1733/2244, 7-17=-1760/2271, 1-21=-1405/1350, 11-13=-1350/1295

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 14 except (jt=lb) 22=1080, 12=1049, 18=635, 16=634, 19=1258, 21=1009, 15=1258, 13=986.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-11-14, 12-1-2 to 19-1-0 for 273.0 plf.

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G11A	GABLE	1	1	I51652786
					Job Reference (optional)

NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 18-22=-20, 16-18=-866(F=-846), 12-16=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G12	GABLE	1	1	I51652787
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:19 2022 Page 1
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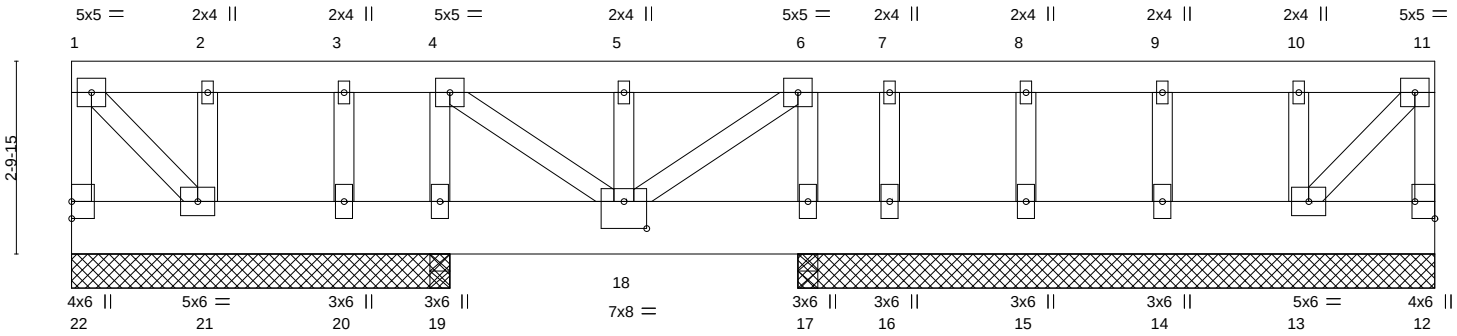

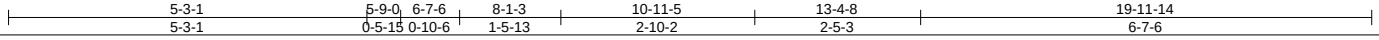

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [18:0-4-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.01	18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	18	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 167 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22,12-13.

REACTIONS. All bearings 9-4-1 except (jt=length) 22=5-6-9, 19=5-6-9, 19=5-6-9, 20=5-6-9, 21=5-6-9.
(lb) - Max Horz 22=47(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 22, 12 except 20=-893(LC 28), 16=-1067(LC 28)
Max Grav All reactions 250 lb or less at joint(s) 22, 12, 14 except 19=3118(LC 1), 19=3118(LC 1), 17=3300(LC 28), 17=3294(LC 1), 21=427(LC 1), 15=333(LC 1), 13=270(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-589/171, 5-6=-589/171
WEBS 4-19=-758/263, 6-17=-743/257, 4-18=-249/837, 6-18=-248/838

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 12 except (jt=lb) 20=893, 16=1067.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-11=-70, 19-22=-20, 17-19=-738(F=-718), 12-17=-20

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G13	GABLE	1	1	I51652788
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:21 2022 Page 1
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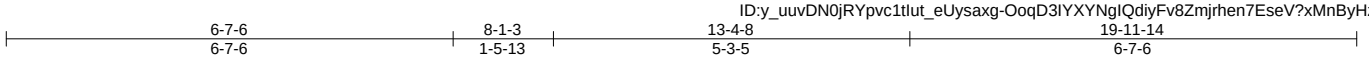

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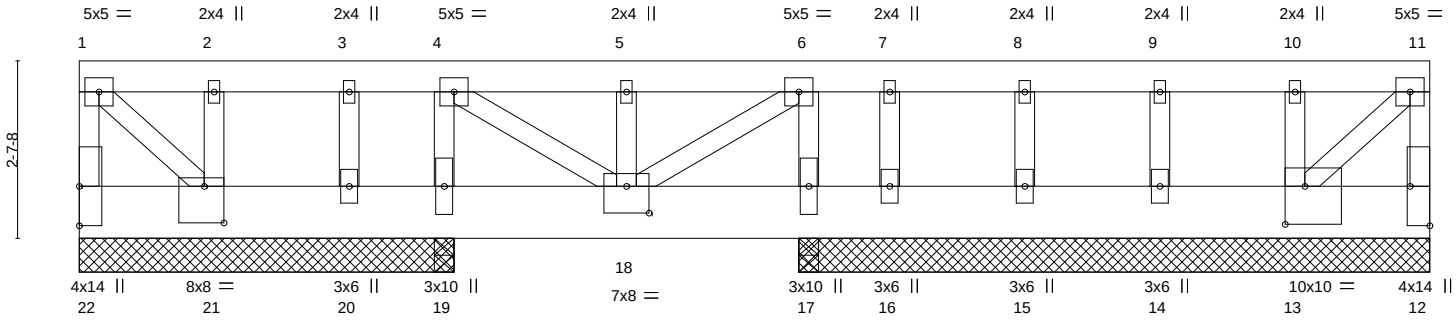

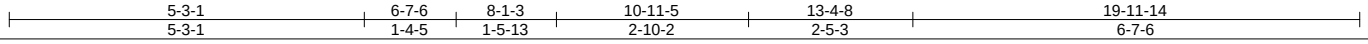

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [13:0-3-8,0-6-12], [18:0-4-0,0-4-12], [21:0-3-8,0-6-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	18	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 163 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-4-1 except (jt=length) 22=5-6-9, 19=5-6-9, 19=5-6-9, 20=5-6-9, 21=5-6-9.
(lb) - Max Horz 22=141(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 15, 14 except 22=-897(LC 43), 12=-1108(LC 44), 19=-617(LC 39), 17=-537(LC 42), 20=-1014(LC 63), 21=-825(LC 42), 16=-1276(LC 64), 13=-1061(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 16, 14 except 22=840(LC 42), 12=1090(LC 39), 19=3920(LC 64), 19=3345(LC 1), 17=4068(LC 63), 17=3538(LC 1), 21=1110(LC 43), 15=350(LC 1), 13=1223(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-849/890, 1-2=-754/795, 2-3=-381/422, 3-4=-275/335, 4-5=-1296/897, 5-6=-890/440, 6-7=-828/840, 7-8=-589/625, 8-9=-272/308, 9-10=-645/682, 10-11=-1005/1041, 11-12=-1081/1120
BOT CHORD	21-22=-634/651, 20-21=-435/347, 19-20=-813/759, 18-19=-813/759, 17-18=-1480/1433, 16-17=-1480/1433, 15-16=-1158/1098, 14-15=-621/574, 13-14=-576/529, 12-13=-514/513
WEBS	4-19=-1327/984, 6-17=-1337/999, 4-18=-1553/2036, 6-18=-1649/2125, 1-21=-1263/1205, 11-13=-1568/1519

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14 except (jt=lb) 22=897, 12=1108, 19=617, 17=537, 20=1014, 21=825, 16=1276, 13=1061.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 5-6-9, 10-7-13 to 19-11-14 for 268.6 plf.

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G13	GABLE	1	1	I51652788
					Job Reference (optional)

NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 19-22=-20, 17-19=-791(F=-771), 12-17=-20

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G14	Roof Special Girder	1	1	I51652789
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:22 2022 Page 1
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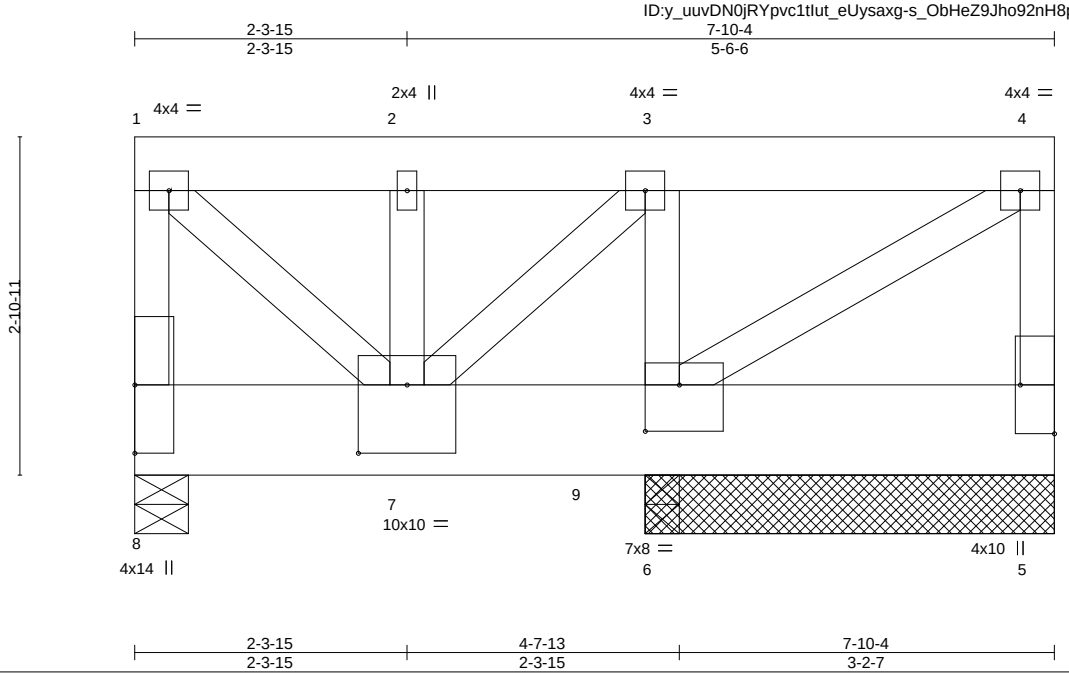

Plate Offsets (X,Y)-- [5:Edge,0-3-8], [6:0-3-8,0-4-12], [7:0-5-0,0-7-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.01	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 72 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 3-5-15 except (jt=length) 8=0-5-8.
(lb) - Max Horz 8=-49(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-408(LC 39), 5=-522(LC 44)
Max Grav All reactions 250 lb or less at joint(s) except 8=2074(LC 64), 5=427(LC 39), 6=2460(LC 63), 6=2443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1016/818, 1-2=-888/698, 2-3=-892/702, 3-4=-552/570, 4-5=-455/493
BOT CHORD 6-7=-973/940, 5-6=-1293/1296
WEBS 3-6=-1221/1022, 1-7=-1026/1304, 3-7=-1113/1414, 4-6=-771/737

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 408 lb uplift at joint 8 and 522 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 3-10-13 to 7-10-4 for 397.4 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-8=-795(F=-775), 5-6=-20

May 4,2022

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G15	GABLE	1	1	I51652790
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:24 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-oNWMiKaPrI3sH5QXw1hGNMTAv?4I3y7RdK?rZczM7e1

6-9-8 | 11-10-12 | 13-8-12 | 20-6-5
6-9-8 | 5-1-4 | 1-10-1 | 6-9-8

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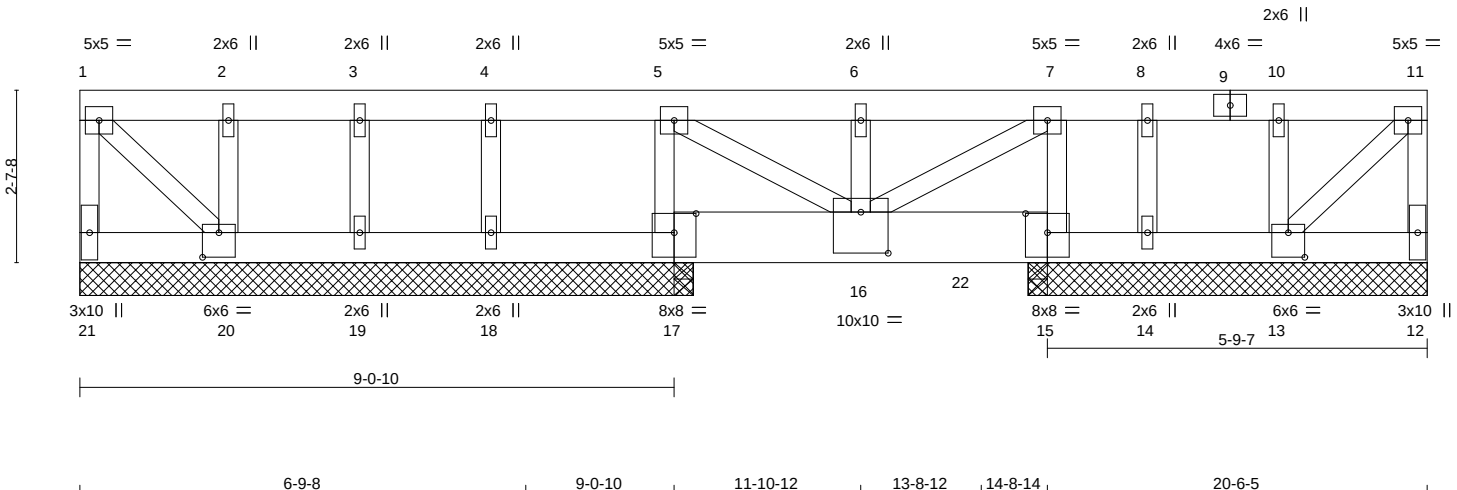

6-9-8 | 9-0-10 | 11-10-12 | 13-8-12 | 14-8-14 | 20-6-5
6-9-8 | 2-3-2 | 2-10-2 | 1-10-1 | 1-0-1 | 5-9-7

Plate Offsets (X,Y)-- [13:0-3-0,0-4-8], [15:0-4-0,0-3-8], [16:0-5-0,0-7-8], [17:0-4-0,0-3-8], [20:0-3-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.02	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.03	16	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 146 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
15-17: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-4-2 except (jt=length) 12=6-0-15, 15=6-0-15, 15=6-0-15, 14=6-0-15, 13=6-0-15.
(lb) - Max Horz 21=-134(LC 43)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 21=-1181(LC 43), 12=-947(LC 44), 17=-573(LC 39), 15=-527(LC 42), 18=-194(LC 63), 20=-1087(LC 42), 14=-588(LC 64), 13=-851(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 18, 14 except 21=1110(LC 42), 12=850(LC 39), 17=3666(LC 64), 17=3138(LC 1), 15=4024(LC 63), 15=3502(LC 1), 19=274(LC 1), 20=1277(LC 43), 13=1138(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1115/1189, 1-2=-1076/1153, 2-3=-656/733, 3-4=-296/372, 4-5=-712/789, 5-6=-1494/725, 6-7=-1789/1118, 7-8=-300/417, 8-10=-431/520, 10-11=-852/940, 11-12=-854/940
BOT CHORD 20-21=-653/655, 19-20=-575/431, 18-19=-649/546, 17-18=-1343/1254, 16-17=-1473/1335, 15-16=-1146/1012, 14-15=-682/602, 13-14=-423/334, 12-13=-533/530
WEBS 5-17=-1815/1146, 7-15=-1792/1092, 5-16=-1829/2735, 7-16=-1835/2758, 1-20=-1715/1610, 11-13=-1356/1235

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 21=1181, 12=947, 17=573, 15=527, 18=194, 20=1087, 14=588, 13=851.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-2, 13-5-6 to 20-6-5 for 250.0 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G15	GABLE	1	1	I51652790
					Job Reference (optional)

NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 17-21=-20, 15-17=-920(F=-900), 12-15=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G16	GABLE	1	1	I51652791
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:26 2022 Page 1
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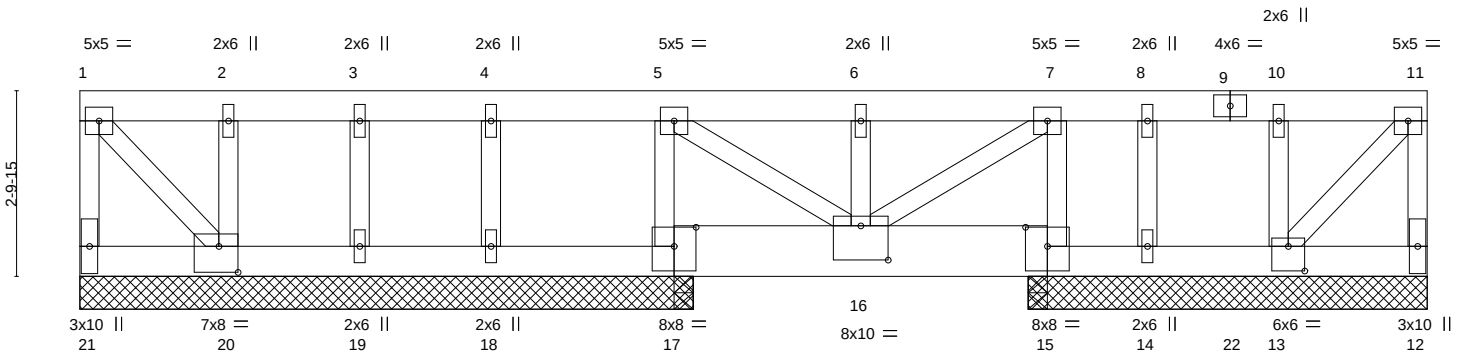
6-9-8	11-10-12	13-8-13	20-6-5
6-9-8	5-1-4	1-10-1	6-9-8

Scale = 1:35.1



6-9-8	9-0-10	11-10-12	13-8-13	14-8-14	20-6-5
6-9-8	2-3-2	2-10-2	1-10-1	1-0-1	5-9-7

Plate Offsets (X,Y)-- [13:0-3-0,0-4-8], [15:0-4-0,0-3-8], [16:0-5-0,0-6-4], [17:0-4-0,0-3-8], [20:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.01	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.01	15-16	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	-0.01	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except*
	15-17: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-4-2 except (jt=length) 12=6-0-15, 15=6-0-15, 15=6-0-15, 14=6-0-15, 13=6-0-15.
(lb) - Max Horz 21=-225(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 14 except 21=-1237(LC 43), 12=-966(LC 44), 17=-738(LC 39), 15=-611(LC 42), 20=-1194(LC 42), 13=-897(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 18, 19 except 21=1221(LC 42), 12=907(LC 39), 17=1556(LC 64), 17=1040(LC 1), 15=3853(LC 63), 15=3282(LC 1), 20=1343(LC 59), 14=1490(LC 63), 13=1368(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1203/1238, 1-2=-1062/1093, 2-3=-657/700, 3-4=-277/312, 4-5=-684/719, 5-6=-874/497, 6-7=-1245/881, 7-8=-325/344, 8-10=-386/426, 10-11=-807/847, 11-12=-886/932
BOT CHORD	20-21=-782/784, 19-20=-416/334, 18-19=-742/743, 17-18=-1530/1487, 16-17=-1609/1536, 15-16=-858/771, 14-15=-731/709, 13-14=-353/300, 12-13=-571/567
WEBS	5-17=-1371/1064, 7-15=-1323/1009, 5-16=-1628/2074, 7-16=-1655/2109, 1-20=-1716/1667, 11-13=-1282/1227

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19, 14 except (jt=lb) 21=1237, 12=966, 17=738, 15=611, 20=1194, 13=897.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-2, 14-5-6 to 20-6-5 for 266.2 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	G16	GABLE	1	1	I51652791
					Job Reference (optional)

NOTES-

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 16-21=-20, 16-22=-920(F=-900), 12-22=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J1GE	Jack-Closed Structural Gable	3	1	I51652792
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:37 2022 Page 1
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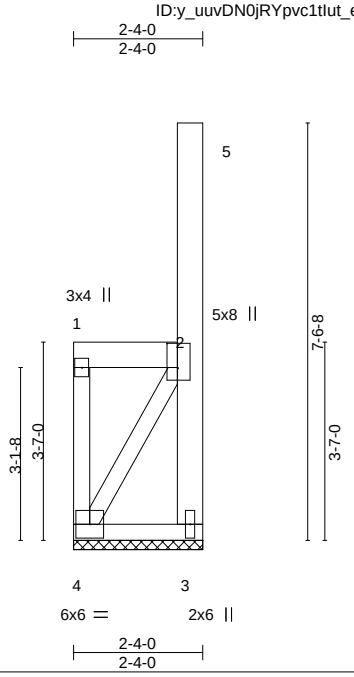

Plate Offsets (X,Y)-- [2:0-5-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-219(LC 11)
Max Uplift 4=-458(LC 11), 3=-458(LC 12)
Max Grav 4=500(LC 14), 3=500(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-731/1347
WEBS 2-4=-1153/754

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=458, 3=458.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J2	Roof Special	3	1	I51652793
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:38 2022 Page 1
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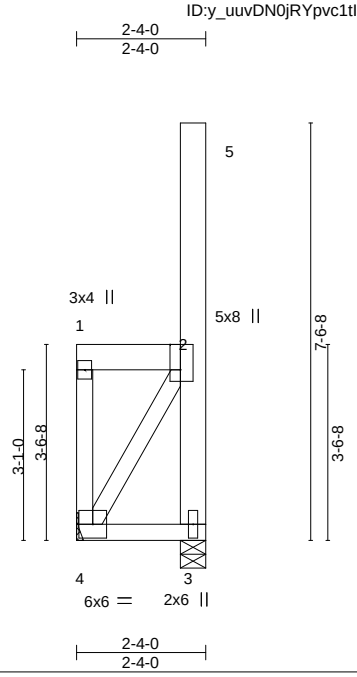

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-219(LC 11)
Max Uplift 4=-459(LC 11), 3=-459(LC 12)
Max Grav 4=501(LC 14), 3=501(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-631/1332
WEBS 2-4=-1135/660

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=459, 3=459.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J3	Roof Special	3	1	I51652794
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:46 2022 Page 1
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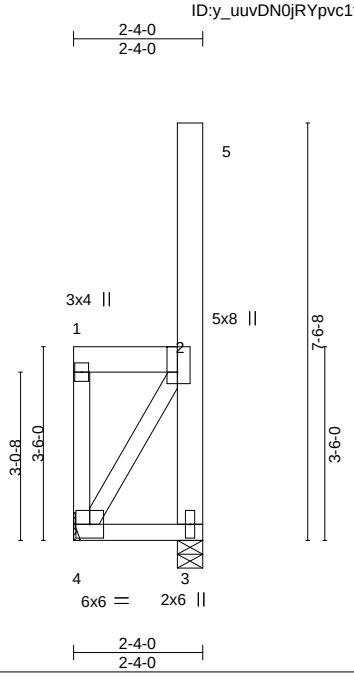

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-220(LC 11)
Max Uplift 4=-460(LC 11), 3=-460(LC 12)
Max Grav 4=502(LC 14), 3=502(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-632/1336
WEBS 2-4=-1138/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=460, 3=460.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J4	Roof Special	2	1	I51652795
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:58 2022 Page 1
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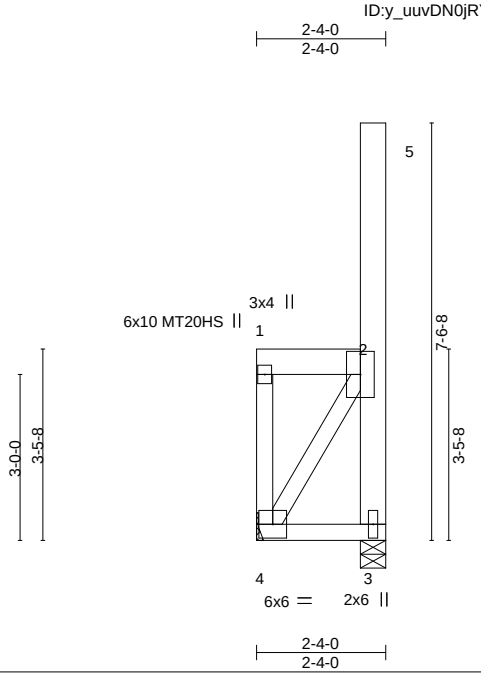

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=220(LC 12)
Max Uplift 4=-461(LC 11), 3=-461(LC 12)
Max Grav 4=503(LC 14), 3=503(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-632/1339
WEBS 2-4=-1141/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=461, 3=461.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J5	Roof Special	1	1	I51652796
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:08 2022 Page 1
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1-10-2 0-5-14

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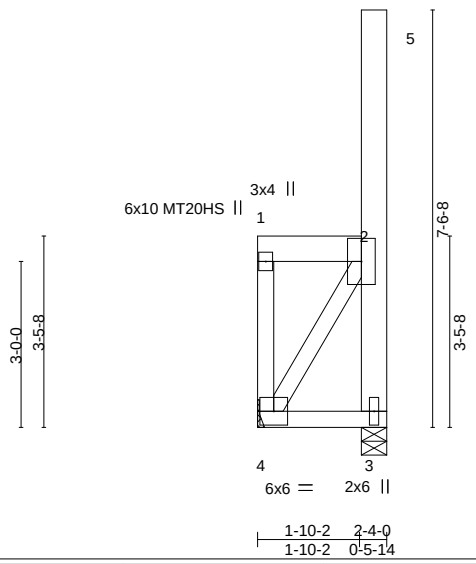

1-10-2 2-4-0
1-10-2 0-5-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=220(LC 12)
Max Uplift 4=-461(LC 11), 3=-461(LC 12)
Max Grav 4=503(LC 14), 3=503(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-632/1339
WEBS 2-4=-1141/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=461, 3=461.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J6	Roof Special	15	1	I51652797
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Fri Apr 29 13:03:22 2022 Page 1

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2-4-0

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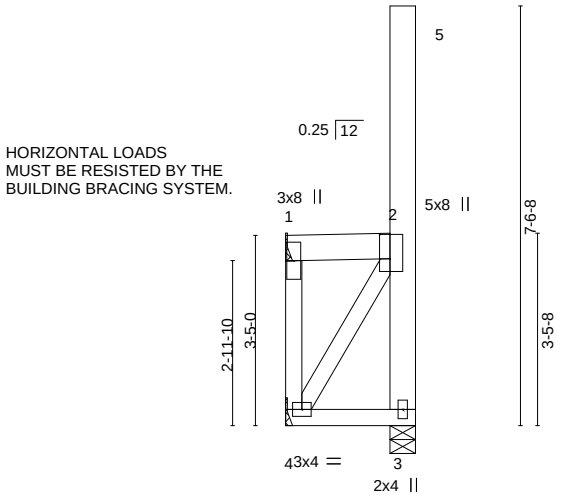

HORIZONTAL LOADS
MUST BE RESISTED BY THE
BUILDING BRACING SYSTEM.

PROVIDE ANCHORAGE, DESIGNED BY OTHERS,
AT BEARINGS TO RESIST MAX. UPLIFT
AND MAX HORZ. REACTIONS
SPECIFIED BELOW.

Plate Offsets (X,Y)-- [2:0-5-4,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Sheathed or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 1=Mechanical, 3=0-5-8
Max Horz 4=57(LC 20), 1=-235(LC 13)
Max Uplift 4=-97(LC 11), 3=-89(LC 12)
Max Grav 4=186(LC 25), 3=169(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-607/323, 2-3=-178/336

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearings are assumed to be: , Joint 4 SYP No.2 crushing capacity of 565 psi, Joint 3 SYP No.2 crushing capacity of 565 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 4 and 89 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-123
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-39-to-2=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-74-to-2=-154
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-42-to-2=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 1-2=-9, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-2=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-57-to-2=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 1-2=-9, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 1-2=-3, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-57-to-2=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J6GE	Jack-Closed Structural Gable	1	1	I51652798
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:11 2022 Page 1
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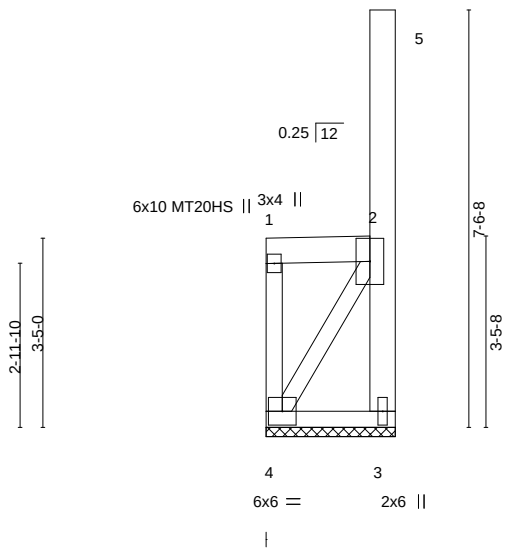

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=220(LC 12)
Max Uplift 4=-459(LC 11), 3=-454(LC 12)
Max Grav 4=510(LC 14), 3=501(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-725/1358
WEBS 2-4=-1165/747

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Gable requires continuous bottom chord bearing.
10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
11) Gable studs spaced at 2-0-0 oc.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=459, 3=454.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-63-to-2=-123

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-39-to-2=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-74-to-2=-154

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-42-to-2=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 1-2=-9, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 1-2=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-57-to-2=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 1-2=-9, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 1-2=-3, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-57-to-2=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J7	Jack-Closed Structural Gable	2	1	I51652799
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:12 2022 Page 1
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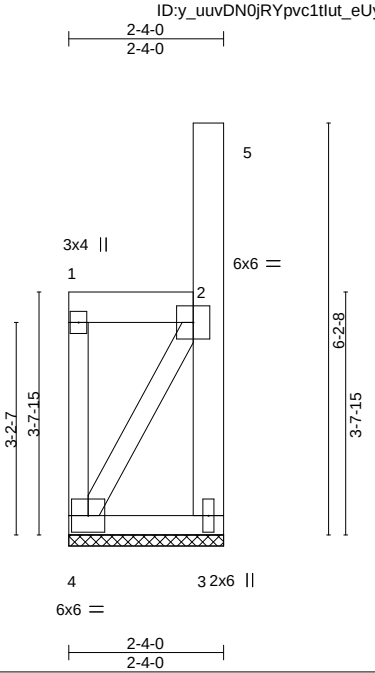

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-169(LC 11)
Max Uplift 4=-291(LC 11), 3=-291(LC 12)
Max Grav 4=332(LC 14), 3=332(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-465/877
WEBS 2-4=-787/549

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=291, 3=291.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J8	Roof Special	2	1	I51652800
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:13 2022 Page 1
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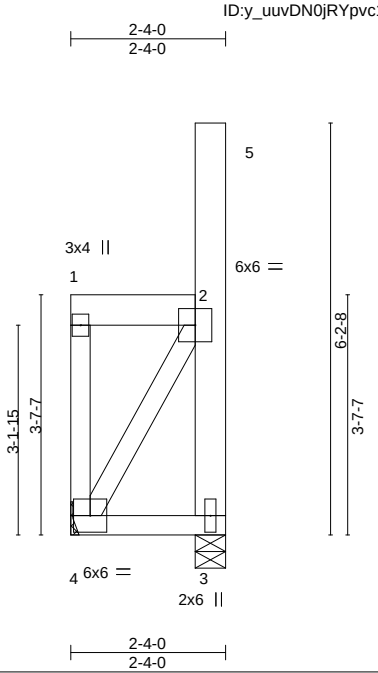

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-170(LC 11)
Max Uplift 4=-292(LC 11), 3=-292(LC 12)
Max Grav 4=333(LC 14), 3=333(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/861
WEBS 2-4=-768/480

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=292, 3=292.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J9	Roof Special	1	1	I51652801
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:13 2022 Page 1
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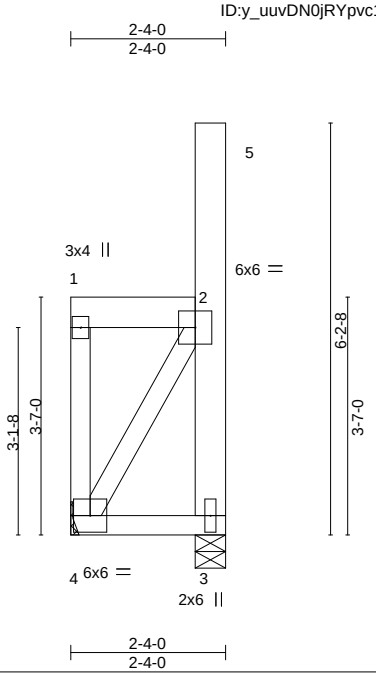

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-170(LC 11)
Max Uplift 4=-293(LC 11), 3=-293(LC 12)
Max Grav 4=334(LC 14), 3=334(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/864
WEBS 2-4=-771/479

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=293, 3=293.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J10	Roof Special	2	1	I51652802
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:28 2022 Page 1
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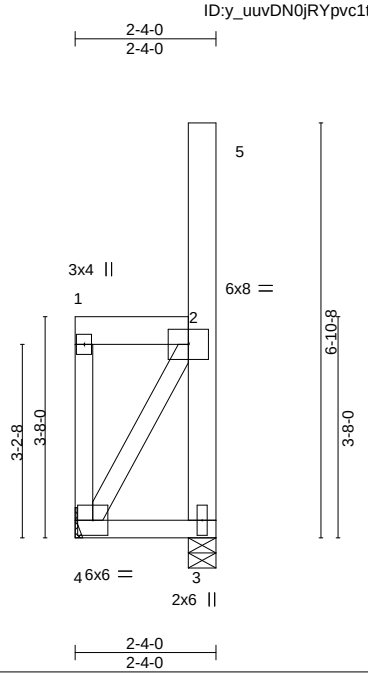

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-193(LC 11)
Max Uplift 4=-369(LC 11), 3=-369(LC 12)
Max Grav 4=411(LC 14), 3=411(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-509/1077
WEBS 2-4=-941/568

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=369, 3=369.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J10GE	Jack-Closed Structural Gable	2	1	I51652803
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:28 2022 Page 1
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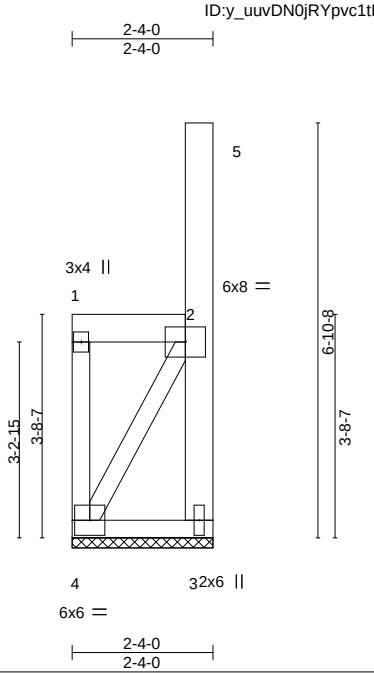

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=193(LC 12)
Max Uplift 4=-368(LC 11), 3=-368(LC 12)
Max Grav 4=410(LC 14), 3=410(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-591/1093
WEBS 2-4=-960/650

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=368, 3=368.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J11	Roof Special	1	1	I51652804
					Job Reference (optional)

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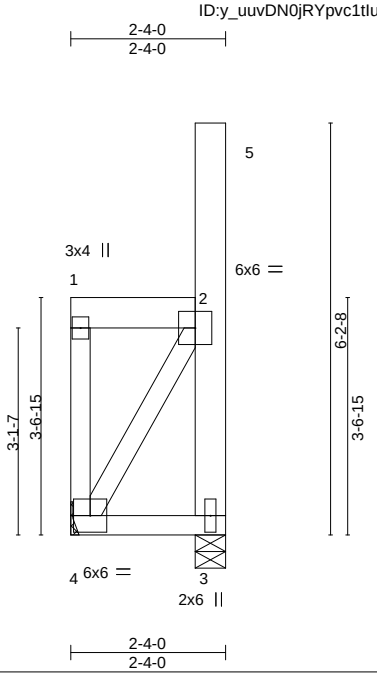

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-170(LC 11)
Max Uplift 4=-293(LC 11), 3=-293(LC 12)
Max Grav 4=334(LC 14), 3=334(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/865
WEBS 2-4=-771/479

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=293, 3=293.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J12	Roof Special	1	1	I51652805
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:30 2022 Page 1
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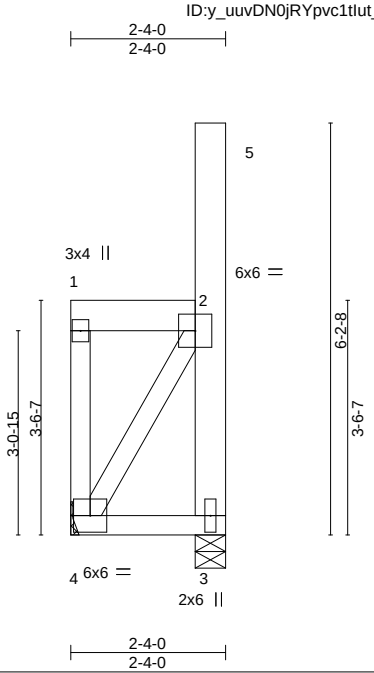

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=171(LC 12)
Max Uplift 4=-294(LC 11), 3=-294(LC 12)
Max Grav 4=335(LC 14), 3=335(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/868
WEBS 2-4=-774/479

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=294, 3=294.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J13	Roof Special	1	1	I51652806
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:30 2022 Page 1
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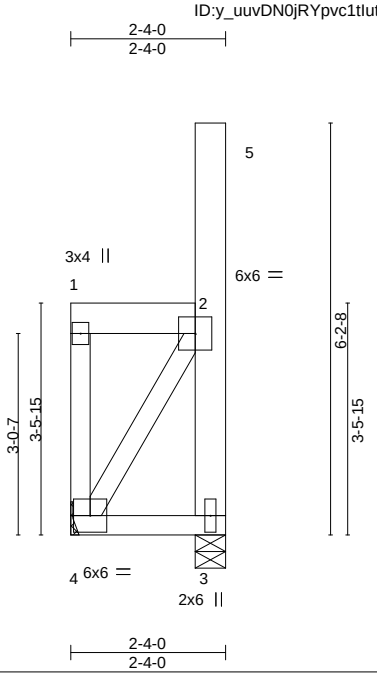

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-171(LC 11)
Max Uplift 4=-295(LC 11), 3=-295(LC 12)
Max Grav 4=336(LC 14), 3=336(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/872
WEBS 2-4=-777/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=295, 3=295.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J14	Roof Special	1	1	I51652807
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:31 2022 Page 1
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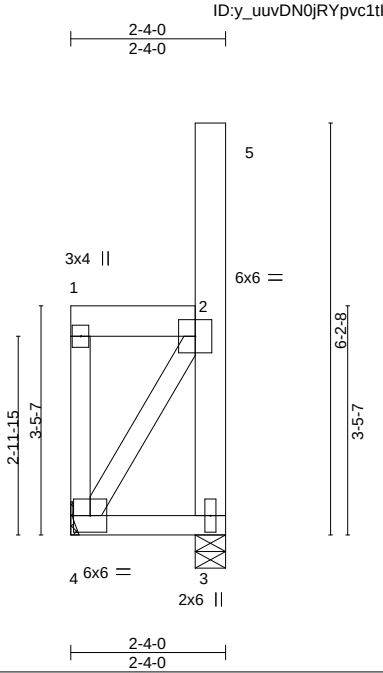

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-172(LC 11)
Max Uplift 4=-296(LC 11), 3=-296(LC 12)
Max Grav 4=337(LC 14), 3=337(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/875
WEBS 2-4=-780/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=296, 3=296.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J15	Roof Special	2	1	I51652808
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:32 2022 Page 1
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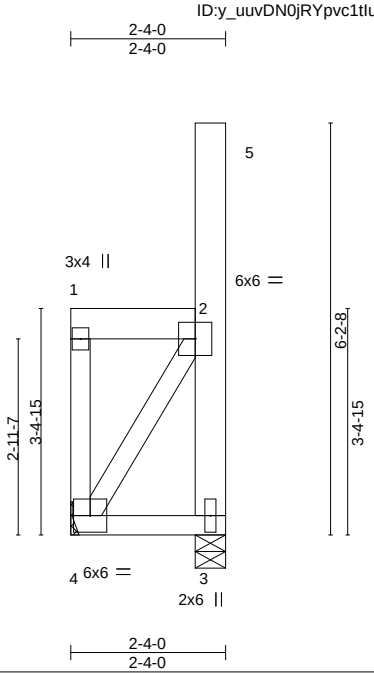

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=338(LC 14), 3=338(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/878
WEBS 2-4=-782/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=297, 3=297.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J15GE	Jack-Closed Structural Gable	1	1	I51652809
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:32 2022 Page 1
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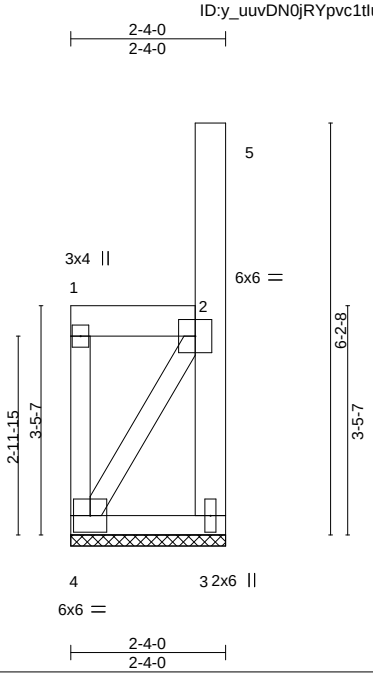

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-172(LC 11)
Max Uplift 4=-296(LC 11), 3=-296(LC 12)
Max Grav 4=337(LC 14), 3=337(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-466/892
WEBS 2-4=-799/546

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=296, 3=296.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J16	Roof Special	4	1	I51652810
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:33 2022 Page 1
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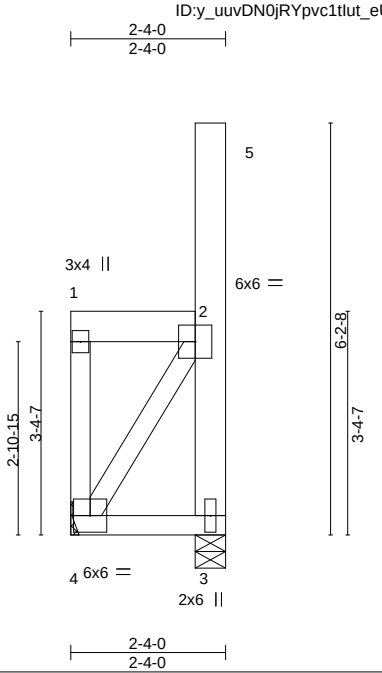

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=339(LC 14), 3=339(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/882
WEBS 2-4=-785/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=297, 3=297.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J16GE	Jack-Closed Structural Gable	2	1	I51652811
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:34 2022 Page 1
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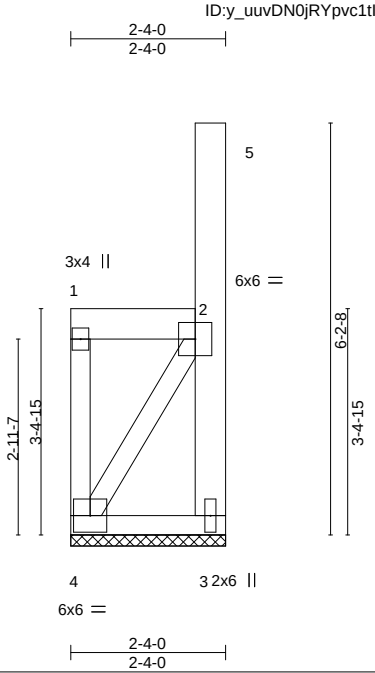

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=338(LC 14), 3=338(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-466/895
WEBS 2-4=-801/546

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=297, 3=297.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J17	Roof Special	1	1	I51652812
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:35 2022 Page 1
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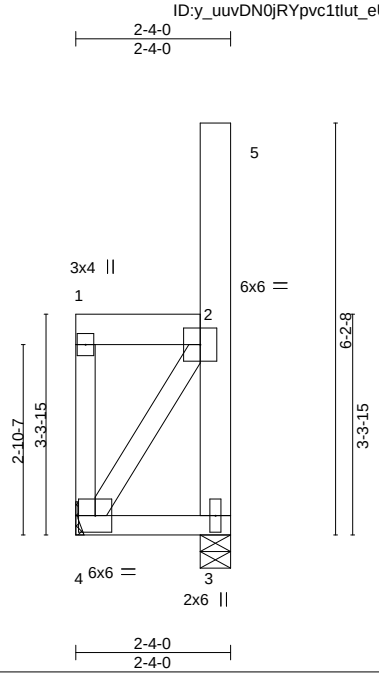

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=174(LC 12)
Max Uplift 4=-298(LC 11), 3=-298(LC 12)
Max Grav 4=340(LC 14), 3=340(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/885
WEBS 2-4=-789/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=298, 3=298.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J17GE	Jack-Closed Structural Gable	1	1	I51652813
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:35 2022 Page 1
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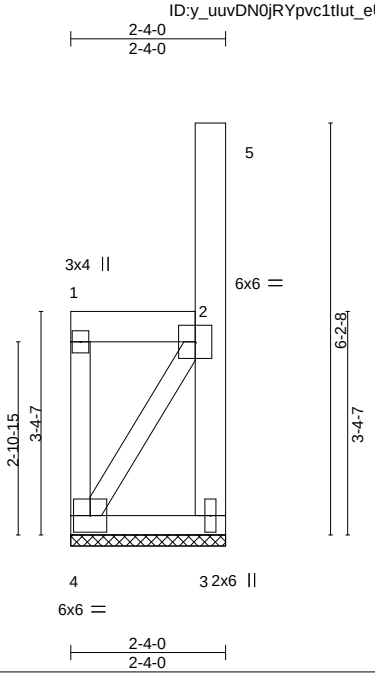

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=339(LC 14), 3=339(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-466/898
WEBS 2-4=-804/546

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=297, 3=297.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J18	Roof Special	1	1	I51652814
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:36 2022 Page 1
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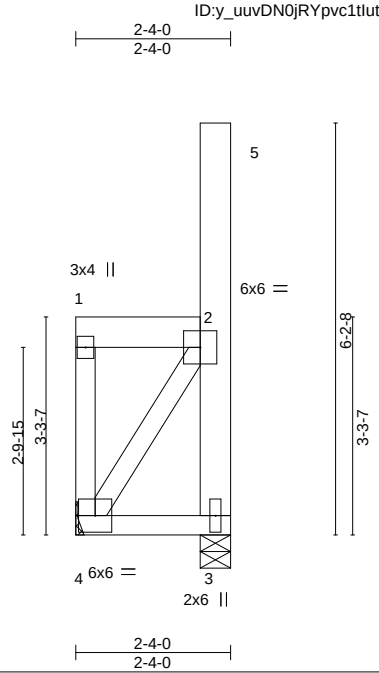

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-174(LC 11)
Max Uplift 4=-299(LC 11), 3=-299(LC 12)
Max Grav 4=341(LC 14), 3=341(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/888
WEBS 2-4=-792/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=299, 3=299.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J19	Roof Special	1	1	I51652815
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:37 2022 Page 1
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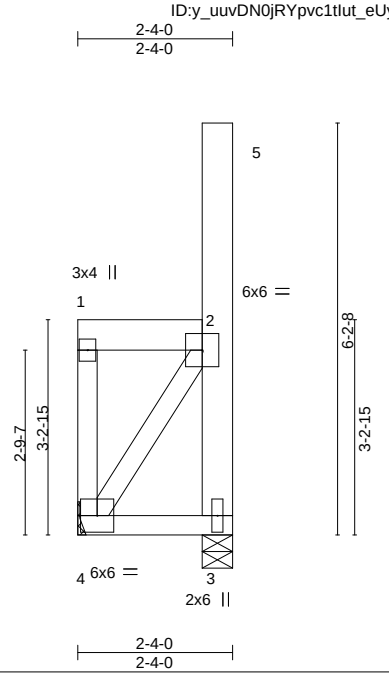

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=175(LC 12)
Max Uplift 4=-300(LC 11), 3=-300(LC 12)
Max Grav 4=342(LC 14), 3=342(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/891
WEBS 2-4=-795/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=300, 3=300.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J20	Roof Special	1	1	I51652816
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:39 2022 Page 1
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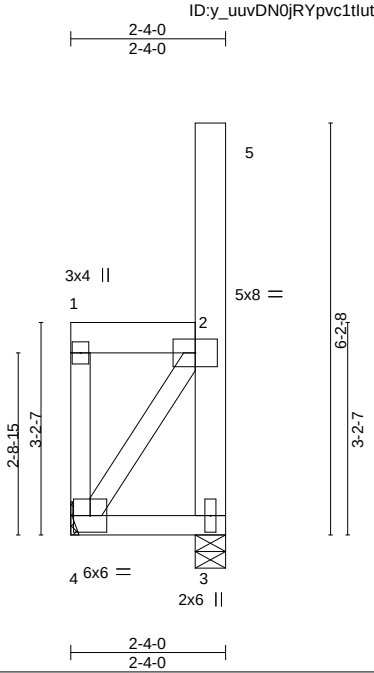

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-176(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=342(LC 14), 3=342(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/895
WEBS 2-4=-798/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J21	Roof Special	1	1	I51652817
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:39 2022 Page 1
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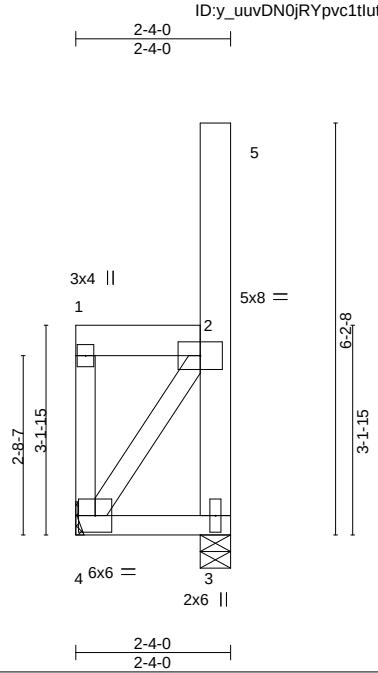

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=176(LC 14)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=343(LC 14), 3=343(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/898
WEBS 2-4=-802/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=302, 3=302.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J22	Roof Special	5	1	I51652818
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:40 2022 Page 1
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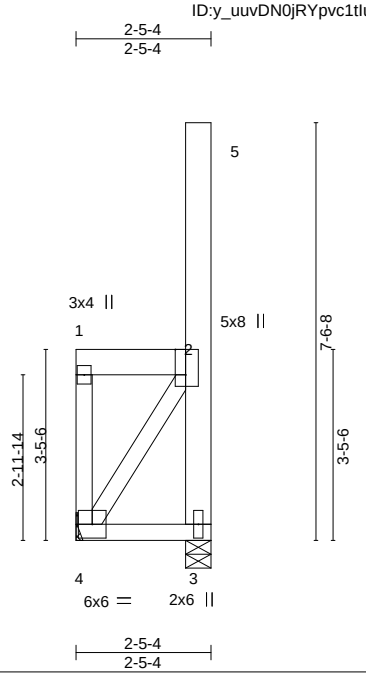

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-221(LC 11)
Max Uplift 4=-438(LC 11), 3=-438(LC 12)
Max Grav 4=482(LC 14), 3=482(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-593/1279
WEBS 2-4=-1108/641

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=438, 3=438.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J22GE	Jack-Closed Structural Gable	5	1	I51652819
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:41 2022 Page 1
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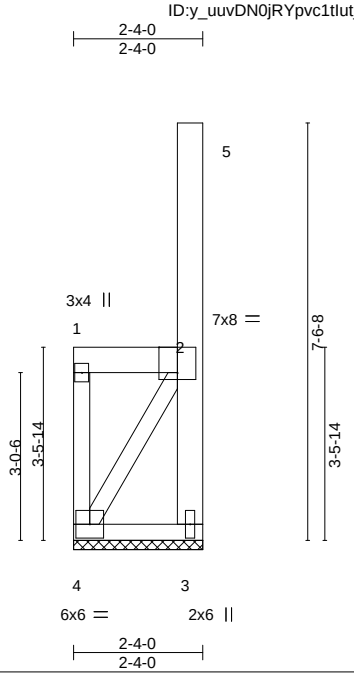

Plate Offsets (X,Y)-- [2:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 34 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=220(LC 12)
Max Uplift 4=-461(LC 11), 3=-461(LC 12)
Max Grav 4=502(LC 14), 3=502(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-731/1353
WEBS 2-4=-1158/753

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=461, 3=461.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J23	Roof Special	4	1	I51652820
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:41 2022 Page 1
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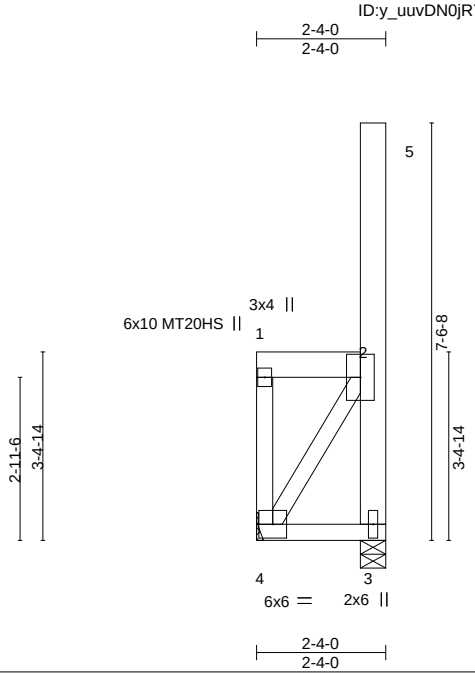

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-221(LC 11)
Max Uplift 4=-463(LC 11), 3=-463(LC 12)
Max Grav 4=504(LC 14), 3=504(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-253/207, 2-3=-632/1343
WEBS 2-4=-1145/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=463, 3=463.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J24	Roof Special	1	1	I51652821
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:42 2022 Page 1
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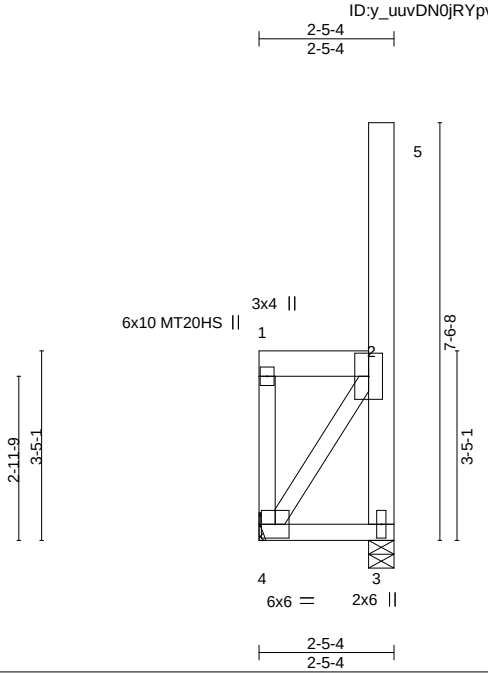

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=221(LC 12)
Max Uplift 4=-439(LC 11), 3=-439(LC 12)
Max Grav 4=482(LC 14), 3=482(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-593/1281
WEBS 2-4=-1110/641

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=439, 3=439.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J25	Roof Special	4	1	I51652822
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:43 2022 Page 1
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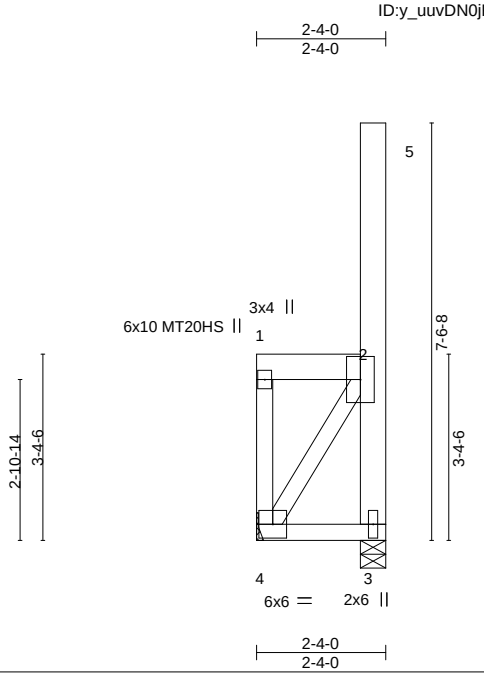

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-222(LC 11)
Max Uplift 4=-463(LC 11), 3=-463(LC 12)
Max Grav 4=505(LC 14), 3=505(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-257/209, 2-3=-632/1346
WEBS 2-4=-1148/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=463, 3=463.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J26	Roof Special	2	1	I51652823
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:43 2022 Page 1
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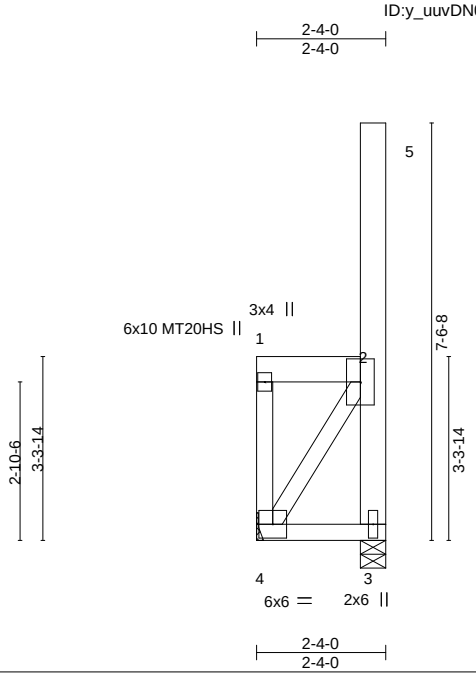

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-222(LC 11)
Max Uplift 4=-464(LC 11), 3=-464(LC 12)
Max Grav 4=506(LC 14), 3=506(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-262/211, 2-3=-632/1350
WEBS 2-4=-1152/659

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=464, 3=464.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J27	Roof Special	2	1	I51652824
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:44 2022 Page 1
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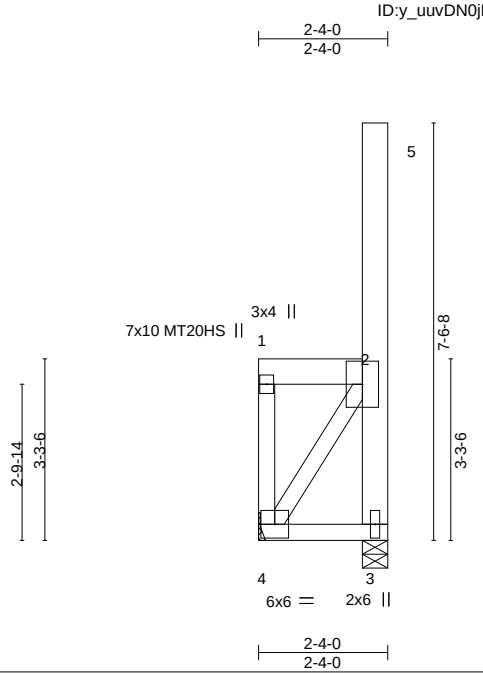

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-223(LC 11)
Max Uplift 4=-465(LC 11), 3=-465(LC 12)
Max Grav 4=507(LC 14), 3=507(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-266/214, 2-3=-632/1353
WEBS 2-4=-1156/660

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=465, 3=465.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J28	Roof Special	2	1	I51652825
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:45 2022 Page 1
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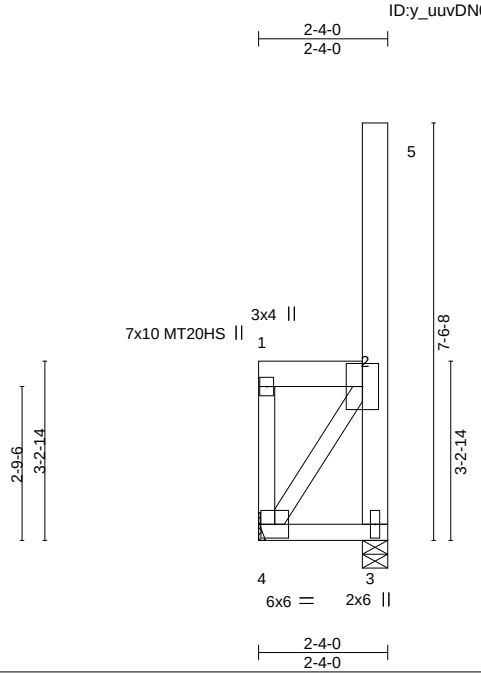

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-224(LC 11)
Max Uplift 4=-466(LC 11), 3=-466(LC 12)
Max Grav 4=508(LC 14), 3=508(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-271/216, 2-3=-632/1356
WEBS 2-4=-1160/660

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=466, 3=466.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J29	Roof Special	2	1	I51652826
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:46 2022 Page 1
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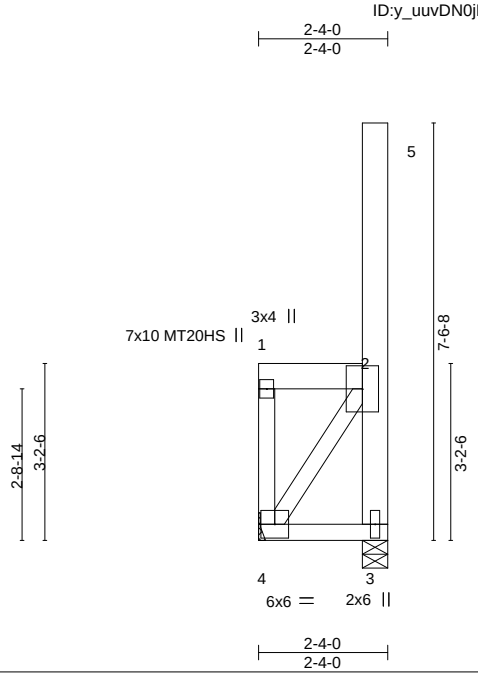

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-224(LC 11)
Max Uplift 4=-467(LC 11), 3=-467(LC 12)
Max Grav 4=508(LC 14), 3=508(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-275/218, 2-3=-632/1360
WEBS 2-4=-1164/660

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=467, 3=467.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J30	Roof Special	2	1	I51652827
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:47 2022 Page 1
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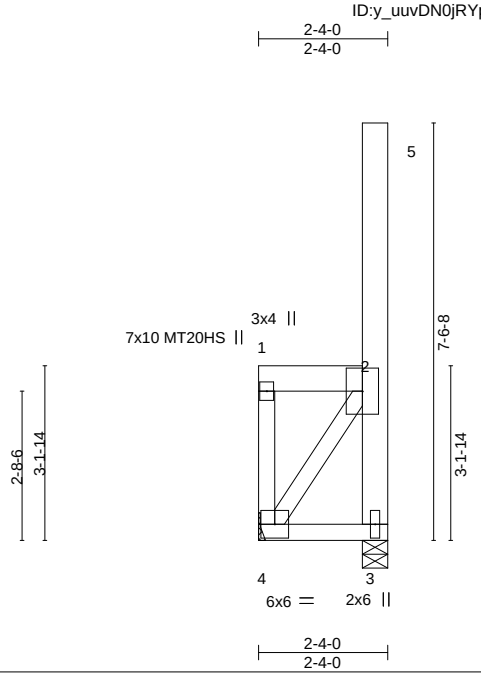

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-225(LC 11)
Max Uplift 4=-468(LC 11), 3=-468(LC 12)
Max Grav 4=509(LC 14), 3=509(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-279/221, 2-3=-633/1363
WEBS 2-4=-1168/661

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=468, 3=468.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J31GE	ROOF SPECIAL	2	1	I51652828
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:48 2022 Page 1
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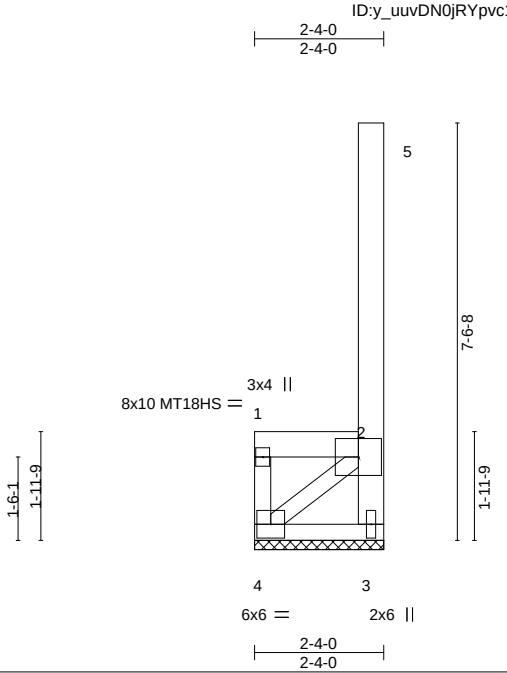

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-242(LC 11)
Max Uplift 4=-487(LC 11), 3=-487(LC 12)
Max Grav 4=529(LC 14), 3=536(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-337/277, 2-3=-768/1436
BOT CHORD 3-4=-346/554
WEBS 2-4=-1539/930

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=487, 3=487.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-230

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-180

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-150

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-150

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-110-to-2=-190

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-110-to-2=-190

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-171

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-171

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-171

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-171

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-230

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J31GEA	ROOF SPECIAL	1	1	I51652829
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:48 2022 Page 1
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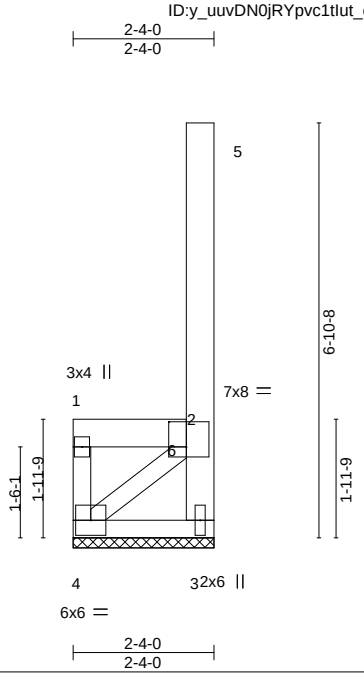

Plate Offsets (X,Y)-- [2:0-3-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=218(LC 12)
Max Uplift 4=-401(LC 11), 3=-405(LC 12)
Max Grav 4=449(LC 25), 3=457(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-254/230, 2-3=-620/1199
BOT CHORD 3-4=-273/425
WEBS 2-4=-1288/787

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=401, 3=405.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-6=-208, 6=-178-to-2=-192

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-6=-163, 6=-133-to-2=-144

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-90-to-6=-133, 6=-103-to-2=-114

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-90-to-6=-133, 6=-103-to-2=-114

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-110-to-6=-168, 6=-138-to-2=-152

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-110-to-6=-168, 6=-138-to-2=-152

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-111-to-6=-155, 6=-125-to-2=-135

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-111-to-6=-155, 6=-125-to-2=-135

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-6=-155, 6=-125-to-2=-135

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-6=-155, 6=-125-to-2=-135

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-6=-208, 6=-178-to-2=-192

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J32	Roof Special	1	1	I51652830
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:49 2022 Page 1
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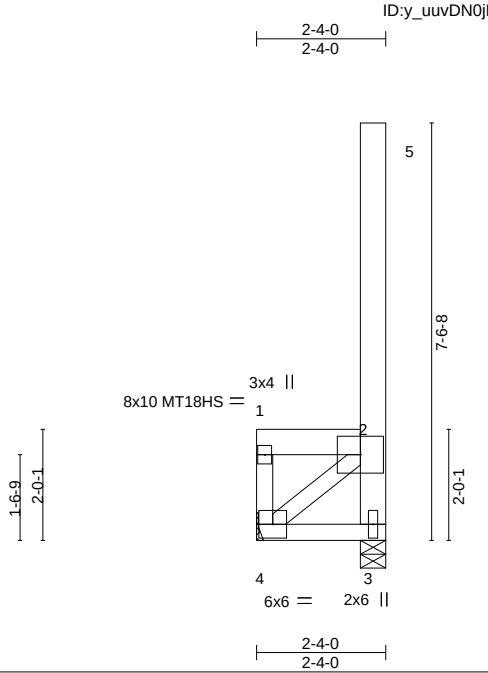

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=241(LC 14)
Max Uplift 4=-487(LC 11), 3=-487(LC 12)
Max Grav 4=528(LC 14), 3=528(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-335/249, 2-3=-674/1430
BOT CHORD 3-4=-291/527
WEBS 2-4=-1510/804

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=487, 3=487.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J32A	Roof Special	1	1	I51652831
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:50 2022 Page 1
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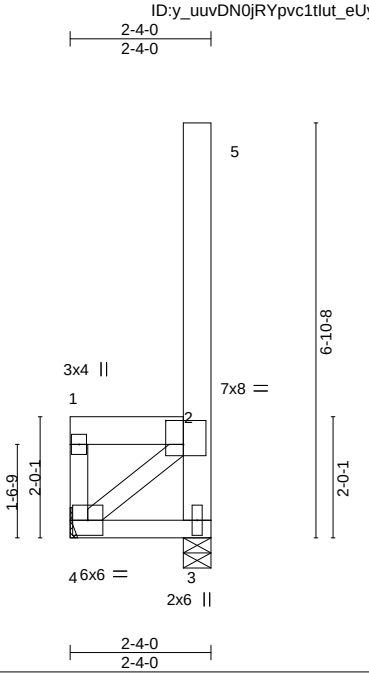

Plate Offsets (X,Y)-- [2:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=217(LC 12)
Max Uplift 4=-399(LC 11), 3=-399(LC 12)
Max Grav 4=441(LC 14), 3=441(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-251/207, 2-3=-551/1185
BOT CHORD 3-4=-229/402
WEBS 2-4=-1258/679

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=399, 3=399.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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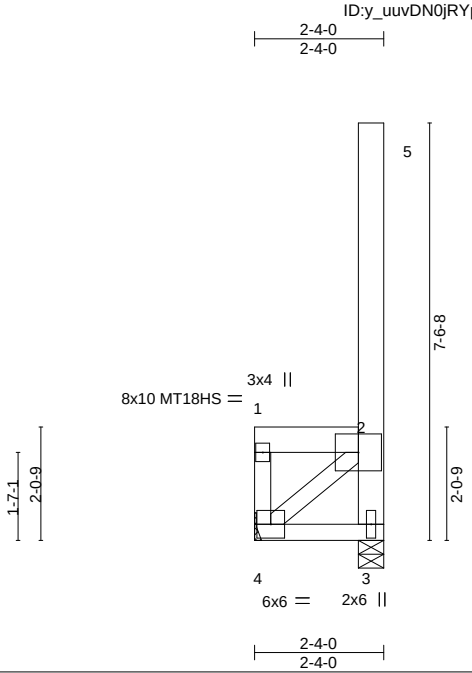
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J33	Roof Special	1	1	I51652832
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:50 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-1N4B9DujjHKAP4QXSV9MRqXU8T2?9qjGbNIDT6zM7dd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-241(LC 13)
Max Uplift 4=-486(LC 11), 3=-486(LC 12)
Max Grav 4=528(LC 14), 3=528(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-333/248, 2-3=-670/1428
BOT CHORD 3-4=-279/501
WEBS 2-4=-1488/794

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=486, 3=486.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J33A	Roof Special	1	1	I51652833
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:51 2022 Page 1
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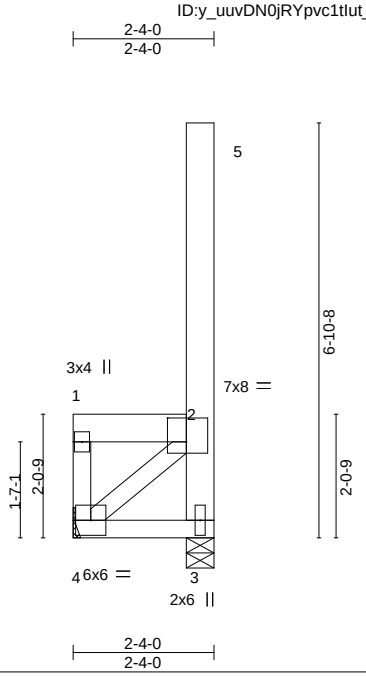

Plate Offsets (X,Y)-- [2:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=216(LC 12)
Max Uplift 4=-399(LC 11), 3=-399(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-548/1183
BOT CHORD 3-4=-219/381
WEBS 2-4=-1240/670

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=399, 3=399.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J34	Roof Special	1	1	I51652834
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:52 2022 Page 1
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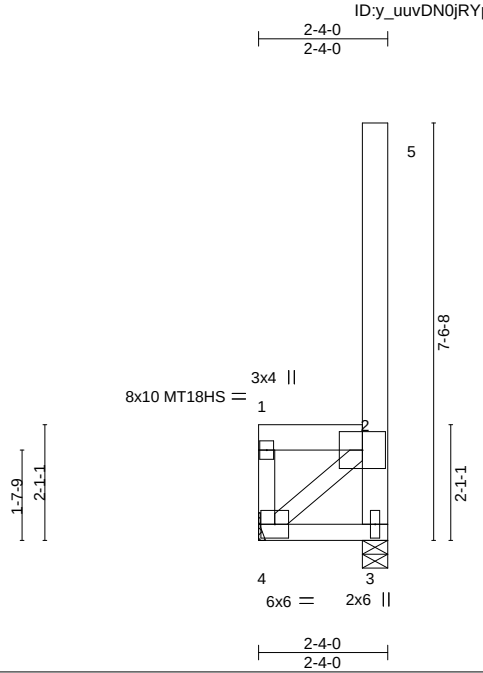

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=240(LC 12)
Max Uplift 4=-486(LC 11), 3=-486(LC 12)
Max Grav 4=527(LC 14), 3=527(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-331/247, 2-3=-667/1426
BOT CHORD 3-4=-267/477
WEBS 2-4=-1468/784

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=486, 3=486.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J34A	Roof Special	1	1	I51652835
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:52 2022 Page 1
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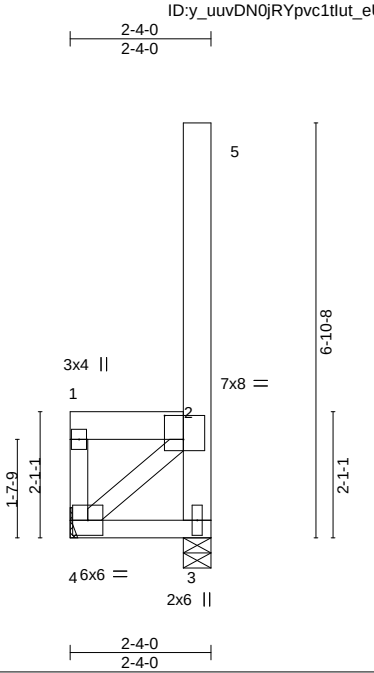

Plate Offsets (X,Y)-- [2:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-216(LC 11)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-544/1181
BOT CHORD 3-4=-210/362
WEBS 2-4=-1224/662

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J35	Roof Special	1	1	I51652836
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:53 2022 Page 1
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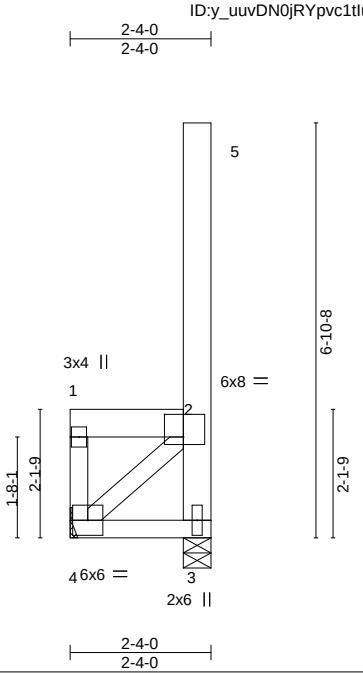

Plate Offsets (X,Y)-- [2:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=215(LC 12)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=439(LC 14), 3=439(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-541/1180
BOT CHORD 3-4=-202/344
WEBS 2-4=-1209/656

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=13, 2-3=3, 2-5=27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-13, 2-5=-27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=10, 2-3=2, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-2, 2-3=-10, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J36	Roof Special	1	1	I51652837
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:54 2022 Page 1
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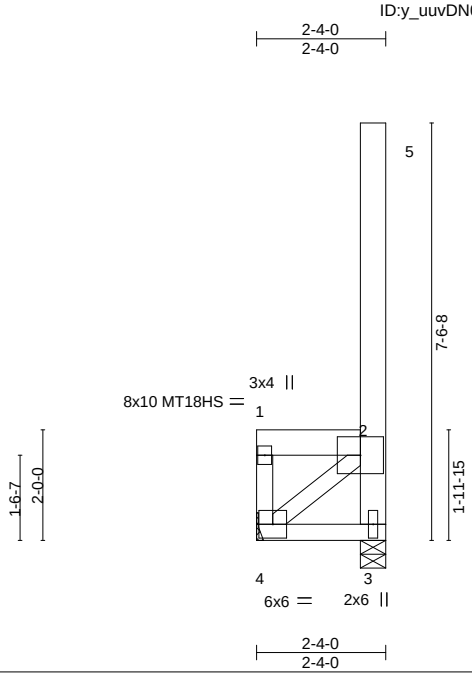

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-242(LC 11)
Max Uplift 4=-487(LC 11), 3=-487(LC 12)
Max Grav 4=528(LC 14), 3=528(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-336/249, 2-3=-675/1430
BOT CHORD 3-4=-294/533
WEBS 2-4=-1515/807

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=487, 3=487.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J37	Roof Special	1	1	I51652838
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:54 2022 Page 1
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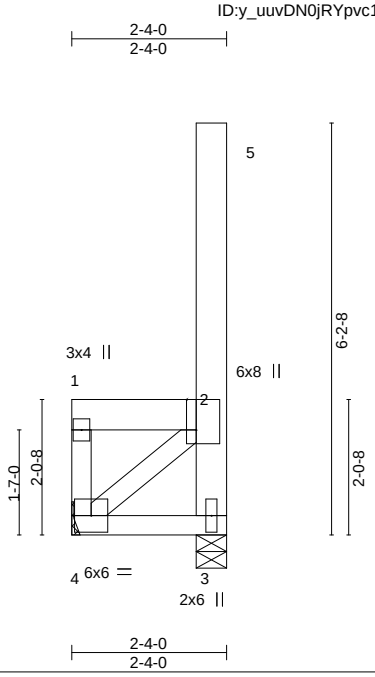

Plate Offsets (X,Y)-- [2:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-192(LC 11)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=361(LC 14), 3=361(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-438/963
BOT CHORD 3-4=-155/255
WEBS 2-4=-983/540

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=320, 3=320.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J37GE	Jack-Closed Structural Gable	1	1	I51652839
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:55 2022 Page 1
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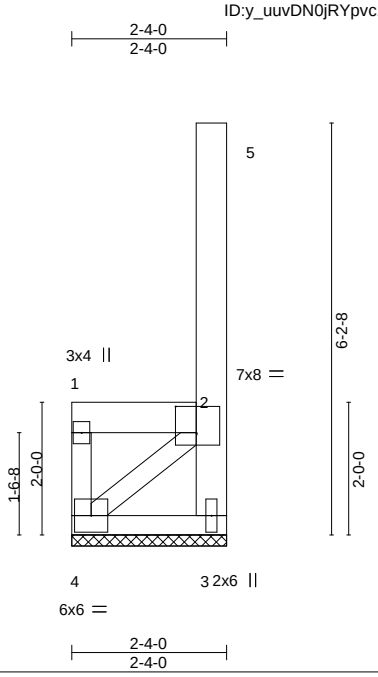

Plate Offsets (X,Y)-- [2:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-193(LC 11)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=362(LC 14), 3=362(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-499/969
BOT CHORD 3-4=-184/270
WEBS 2-4=-1004/623

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=320, 3=320.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J38	Roof Special	1	1	I51652840
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:56 2022 Page 1
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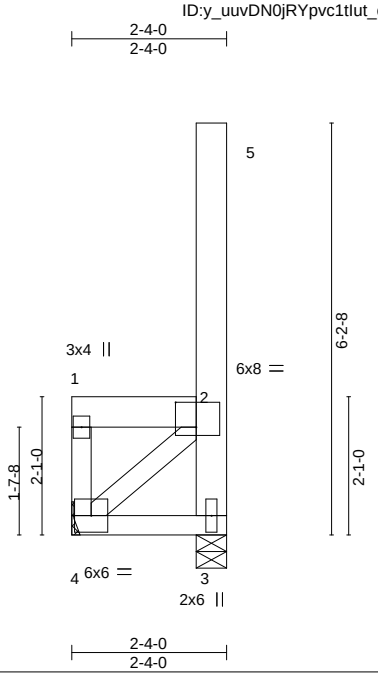

Plate Offsets (X,Y)-- [2:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-191(LC 11)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=361(LC 14), 3=361(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-435/961
WEBS 2-4=-971/534

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J39	Roof Special	2	1	I51652841
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:56 2022 Page 1
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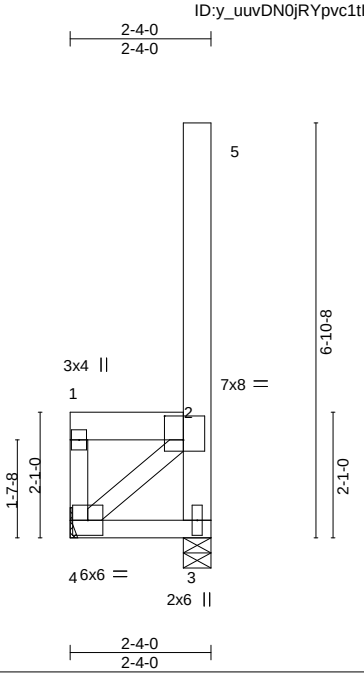

Plate Offsets (X,Y)-- [2:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-216(LC 11)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-545/1182
BOT CHORD 3-4=-212/366
WEBS 2-4=-1227/664

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J39GE	Jack-Closed Structural Gable	2	1	I51652842
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:57 2022 Page 1
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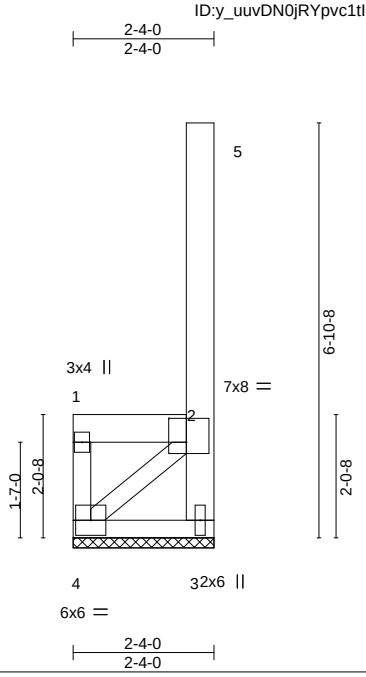

Plate Offsets (X,Y)-- [2:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-216(LC 11)
Max Uplift 4=-399(LC 11), 3=-399(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-621/1188
BOT CHORD 3-4=-250/384
WEBS 2-4=-1250/766

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=399, 3=399.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J40	Roof Special	2	1	I51652843
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:58 2022 Page 1
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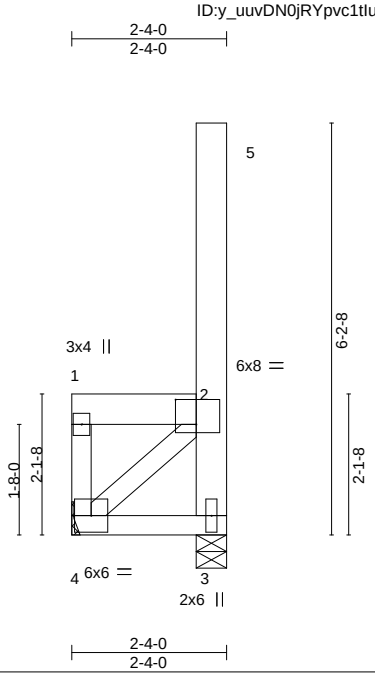

Plate Offsets (X,Y)-- [2:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-191(LC 11)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=360(LC 14), 3=360(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-431/959
WEBS 2-4=-959/529

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J40GE	Jack-Closed Structural Gable	1	1	I51652844
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:43:59 2022 Page 1
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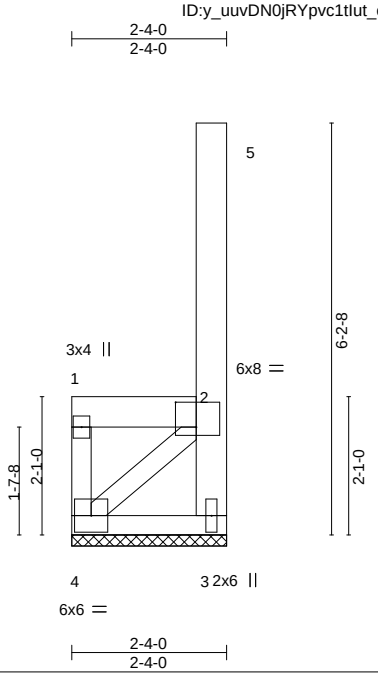

Plate Offsets (X,Y)-- [2:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=191(LC 12)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=361(LC 14), 3=361(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-491/966
WEBS 2-4=-978/609

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
					I51652844
PRYOR-B1RB	J40GE	Jack-Closed Structural Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J41	Roof Special	2	1	I51652845
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:00 2022 Page 1
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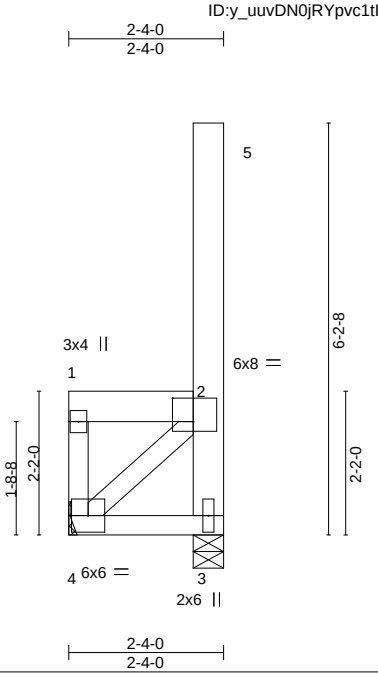

Plate Offsets (X,Y)-- [2:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-190(LC 13)
Max Uplift 4=-318(LC 11), 3=-318(LC 12)
Max Grav 4=360(LC 14), 3=360(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-427/957
WEBS 2-4=-947/524

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=318, 3=318.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J42	Roof Special	2	1	I51652846
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:01 2022 Page 1
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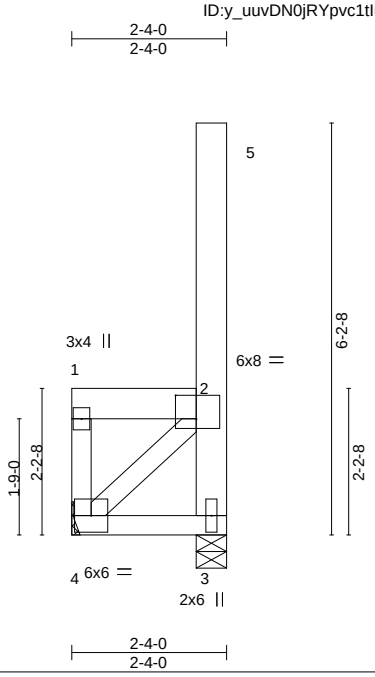

Plate Offsets (X,Y)-- [2:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-190(LC 11)
Max Uplift 4=-318(LC 11), 3=-318(LC 12)
Max Grav 4=359(LC 14), 3=359(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-424/955
WEBS 2-4=-937/519

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=318, 3=318.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J43	Roof Special	2	1	I51652847
					Job Reference (optional)

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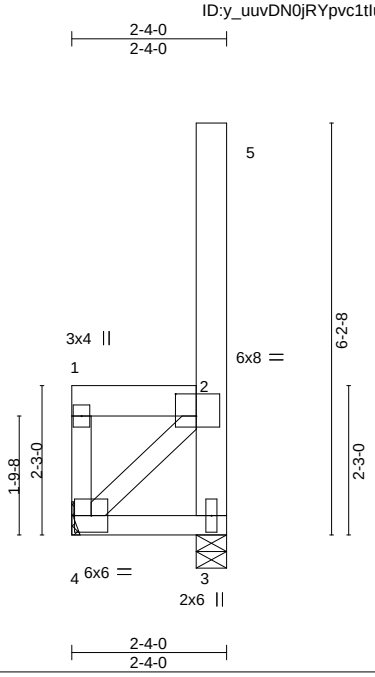

Plate Offsets (X,Y)-- [2:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-189(LC 11)
Max Uplift 4=-317(LC 11), 3=-317(LC 12)
Max Grav 4=359(LC 14), 3=359(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-420/953
WEBS 2-4=-927/515

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=317, 3=317.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J44	Roof Special	2	1	I51652848
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:02 2022 Page 1
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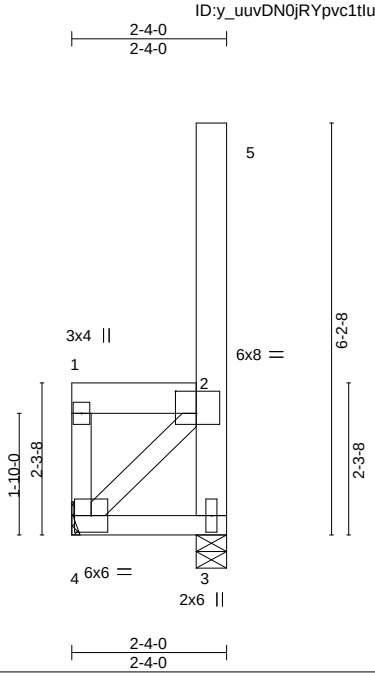

Plate Offsets (X,Y)-- [2:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=188(LC 12)
Max Uplift 4=-317(LC 11), 3=-317(LC 12)
Max Grav 4=358(LC 14), 3=358(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-416/951
WEBS 2-4=-918/512

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=317, 3=317.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-90

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-30-to-2=-110

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J45	Roof Special	1	1	I51652849
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:03 2022 Page 1
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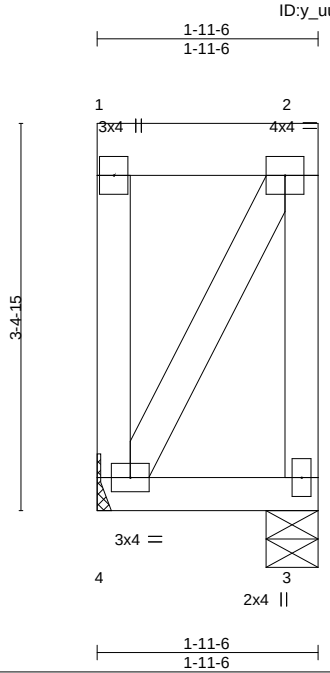

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-65(LC 11)
Max Uplift 4=-56(LC 11), 3=-56(LC 12)
Max Grav 4=120(LC 25), 3=137(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J45GE	Jack-Closed Structural Gable	1	1	I51652850
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:03 2022 Page 1
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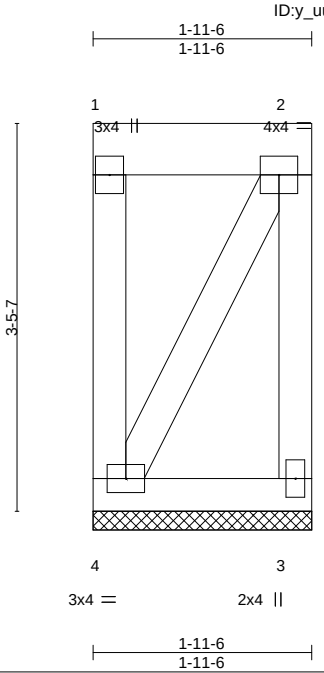

Scale = 1:20.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-11-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-11-6, 3=1-11-6
Max Horz 4=-66(LC 11)
Max Uplift 4=-58(LC 11), 3=-58(LC 12)
Max Grav 4=121(LC 25), 3=138(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20
   Trapezoidal Loads (plf)
   Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J46	Roof Special	1	1	I51652851
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:04 2022 Page 1
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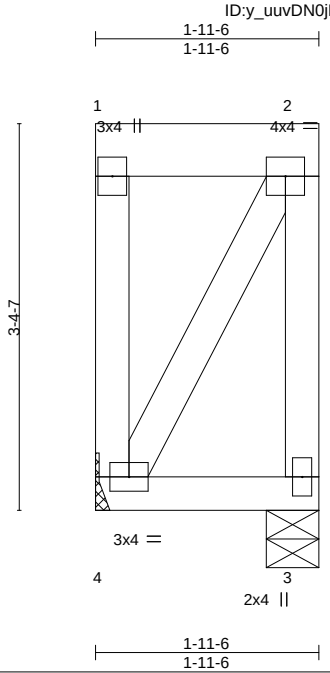

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-64(LC 11)
Max Uplift 4=-55(LC 11), 3=-55(LC 12)
Max Grav 4=119(LC 25), 3=136(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J47	Roof Special	1	1	I51652852
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:05 2022 Page 1
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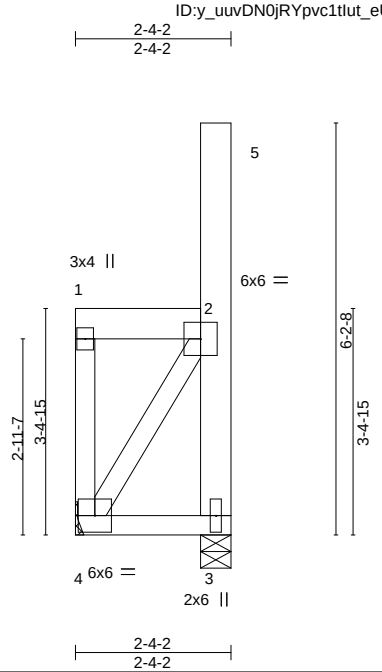

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-173(LC 11)
Max Uplift 4=-295(LC 11), 3=-295(LC 12)
Max Grav 4=337(LC 14), 3=337(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-397/874
WEBS 2-4=-780/476

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=295, 3=295.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J47GE	Jack-Closed Structural Gable	1	1	I51652853
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:05 2022 Page 1
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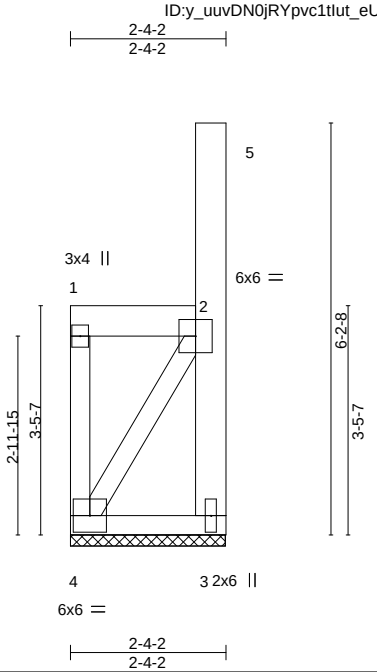

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=172(LC 12)
Max Uplift 4=-294(LC 11), 3=-294(LC 12)
Max Grav 4=336(LC 14), 3=336(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-463/888
WEBS 2-4=-796/545

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=294, 3=294.
9) Non Standard bearing condition. Review required.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=13, 2-3=3, 2-5=27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-13, 2-5=-27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=10, 2-3=2, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-2, 2-3=-10, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J48	Roof Special	1	1	I51652854
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:06 2022 Page 1
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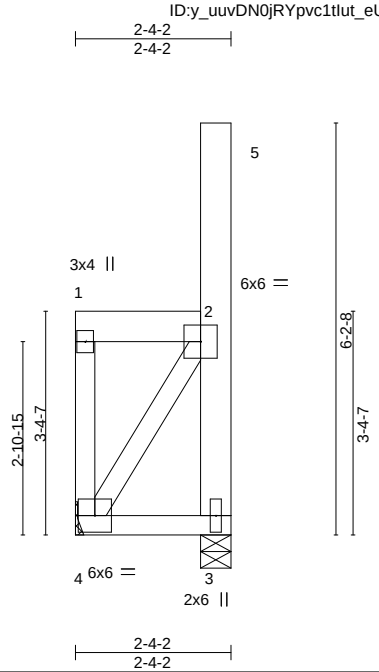

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-173(LC 11)
Max Uplift 4=-296(LC 11), 3=-296(LC 12)
Max Grav 4=337(LC 14), 3=337(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-397/878
WEBS 2-4=-783/476

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=296, 3=296.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J49	Roof Special	1	1	I51652855
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:07 2022 Page 1
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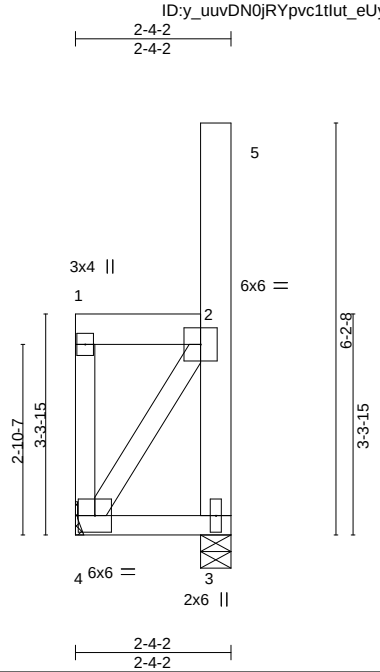

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-174(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=338(LC 14), 3=338(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-397/881
WEBS 2-4=-786/476

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=297, 3=297.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J50	Roof Special	1	1	I51652856
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:08 2022 Page 1
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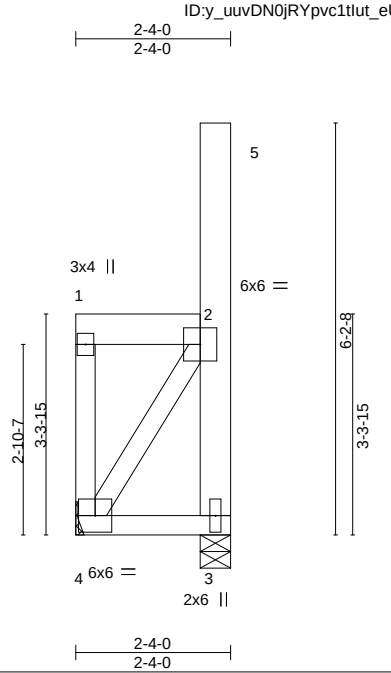

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-174(LC 11)
Max Uplift 4=-298(LC 11), 3=-298(LC 12)
Max Grav 4=340(LC 14), 3=340(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-400/885
WEBS 2-4=-788/478

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=298, 3=298.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

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Chesterfield, MO 63017

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J51	Roof Special	2	1	I51652857
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:09 2022 Page 1
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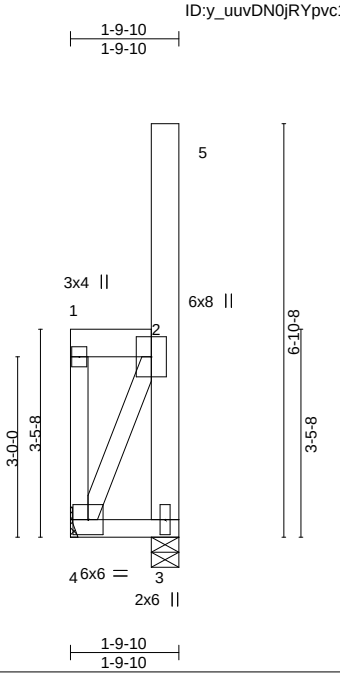

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=-196(LC 11)
Max Uplift 4=-516(LC 11), 3=-516(LC 12)
Max Grav 4=546(LC 14), 3=546(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-300/206, 2-3=-741/1461
WEBS 2-4=-1176/693

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=516, 3=516.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-60-to-2=-120

May 4,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=13, 2-3=3, 2-5=27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-3, 2-3=-13, 2-5=-27
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=10, 2-3=2, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-20
Horz: 1-4=-2, 2-3=-10, 2-5=18
Trapezoidal Loads (plf)
Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	J51GE	Jack-Closed Structural Gable	2	1	I51652858
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:10 2022 Page 1
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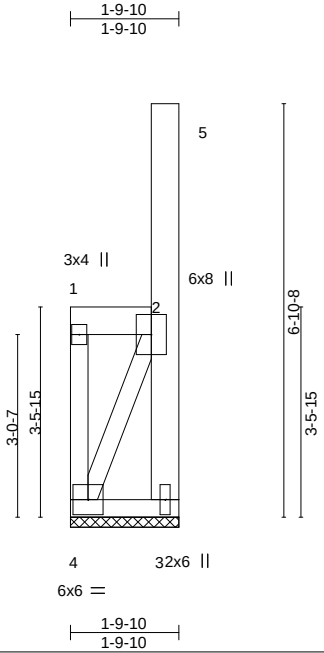

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-9-10, 3=1-9-10
Max Horz 4=-196(LC 11)
Max Uplift 4=-515(LC 11), 3=-515(LC 12)
Max Grav 4=545(LC 14), 3=545(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-296/224, 2-3=-853/1480
WEBS 2-4=-1199/794

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=515, 3=515.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-20
Trapezoidal Loads (plf)
Vert: 1=-70-to-2=-150

May 4,2022

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-60-to-2=-120

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=13, 2-3=3, 2-5=27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-3, 2-3=-13, 2-5=-27
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=10, 2-3=2, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-4=-20
      Horz: 1-4=-2, 2-3=-10, 2-5=18
   Trapezoidal Loads (plf)
      Vert: 1=-51-to-2=-111

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-4=-20
   Trapezoidal Loads (plf)
      Vert: 1=-70-to-2=-150

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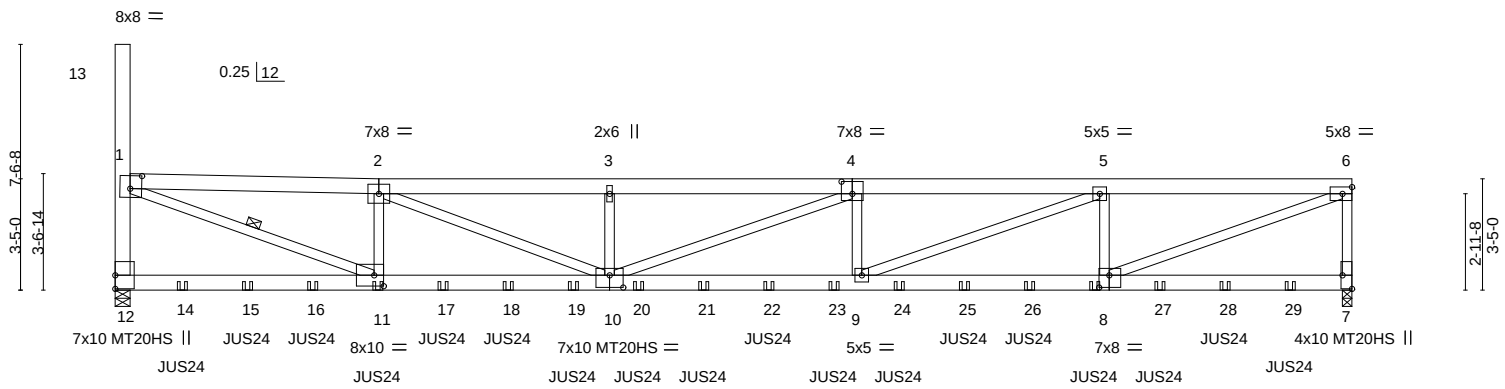
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T01	Roof Special Girder	1	1	I51652859
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:16 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-HNf0c6D1bGcUX4PXzydSUJcv4ynpFQM5aQbbObzM7dD

8-1-2 | 15-2-1 | 22-9-3 | 30-4-5 | 37-11-7
8-1-2 | 7-0-15 | 7-7-2 | 7-7-2 | 7-7-2

Scale = 1:70.7



8-1-2 | 15-2-1 | 22-9-3 | 30-4-5 | 37-11-7
8-1-2 | 7-0-15 | 7-7-2 | 7-7-2 | 7-7-2

Plate Offsets (X,Y)-- [1:0-4-4,0-4-12], [4:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-12,0-4-8], [10:0-5-0,0-4-8], [11:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.49	9-10	>923	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.91	9-10	>494	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 268 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E *Except* 7-8: 2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-2-4 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-217(LC 11)
Max Uplift 12=-1164(LC 16), 7=-68(LC 12)
Max Grav 12=2921(LC 69), 7=2155(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-2329/865, 1-2=-5312/2361, 2-3=-6855/1871, 3-4=-6855/1871, 4-5=-6776/1504, 5-6=-4545/848, 6-7=-2032/417
BOT CHORD 11-12=-534/622, 10-11=-2393/5316, 9-10=-1555/6806, 8-9=-883/4545
WEBS 1-11=-2102/5203, 2-11=-1527/471, 2-10=-833/2138, 3-10=-582/197, 4-10=-398/407, 4-9=-599/319, 5-9=-704/2395, 5-8=-1497/464, 6-8=-920/4809

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 12=1164.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 67, 68, 69, 70, 77, 78, 79, 80, 81, 82, 83, 84 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 36-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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NOTES-

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-26(B) 8=-26(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-26(B) 18=-26(B) 19=-26(B) 20=-26(B) 21=-26(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-26(B) 8=-26(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-26(B) 18=-26(B) 19=-26(B) 20=-26(B) 21=-26(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-65, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-26(B) 8=-26(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-26(B) 18=-26(B) 19=-26(B) 20=-26(B) 21=-26(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-77, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 14=322(B) 15=323(B) 16=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 14=322(B) 15=323(B) 16=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 14=322(B) 15=323(B) 16=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-26(B) 8=-26(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-26(B) 18=-26(B) 19=-26(B) 20=-26(B) 21=-26(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B)
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-26(B) 8=-26(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-26(B) 18=-26(B) 19=-26(B) 20=-26(B) 21=-26(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-26(B) 26=-26(B) 27=-26(B) 28=-26(B) 29=-26(B)
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

Continued on page 4

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LOAD CASE(S) Standard

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 14=322(B) 15=323(B) 16=323(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-32(B) 8=-32(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-32(B) 18=-32(B) 19=-32(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B)
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

77) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

78) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-2=3, 6-7=3
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

79) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

80) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=9, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

81) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

82) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=3, 6-7=2
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

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LOAD CASE(S) Standard

83) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

84) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=9, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-25(B) 8=-25(B) 14=-405(B) 15=-405(B) 16=-406(B) 17=-25(B) 18=-25(B) 19=-25(B) 20=-25(B) 21=-25(B) 22=-25(B) 23=-25(B) 24=-25(B) 25=-25(B) 26=-25(B) 27=-25(B) 28=-25(B) 29=-25(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

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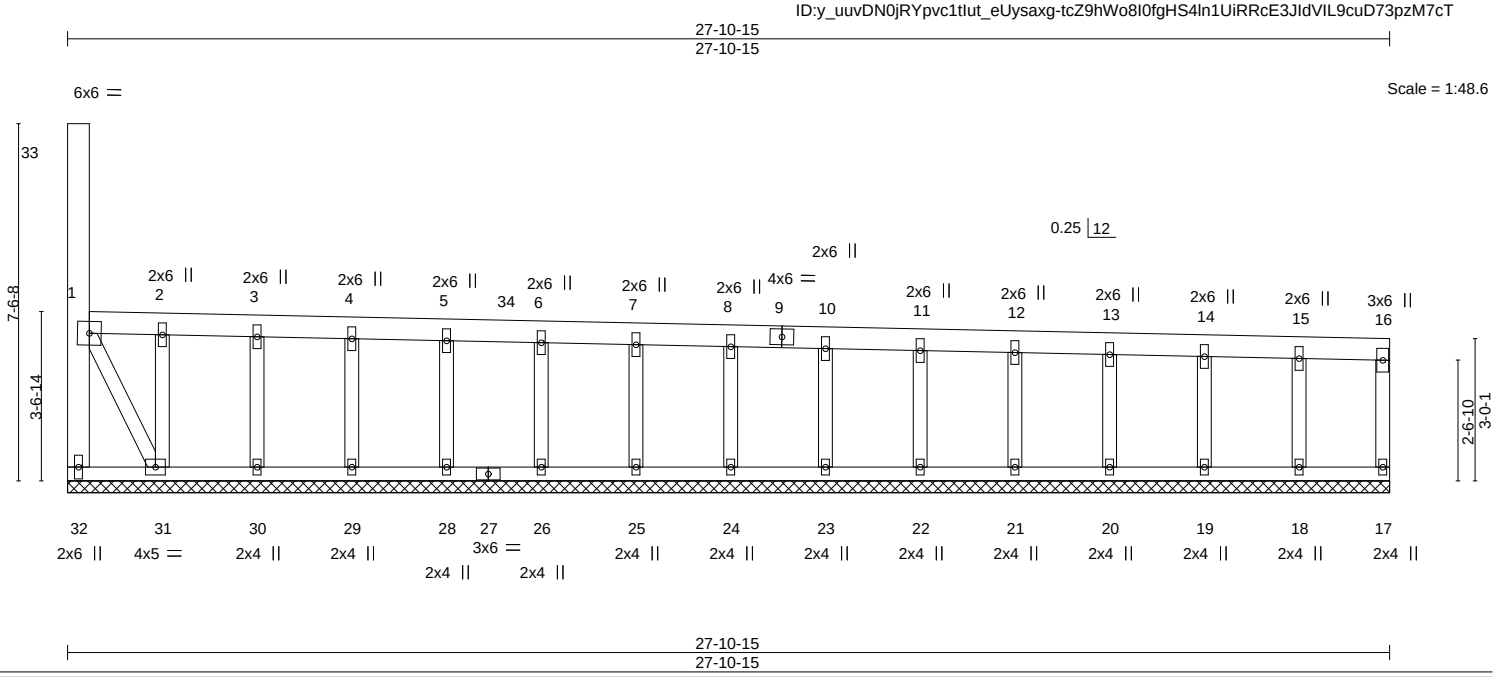
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T1GE	Roof Special Supported Gable	1	1	I51652860
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:04 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-tcZ9hWo8I0fgHS4ln1UiRRcE3JIdVIL9cuD73pzM7cT



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 180 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 32-33: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-10-15.
(lb) - Max Horz 32=-219(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17 except 32=-509(LC 11), 31=-486(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 17, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18 except 32=520(LC 14), 31=637(LC 24), 30=295(LC 22), 29=252(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-32=-529/899
BOT CHORD	31-32=-267/428
WEBS	2-31=-283/180, 3-30=-255/76, 1-31=-799/506

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 32=509, 31=486.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-70, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-34=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-60, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-34=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-39, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-34=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-66, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-34=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-42, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-34=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-78, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-34=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-57, 17-32=-20
   Horz: 1-32=13, 1-33=27, 1-16=3, 16-17=3
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-34=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-51, 17-32=-20
   Horz: 1-32=-3, 1-33=-27, 1-16=9, 16-17=-13
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-34=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-57, 17-32=-20
   Horz: 1-32=10, 1-33=-18, 1-16=3, 16-17=2
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-34=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-51, 17-32=-20
   Horz: 1-32=-2, 1-33=-18, 1-16=9, 16-17=-10
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-34=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-70, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-34=-70

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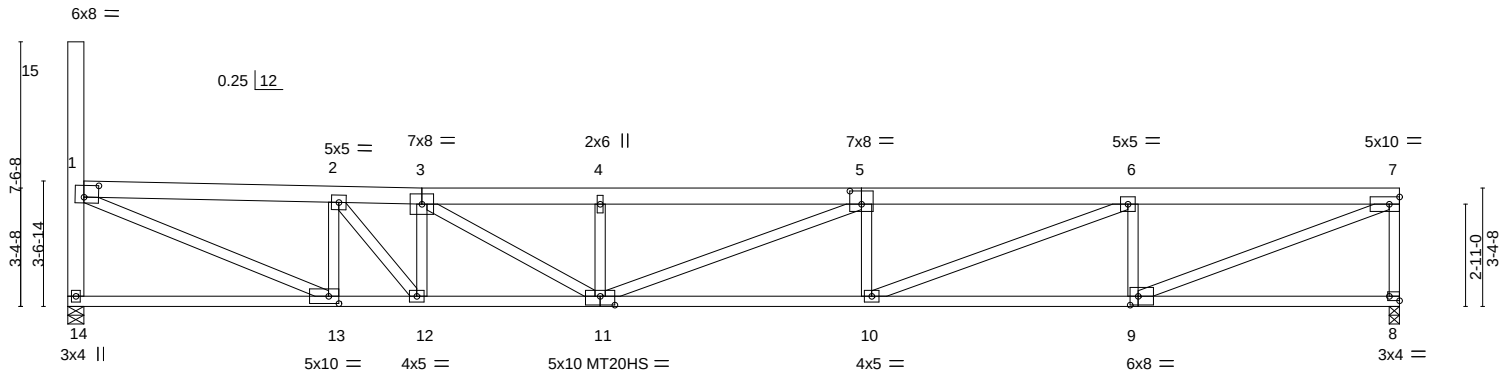
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T02	Roof Special	1	1	I51652861
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:17 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-lZDOqSDfMakL8E_jXf8h1X99hM3j_qrEp4L8w1zM7dC

7-6-15	10-1-2	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	2-6-3	5-0-15	7-7-2	7-7-2	7-7-2

Scale = 1:65.7



7-6-15	10-1-2	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	2-6-3	5-0-15	7-7-2	7-7-2	7-7-2

Plate Offsets (X,Y)-- [1:0-5-0,0-4-0], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [9:0-2-12,0-3-0], [11:0-5-0,0-3-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.41	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.86	10-11	>523	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.13	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
11-14: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-219(LC 11)
Max Grav 14=2101(LC 22), 8=1845(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-2020/314, 1-2=-3844/713, 2-3=-4594/788, 3-4=-5716/895, 4-5=-5716/895, 5-6=-5684/831, 6-7=-3825/538, 7-8=-1773/300
BOT CHORD 13-14=-308/406, 12-13=-743/3835, 11-12=-824/4594, 10-11=-877/5713, 9-10=-574/3825
WEBS 1-13=-531/4024, 2-13=-1502/294, 2-12=-219/1272, 3-12=-936/187, 3-11=-240/1409, 4-11=-533/168, 5-10=-585/207, 6-10=-316/1999, 6-9=-1361/322, 7-9=-597/4058

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-65, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-77, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 3-7=-78, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-78, 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 3-7=-66, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-66, 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-7=-63, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-7=-36, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-7=-58, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-7=-30, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-7=-63, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-7=-36, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-7=-58, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-7=-30, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-7=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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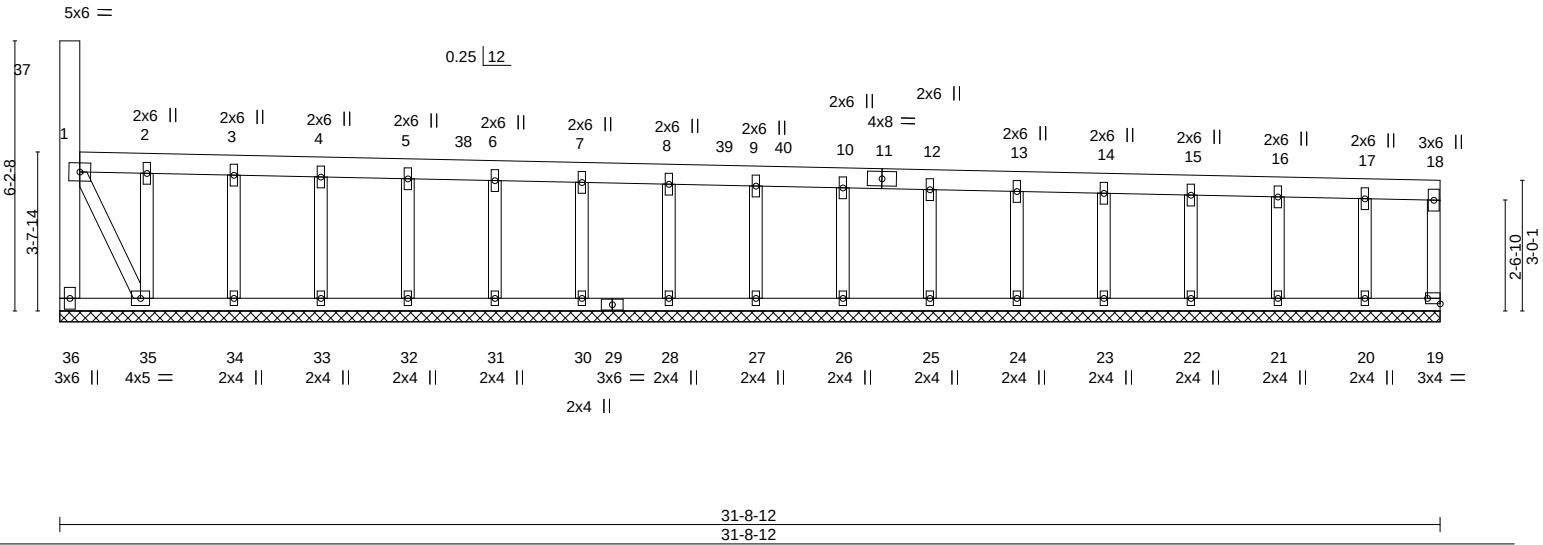
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T2GE	Roof Special Supported Gable	1	1	I51652862
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-xVzqqezYmdYYamjd9hFEYcjsPLQYW5uM3jMQ5RzM7cE

31-8-12
31-8-12

Scale = 1:53.0



31-8-12
31-8-12

Plate Offsets (X,Y)-- [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 36-37: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-8-12.
(lb) - Max Horz 36=-169(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 36=-322(LC 11), 35=-288(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 19, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20 except 36=328(LC 14), 35=492(LC 24), 34=296(LC 22), 33=253(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-36=-312/559
BOT CHORD	35-36=-173/288
WEBS	2-35=-273/100, 3-34=-256/61, 1-35=-527/322

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 36=322, 35=288.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-70, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-38=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-60, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-38=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-39, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-38=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-67, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-38=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-42, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-38=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-79, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-38=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-38=-57, 19-36=-20
   Horz: 1-36=13, 1-37=27, 1-18=3, 18-19=3
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-38=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-38=-51, 19-36=-20
   Horz: 1-36=-3, 1-37=-27, 1-18=9, 18-19=-13
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-38=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-38=-57, 19-36=-20
   Horz: 1-36=10, 1-37=-18, 1-18=3, 18-19=2
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-38=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-38=-51, 19-36=-20
   Horz: 1-36=-2, 1-37=-18, 1-18=9, 18-19=-10
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-38=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-38=-70, 19-36=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-38=-70

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T03	Roof Special	1	1	I51652863
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-hyL9F7FvuB_3OX85e4A96yEV8Ak5SkRXGOqF?wzM7dA

7-6-15	11-11-12	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	4-4-13	3-2-5	7-7-2	7-7-2	7-7-2

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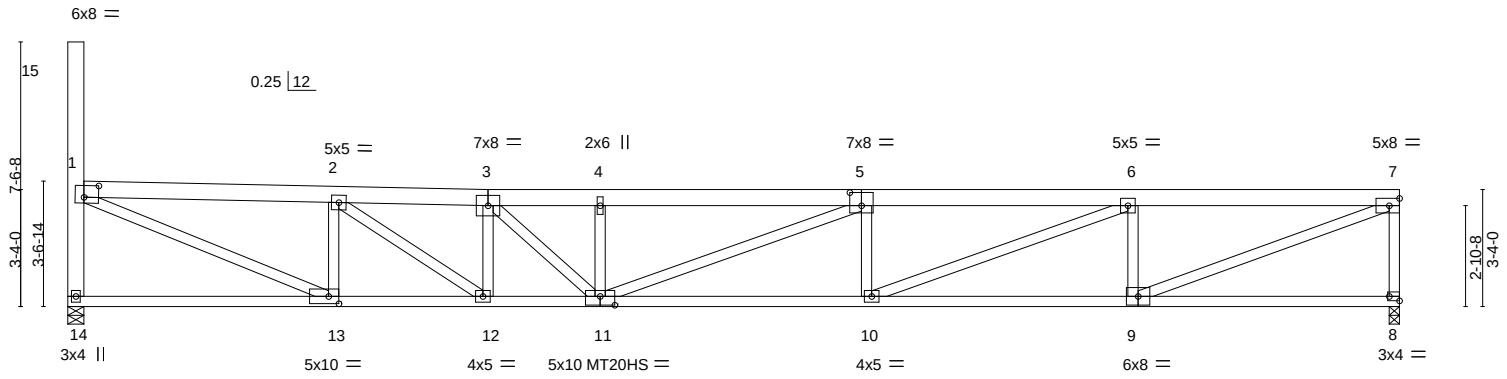

7-6-15	11-11-12	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	4-4-13	3-2-5	7-7-2	7-7-2	7-7-2

Plate Offsets (X,Y)-- [1:0-5-0,0-4-0], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.42	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.87	10-11	>516	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.13	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 11-14: 2x4 SP No.1, 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 7-9: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-2 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-219(LC 11)
Max Grav 14=2101(LC 22), 8=1845(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-2021/314, 1-2=-3848/713, 2-3=-5123/847, 3-4=-5782/904, 4-5=-5782/904, 5-6=-5760/842, 6-7=-3879/545, 7-8=-1773/300
BOT CHORD	13-14=-306/407, 12-13=-741/3840, 11-12=-880/5121, 10-11=-888/5788, 9-10=-581/3879
WEBS	1-13=-536/4031, 2-13=-1486/300, 2-12=-274/1584, 3-12=-864/176, 3-11=-168/1017, 4-11=-495/153, 5-10=-583/208, 6-10=-318/2019, 6-9=-1362/322, 7-9=-604/4110

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-65, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-77, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 3-7=-78, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-78, 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 3-7=-66, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-66, 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-7=-63, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-7=-36, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-3=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-7=-58, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-7=-30, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-3=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-7=-63, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-7=-36, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-3=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-7=-58, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-7=-30, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-3=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-7=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T3GE	Roof Special Supported Gable	1	1	I51652864
					Job Reference (optional)

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ID:y_uuvDN0jRYpvc1tIut_eUysaxg-?NNV_n9yDERQu3MWYK0lfmrPpOXzXtkaWZVj74zM7c?

27-8-2
27-8-2

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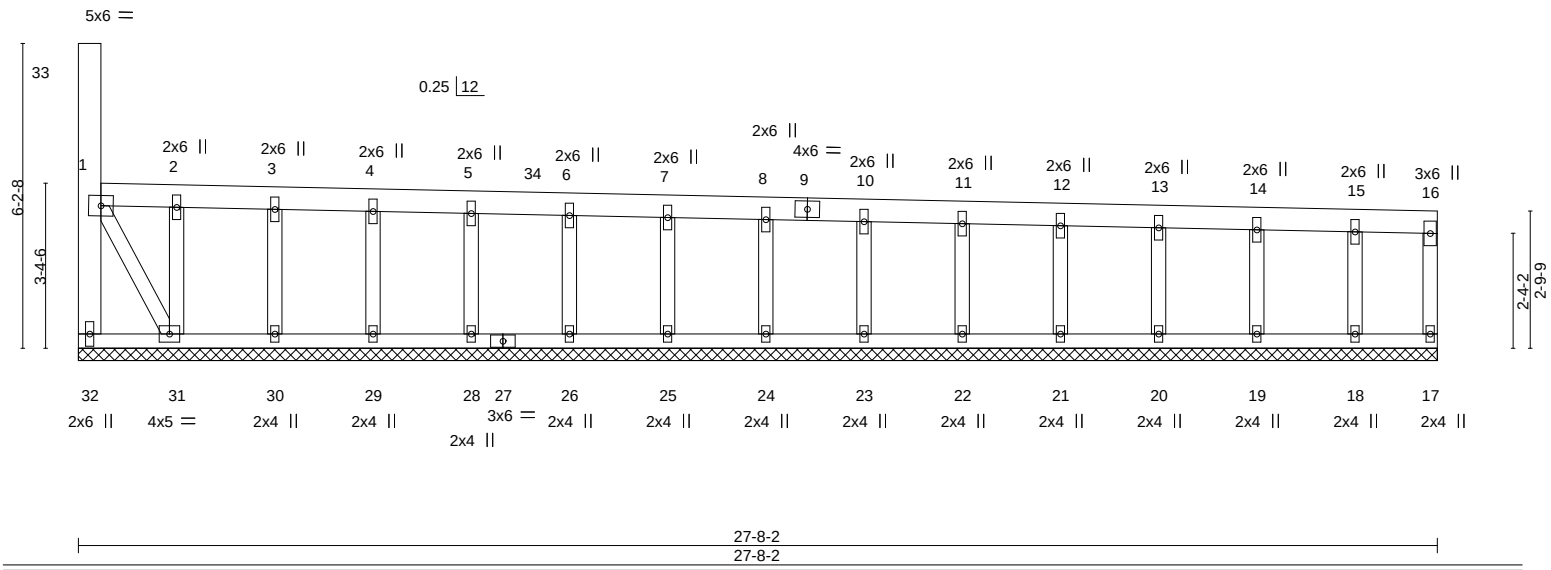

27-8-2
27-8-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 32-33: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-8-2.
(lb) - Max Horz 32=-173(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17 except 32=-329(LC 11), 31=-304(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 17, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18 except 32=341(LC 14), 31=501(LC 24), 30=294(LC 22), 29=252(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-32=-329/601
BOT CHORD	31-32=-196/323
WEBS	2-31=-272/121, 3-30=-254/70, 1-31=-562/346

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 32=329, 31=304.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-70, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-34=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-60, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-34=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-39, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-34=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-66, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-34=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-42, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-34=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-78, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-34=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-57, 17-32=-20
   Horz: 1-32=13, 1-33=27, 1-16=3, 16-17=3
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-34=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-51, 17-32=-20
   Horz: 1-32=-3, 1-33=-27, 1-16=9, 16-17=-13
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-34=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-57, 17-32=-20
   Horz: 1-32=10, 1-33=-18, 1-16=3, 16-17=2
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-34=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 16-34=-51, 17-32=-20
   Horz: 1-32=-2, 1-33=-18, 1-16=9, 16-17=-10
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-34=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 16-34=-70, 17-32=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-34=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T04	Roof Special	1	1	I51652865
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:20 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-98uXSTGXfV6w?hIlCoiOf9ng_Z6eBBegV2ZoXMzM7d9

7-6-15	13-10-5	22-9-3	30-4-5	37-11-7
7-6-15	6-3-6	8-10-14	7-7-2	7-7-2

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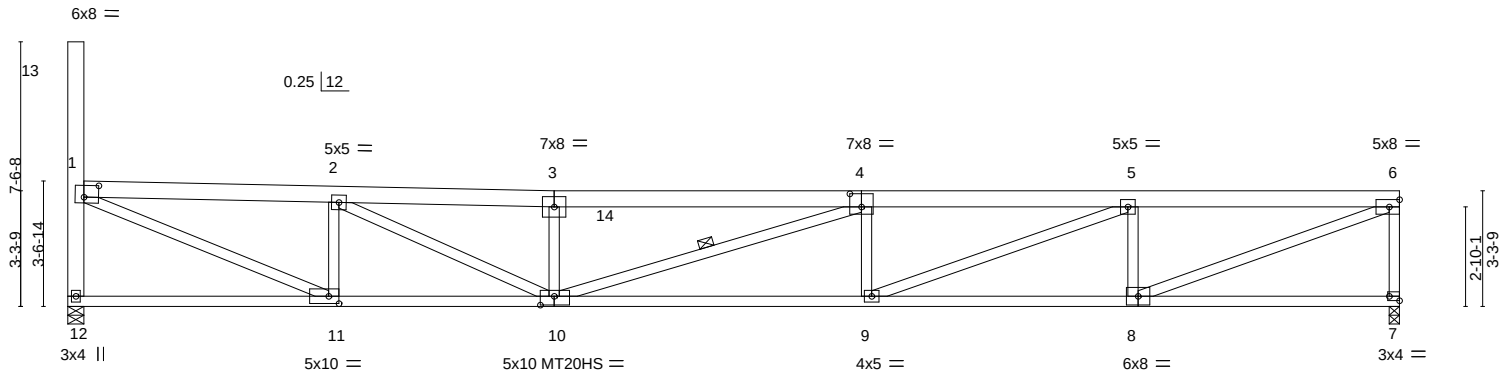

7-6-15	13-10-5	22-9-3	30-4-5	37-11-7
7-6-15	6-3-6	8-10-14	7-7-2	7-7-2

Plate Offsets (X,Y)-- [1:0-5-0,0-4-0], [4:0-4-0,0-4-8], [7:Edge,0-1-8], [10:0-4-12,0-3-0], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.42	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.92	9-10	>492	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.13	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 237 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1 *Except*
	3-4: 2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2 *Except*
	10-12: 2x4 SP No.1, 8-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	12-13: 2x6 SP No.1, 6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-2-15 oc bracing.
WEBS	1 Row at midpt 4-10

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-219(LC 13)
Max Grav 12=2101(LC 22), 7=1845(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2021/315, 1-2=-3858/717, 2-3=-5674/894, 3-4=-5668/891, 4-5=-5873/859, 5-6=-3921/551, 6-7=-1773/300
BOT CHORD	11-12=-303/409, 10-11=-743/3850, 9-10=-905/5902, 8-9=-586/3921
WEBS	1-11=-544/4043, 2-11=-1492/300, 2-10=-331/2022, 3-10=-647/185, 4-10=-545/166, 4-9=-586/221, 5-9=-330/2091, 5-8=-1362/318, 6-8=-609/4145

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-65, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-77, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-66, 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T4GE	Roof Special Supported Gable	1	1	I51652866
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:57 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ppGCpeRNpJK98bdxOgx84dIKagOHQHLyoeZRQFzM7be

16-7-12
16-7-12

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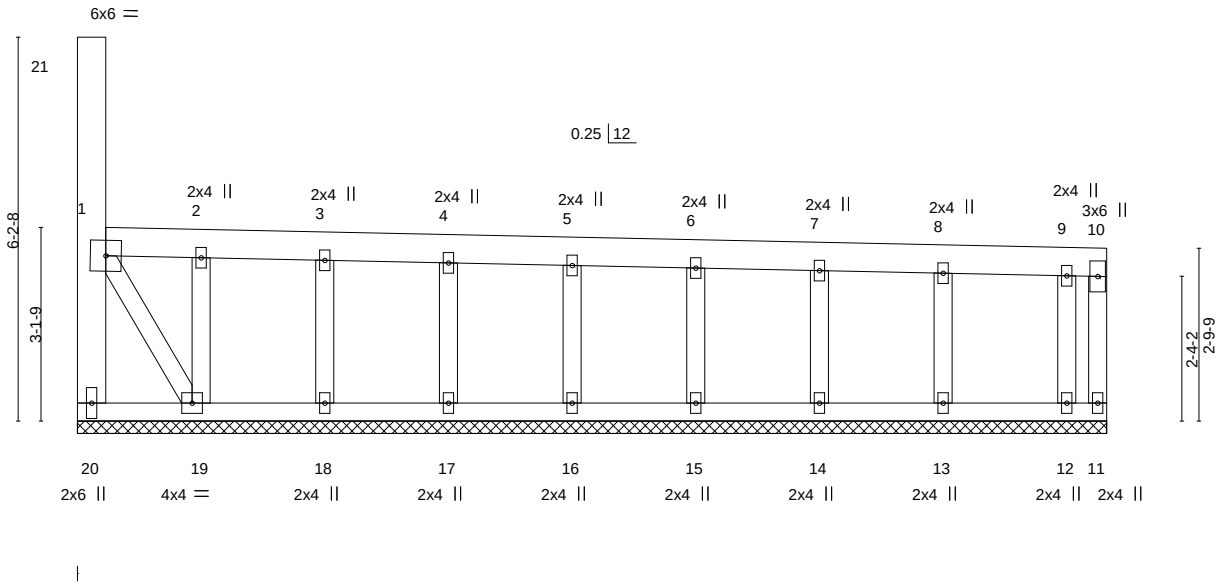

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 110 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 20-21: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-7-12.
(lb) - Max Horz 20=-176(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 20=-343(LC 11), 19=-334(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 18, 17, 16, 15, 14, 13, 12 except 20=364(LC 14), 19=450(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-409/749
BOT CHORD	19-20=-240/386
WEBS	1-19=-652/411

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 20=343, 19=334.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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Chesterfield, MO 63017

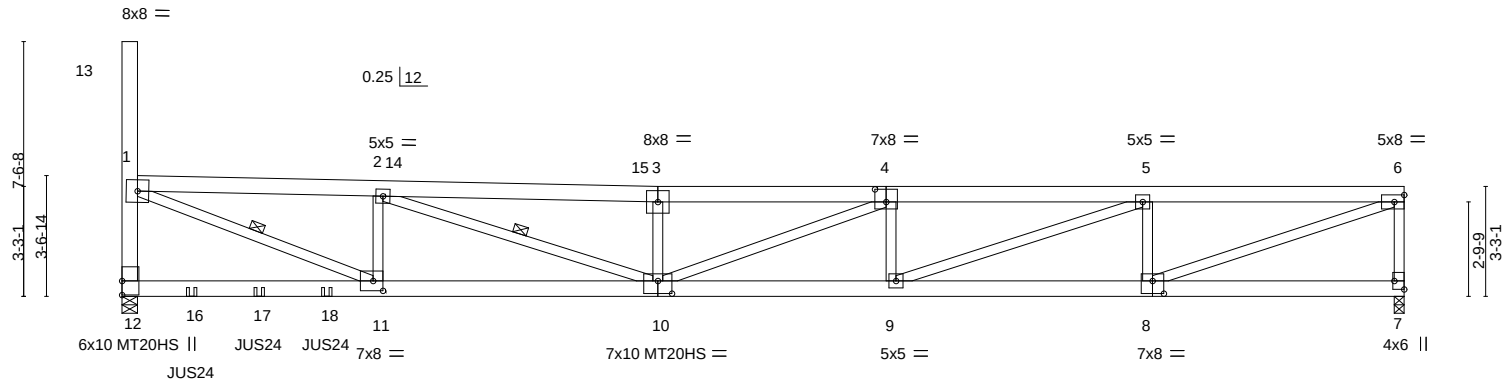
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T05	Roof Special Girder	1	1	I51652867
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-5X0Ht9HoB6MeF?sgKDkskasyCNm2f5XzyM2vbFzM7d7

7-6-15	15-10-5	22-9-3	30-4-5	37-11-7
7-6-15	8-3-6	6-10-14	7-7-2	7-7-2

Scale = 1:68.2



7-6-15	15-10-5	22-9-3	30-4-5	37-11-7
7-6-15	8-3-6	6-10-14	7-7-2	7-7-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-4-0,0-4-8], [10:0-5-0,0-4-8], [11:0-3-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.45	9-10	>995	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.90	9-10	>499	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 267 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 10-12: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-1 oc bracing.
WEBS	1 Row at midpt 1-11, 2-10

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-217(LC 11)
Max Uplift 12=-1182(LC 16), 7=-92(LC 12)
Max Grav 12=2758(LC 69), 7=1876(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2145/918, 1-2=-4769/2381, 2-3=-6375/2024, 3-4=-6368/2019, 4-5=-6225/1667, 5-6=-4166/953, 6-7=-1792/437
BOT CHORD	11-12=-501/611, 10-11=-2404/4771, 9-10=-1717/6257, 8-9=-986/4166
WEBS	1-11=-2154/4688, 2-11=-1456/556, 2-10=-998/2296, 3-10=-648/222, 4-10=-464/620, 4-9=-608/313, 5-9=-761/2194, 5-8=-1391/472, 6-8=-1021/4370

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 12=1182.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 67, 68, 69, 70, 77, 78, 79, 80, 81, 82, 83, 84 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-14=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-14=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-14=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-65, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-14=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-14=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-77, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-14=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=322(F) 17=323(F) 18=323(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-14=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=322(F) 17=323(F) 18=323(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-14=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=322(F) 17=323(F) 18=323(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-14=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=322(F) 17=323(F) 18=323(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-14=-51

Continued on page 3

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LOAD CASE(S) Standard

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-14=-70

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-42, 3-6=-78, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-14=-42

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-78, 3-6=-42, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-158-to-14=-78

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-39, 3-6=-66, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-78(F) 17=-78(F) 18=-78(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-14=-39

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-66, 3-6=-39, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-78(F) 17=-78(F) 18=-78(F)
Trapezoidal Loads (plf)
Vert: 1=-126-to-14=-66

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-36, 3-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-96-to-14=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-63, 3-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-123-to-14=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-90-to-14=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-36, 3-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-96-to-14=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-63, 3-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-123-to-14=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-90-to-14=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=322(F) 17=323(F) 18=323(F)
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-42, 3-6=-78, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-14=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-14=-78, 3-6=-42, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-158-to-14=-78

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-14=-57

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-14=-51

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-14=-57

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-14=-51

77) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 5

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-14=-36, 3-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-96-to-14=-36

78) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-63, 3-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-123-to-14=-63

79) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-90-to-14=-30

80) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-58

81) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-36, 3-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-96-to-14=-36

82) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-63, 3-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-123-to-14=-63

83) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-90-to-14=-30

84) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-14=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-405(F) 17=-405(F) 18=-406(F)
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-58

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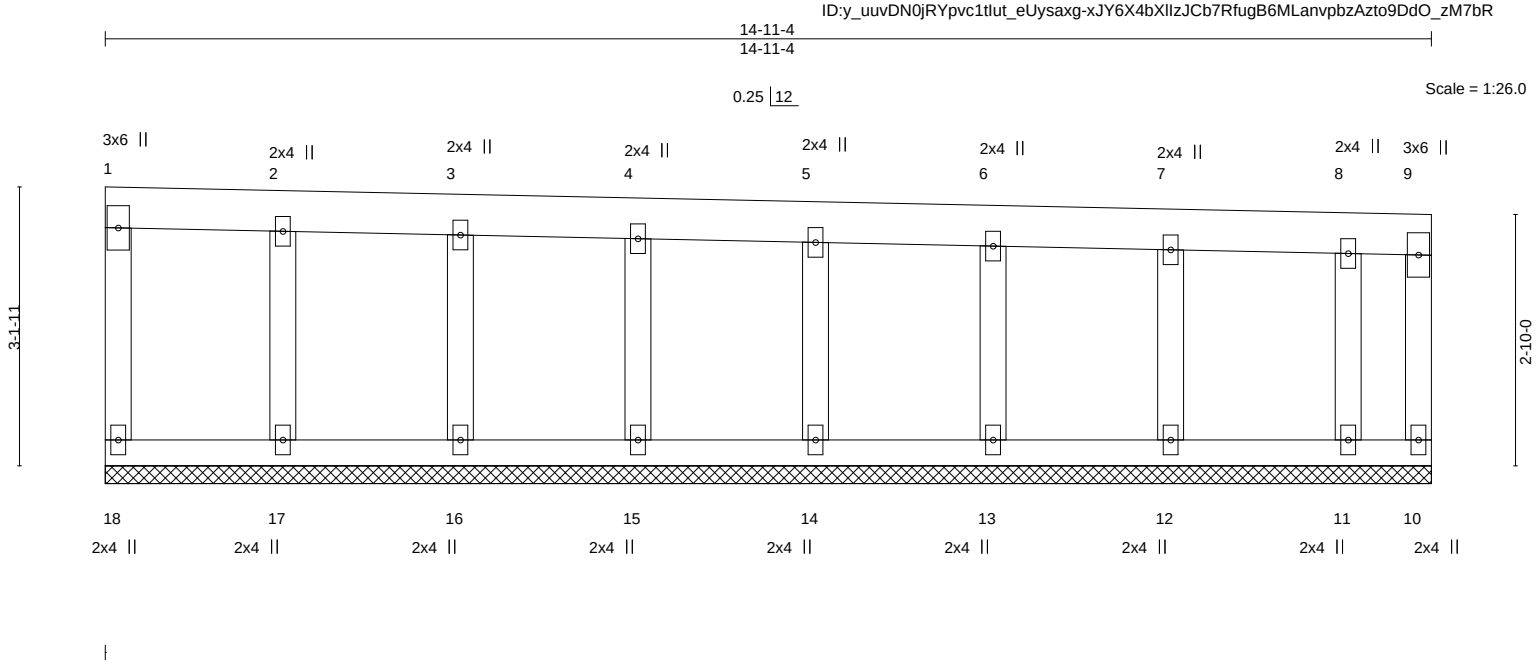
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T5GE	Roof Special Supported Gable	1	1	I51652868
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:10 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-xJY6X4bXlIzJCb7RfugB6MLanvpbzAzto9DdO_zM7bR



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 87 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-11-4.
(lb) - Max Horz 18=-59(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 17, 11
Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 17, 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

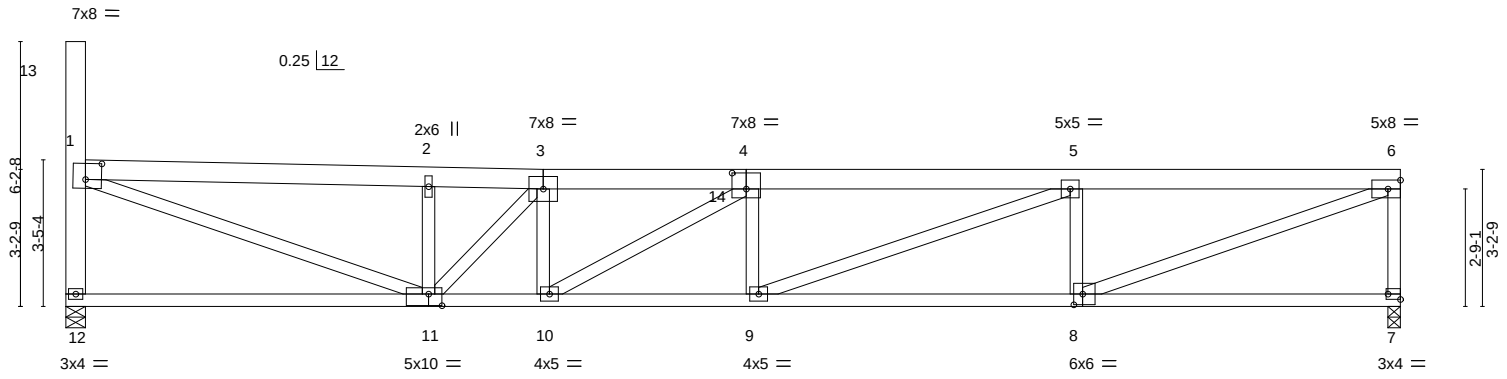
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T06	Roof Special	1	1	I51652869
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:23 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-ajaf4VIQyQUVs9RttwF5GoP8ln7zOaD7B0oT8hzM7d6

8-6-0	11-2-4	16-1-2	23-8-4	31-3-6
8-6-0	2-8-4	4-10-14	7-7-2	7-7-2

Scale = 1:54.0



8-6-0	11-2-4	16-1-2	23-8-4	31-3-6
8-6-0	2-8-4	4-10-14	7-7-2	7-7-2

Plate Offsets (X,Y)-- [1:0-4-8,0-4-8], [4:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-2-8,0-3-0], [11:0-3-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.26	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.54	8-9	>686	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-9-12 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-172(LC 11)
Max Grav 12=1791(LC 22), 7=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1704/334, 1-2=-3528/715, 2-3=-3518/708, 3-4=-3907/769, 4-5=-4285/803, 5-6=-3199/580, 6-7=-1448/316
BOT CHORD	11-12=-239/305, 10-11=-805/3907, 9-10=-848/4299, 8-9=-616/3199
WEBS	1-11=-629/3563, 2-11=-732/221, 3-11=-684/165, 3-10=-68/342, 4-10=-603/149, 4-9=-273/165, 5-9=-238/1159, 5-8=-1038/328, 6-8=-636/3357

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-65, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-76, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-2=-76

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-66, 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T6GE	Roof Special Supported Gable	1	1	I51652870
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:27 2022 Page 1
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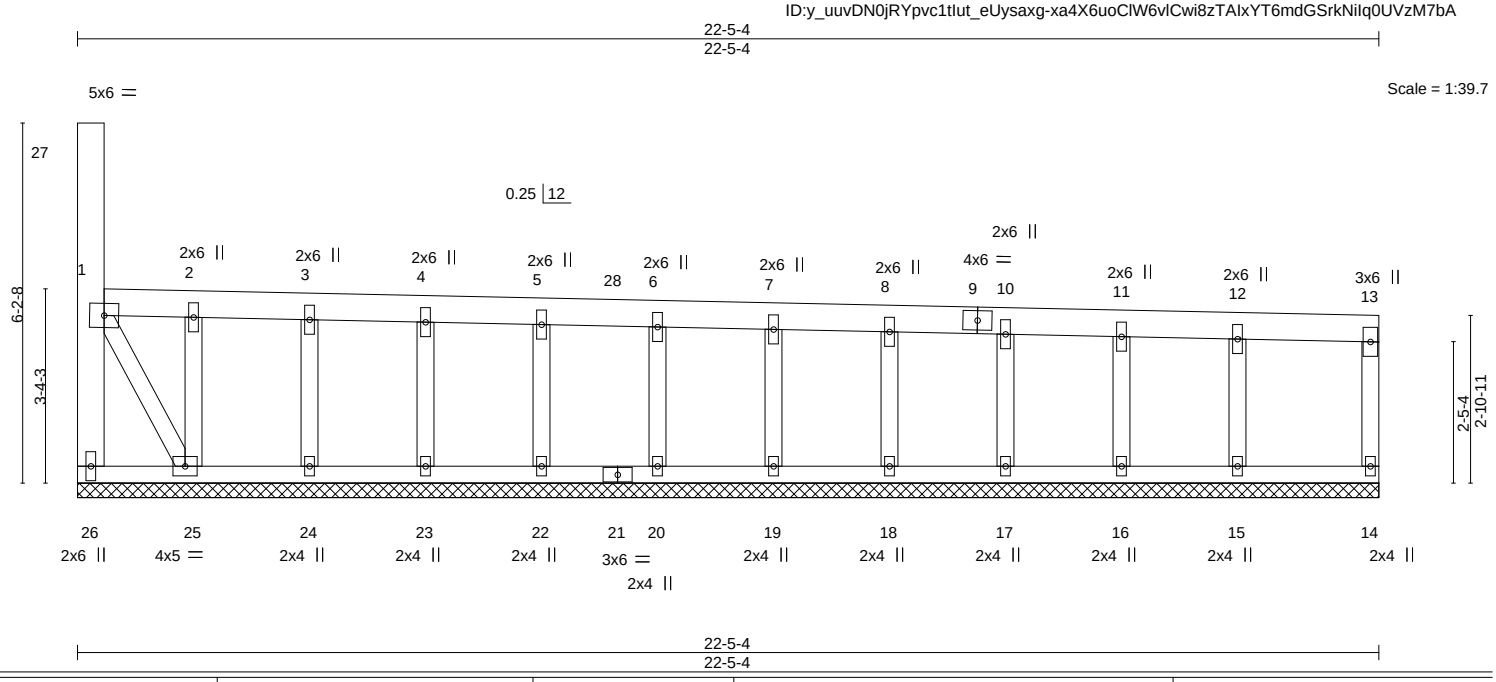

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 142 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 26-27: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-5-4.
(lb) - Max Horz 26=-173(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 26=-329(LC 11), 25=-311(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 14, 23, 22, 20, 19, 18, 17, 16, 15 except 26=349(LC 14), 25=499(LC 24), 24=292(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-26=-356/652
BOT CHORD	25-26=-214/349
WEBS	2-25=-270/134, 3-24=-252/80, 1-25=-608/377

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 26 and 311 lb uplift at joint 25.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-70, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-28=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-60, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-28=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-39, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-28=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-65, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-28=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-42, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-28=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-77, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-28=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 13-28=-57, 14-26=-20
   Horz: 1-26=13, 1-27=27, 1-13=3, 13-14=3
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-28=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 13-28=-51, 14-26=-20
   Horz: 1-26=-3, 1-27=-27, 1-13=9, 13-14=-13
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-28=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 13-28=-57, 14-26=-20
   Horz: 1-26=10, 1-27=-18, 1-13=3, 13-14=2
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-28=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 13-28=-51, 14-26=-20
   Horz: 1-26=-2, 1-27=-18, 1-13=9, 13-14=-10
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-28=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 13-28=-70, 14-26=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-28=-70

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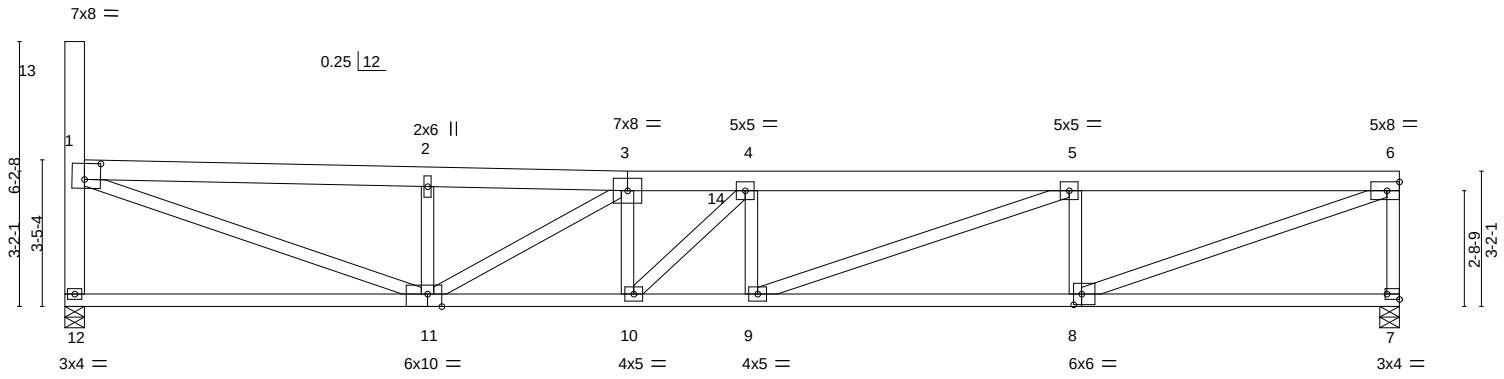
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T07	Roof Special	1	1	I51652871
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:25 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-W6iQVBKgT1kC6SbF?LHZMDUU8apIsUiQeKHZCazM7d4

8-6-0	13-2-4	16-1-2	23-8-4	31-3-6
8-6-0	4-8-4	2-10-14	7-7-2	7-7-2

Scale = 1:54.0



8-6-0	13-2-4	16-1-2	23-8-4	31-3-6
8-6-0	4-8-4	2-10-14	7-7-2	7-7-2

Plate Offsets (X,Y)-- [1:0-4-8,0-4-8], [7:Edge,0-1-8], [8:0-2-4,0-3-0], [11:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.27	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.55	8-9	>669	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-11: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-5-8
Max Horz 12=-172(LC 13)
Max Grav 12=1791(LC 22), 7=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1705/334, 1-2=-3531/716, 2-3=-3523/709, 3-4=-4167/804, 4-5=-4350/816, 5-6=-3245/587, 6-7=-1448/315
BOT CHORD 11-12=-237/307, 10-11=-839/4167, 9-10=-852/4350, 8-9=-623/3245
WEBS 1-11=-633/3567, 2-11=-728/230, 3-11=-835/209, 3-10=-48/314, 4-10=-411/90, 4-9=-283/159, 5-9=-244/1179, 5-8=-1036/328, 6-8=-641/3398

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-76, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 3-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-78, 3-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 3-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-66, 3-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-3=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-3=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-3=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-3=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T7GE	Roof Special Supported Gable	1	1	I51652872
					Job Reference (optional)

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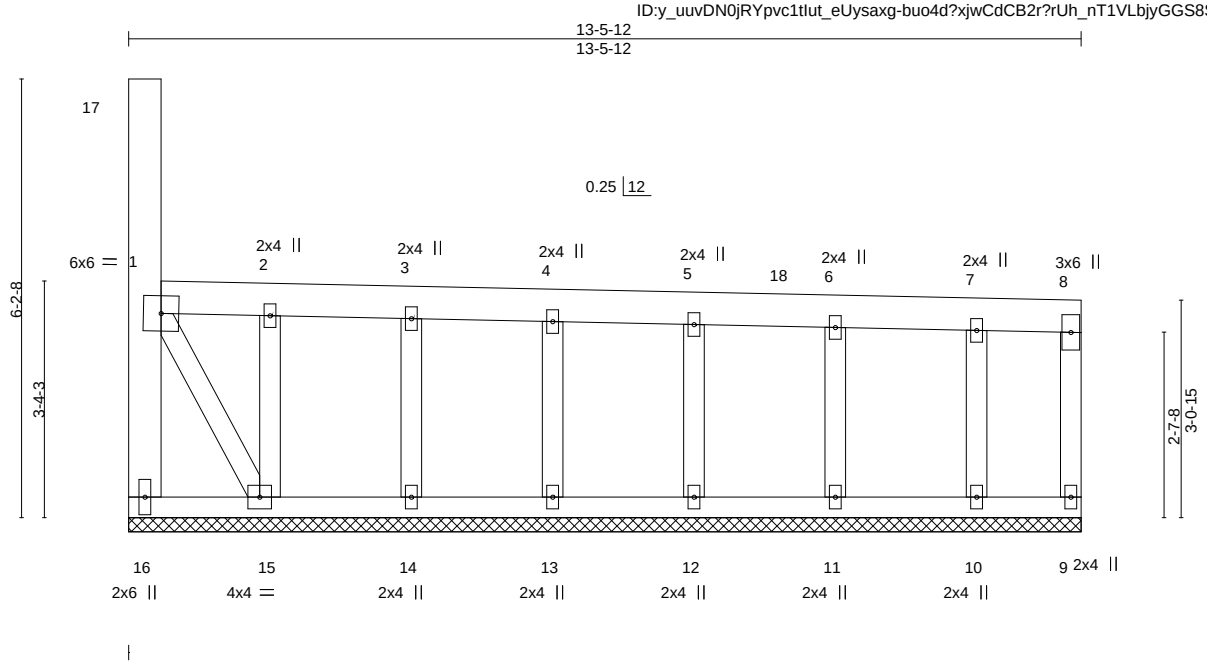

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 94 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 16-17: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-5-12.
(lb) - Max Horz 16=-173(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-336(LC 11), 15=-326(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 13, 12, 11, 10 except 16=359(LC 14), 15=510(LC 24), 14=291(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-428/787
BOT CHORD	15-16=-246/392
WEBS	2-15=-266/184, 3-14=-251/109, 1-15=-688/440

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 16 and 326 lb uplift at joint 15.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-70, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-18=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-60, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-18=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-39, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-18=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-65, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-18=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-42, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-18=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-77, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-18=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 8-18=-57, 9-16=-20
   Horz: 1-16=13, 1-17=27, 1-8=3, 8-9=3
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-18=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 8-18=-51, 9-16=-20
   Horz: 1-16=-3, 1-17=-27, 1-8=9, 8-9=-13
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-18=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 8-18=-57, 9-16=-20
   Horz: 1-16=10, 1-17=-18, 1-8=3, 8-9=2
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-18=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 8-18=-51, 9-16=-20
   Horz: 1-16=-2, 1-17=-18, 1-8=9, 8-9=-10
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-18=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 8-18=-70, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-18=-70

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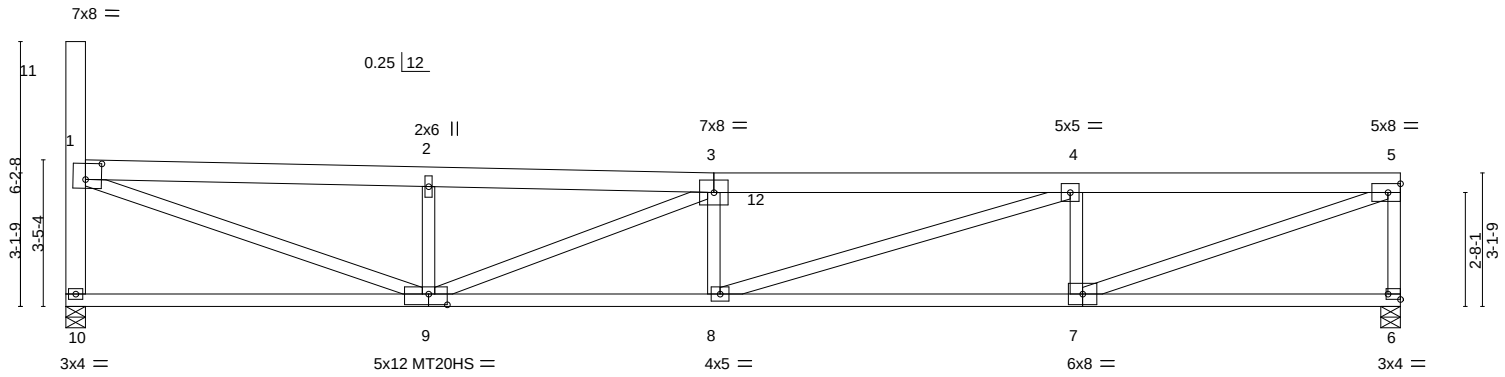
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T08	Roof Special	1	1	I51652873
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:26 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-_IGojXKIELs3jcASZ2oouQ1e?_8pbwLZt_07k0zM7d3

8-6-0 | 15-2-4 | 23-8-4 | 31-3-6
8-6-0 | 6-8-4 | 8-6-0 | 7-7-2

Scale = 1:54.0



8-6-0 | 15-2-4 | 23-8-4 | 31-3-6
8-6-0 | 6-8-4 | 8-6-0 | 7-7-2

Plate Offsets (X,Y)-- [1:0-4-8,0-4-8], [6:Edge,0-1-8], [9:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.28	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.61	7-8	>604	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
7-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-11 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-172(LC 11)
Max Grav 10=1791(LC 22), 6=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1706/334, 1-2=-3543/722, 2-3=-3538/715, 3-4=-4413/822, 4-5=-3330/605, 5-6=-1450/314
BOT CHORD 9-10=-233/309, 8-9=-857/4413, 7-8=-640/3330
WEBS 1-9=-641/3582, 2-9=-767/242, 3-9=-1025/243, 4-8=-228/1208, 4-7=-1041/337, 5-7=-659/3486

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

May 4,2022

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-76, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 3-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-78, 3-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 3-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-66, 3-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-5=-63, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-5=-36, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-5=-58, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-5=-30, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-5=-63, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-5=-36, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-5=-58, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-5=-30, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T8GE	Monopitch Supported Gable	1	1	I51652874
					Job Reference (optional)

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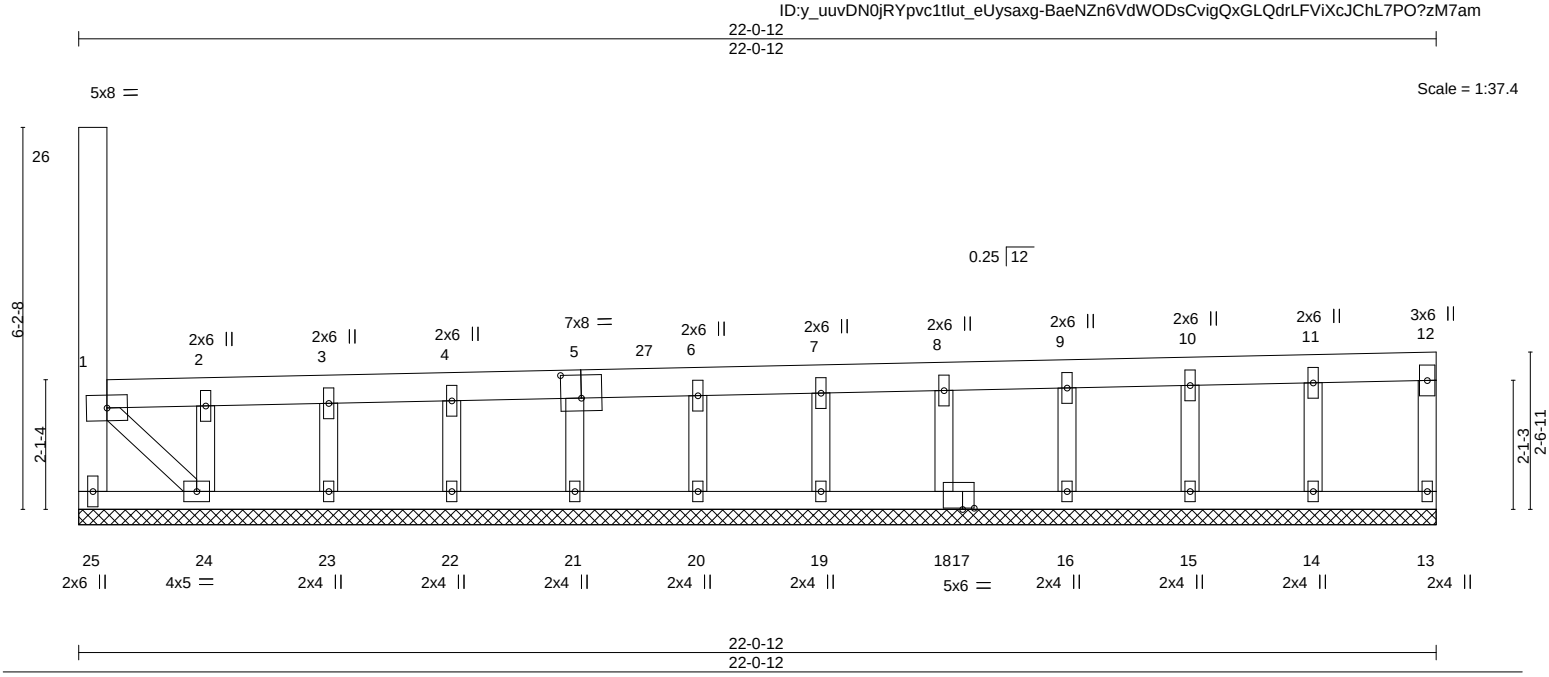

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [17:0-2-4,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 25-26: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 22-0-12.
(lb) - Max Horz 25=201(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 23 except 25=-346(LC 11), 24=-353(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 18, 19, 20, 21 except 25=394(LC 14), 22=256(LC 21), 23=285(LC 21), 24=523(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-25=-430/656
BOT CHORD	24-25=-391/531
WEBS	2-24=-279/194, 1-24=-680/516

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23 except (jt=lb) 25=346, 24=353.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-70, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-27=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-60, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-27=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-65, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-27=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-39, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-27=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-77, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-27=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-42, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-27=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 12-27=-51, 13-25=-20
   Horz: 1-25=13, 1-26=27, 1-12=-9, 12-13=3
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-27=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 12-27=-57, 13-25=-20
   Horz: 1-25=-3, 1-26=-27, 1-12=-3, 12-13=-13
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-27=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 12-27=-51, 13-25=-20
   Horz: 1-25=10, 1-26=-18, 1-12=-9, 12-13=2
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-27=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 12-27=-57, 13-25=-20
   Horz: 1-25=-2, 1-26=-18, 1-12=-3, 12-13=-10
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-27=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-27=-70, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-27=-70

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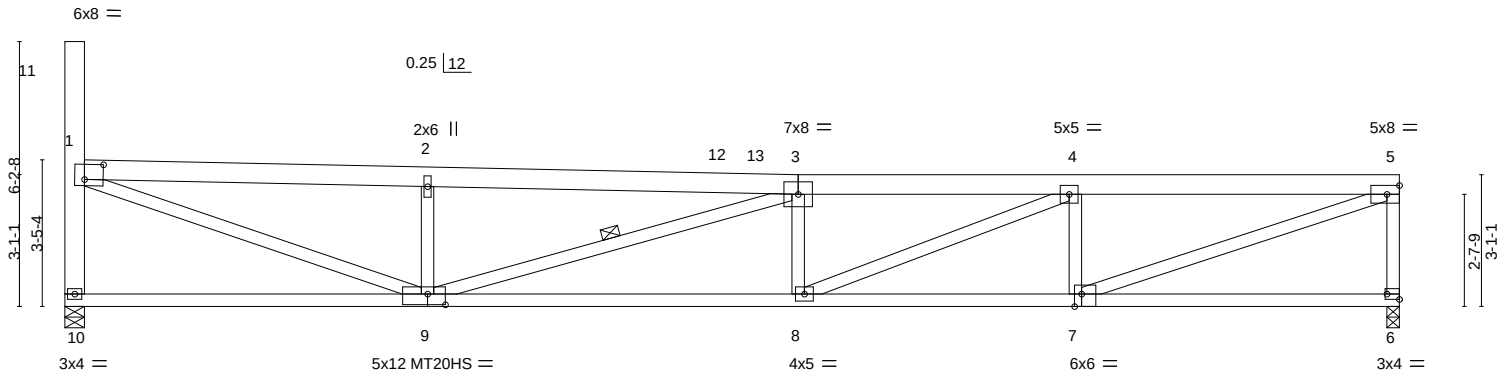
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T09	Roof Special	1	1	I51652875
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:27 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-SVqAwsLw?f_wLmle6mK1RearsOSLKNqi6emgHSzM7d2

8-6-0	17-2-4	23-8-4	31-3-6
8-6-0	8-8-4	6-6-0	7-7-2

Scale = 1:54.0



8-6-0	17-2-4	23-8-4	31-3-6
8-6-0	8-8-4	6-6-0	7-7-2

Plate Offsets (X,Y)-- [1:0-5-4,0-4-4], [6:Edge,0-1-8], [7:0-2-0,Edge], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.29	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.64	8-9	>583	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-15 oc bracing.
WEBS	1 Row at midpt 3-9

REACTIONS. (size) 10=0-5-8, 6=0-3-8
Max Horz 10=-172(LC 11)
Max Grav 10=1791(LC 22), 6=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1712/331, 1-2=-3605/734, 2-3=-3601/727, 3-4=-4422/813, 4-5=-3309/601, 5-6=-1443/317
BOT CHORD	9-10=-229/312, 8-9=-848/4422, 7-8=-636/3309
WEBS	1-9=-658/3662, 2-9=-860/281, 3-9=-933/247, 3-8=-346/175, 4-8=-230/1281, 4-7=-1042/314, 5-7=-653/3445

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-76, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 3-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-78, 3-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 3-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-66, 3-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-5=-63, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-5=-36, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-3=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-5=-58, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-5=-30, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-3=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-36, 3-5=-63, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-63, 3-5=-36, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-3=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-30, 3-5=-58, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-58, 3-5=-30, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-3=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 3-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-78, 3-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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Chesterfield, MO 63017

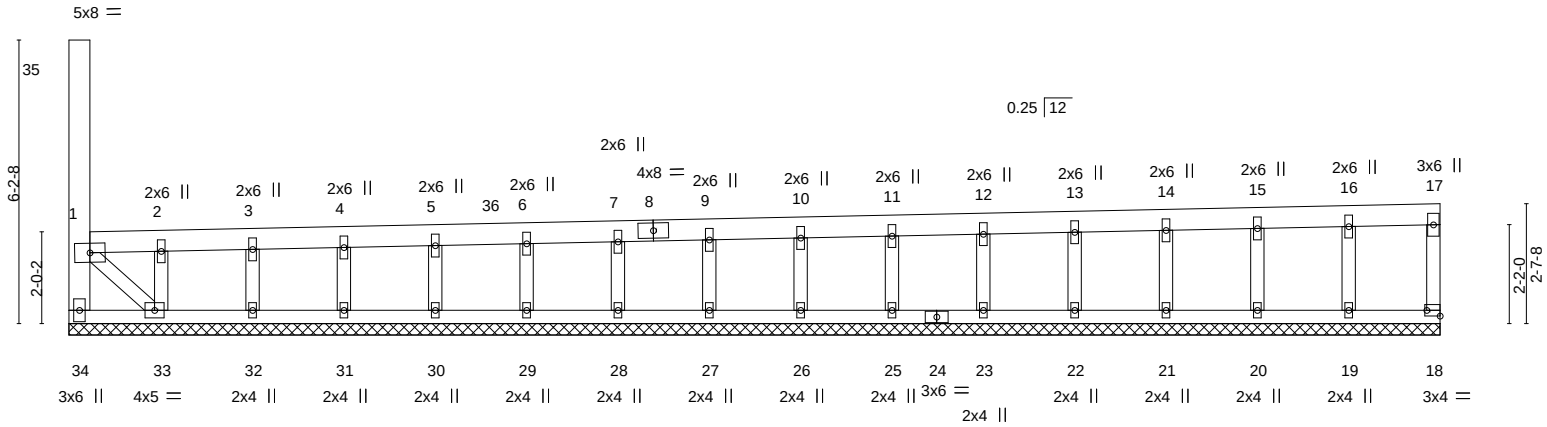
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T9GE	Roof Special Supported Gable	2	1	I51652876
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:05 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-quNv4uF1oCuWI2q?Ny94ry6uv4bhL1MzRD11pIzM7aa

30-0-4
30-0-4

Scale = 1:50.4



30-0-4
30-0-4

Plate Offsets (X,Y)-- [18:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 34-35: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS. All bearings 30-0-4.
(lb) - Max Horz 34=206(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 32 except 34=-356(LC 11), 33=-366(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30 except 34=408(LC 14), 31=253(LC 21), 32=292(LC 21), 33=523(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-34=-411/592
BOT CHORD	33-34=-382/490
WEBS	3-32=-252/86, 2-33=-279/177, 1-33=-622/493

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32 except (jt=lb) 34=356, 33=366.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-70, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-36=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-60, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-36=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-67, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-36=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-39, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-36=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-79, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-36=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-42, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-36=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 17-36=-51, 18-34=-20
   Horz: 1-34=13, 1-35=27, 1-17=-9, 17-18=3
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-36=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 17-36=-57, 18-34=-20
   Horz: 1-34=-3, 1-35=-27, 1-17=-3, 17-18=-13
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-36=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 17-36=-51, 18-34=-20
   Horz: 1-34=10, 1-35=-18, 1-17=-9, 17-18=2
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-36=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 17-36=-57, 18-34=-20
   Horz: 1-34=-2, 1-35=-18, 1-17=-3, 17-18=-10
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-36=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 17-36=-70, 18-34=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-36=-70

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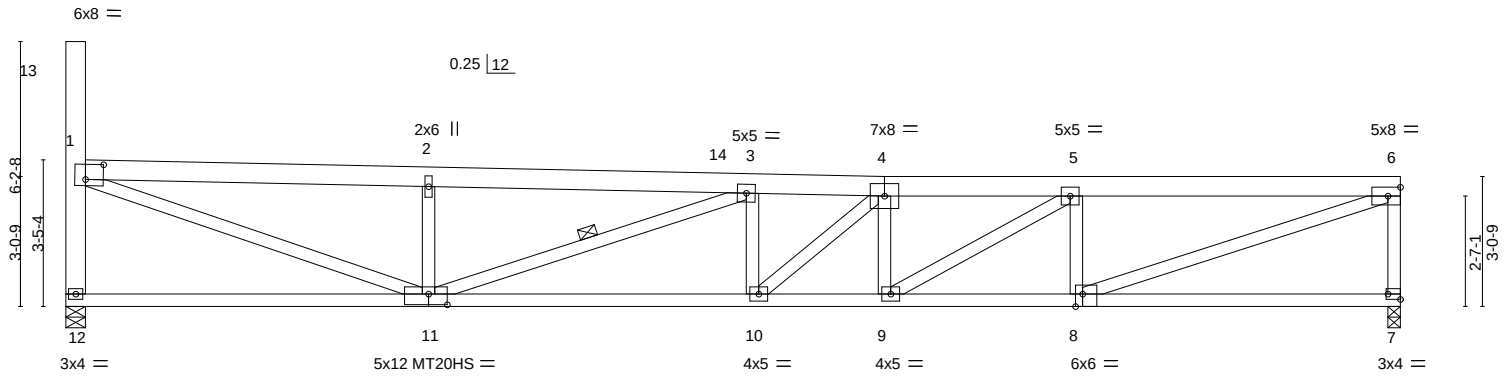
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T10	Roof Special	1	1	I51652877
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:28 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-whNY7CMYmy7nzwKqgTrGzr6?ropL3rEsLIVDpvzM7d1

8-6-0	16-1-2	19-2-4	23-8-4	31-3-6
8-6-0	7-7-2	3-1-2	4-6-0	7-7-2

Scale = 1:54.0



8-6-0	16-1-2	19-2-4	23-8-4	31-3-6
8-6-0	7-7-2	3-1-2	4-6-0	7-7-2

Plate Offsets (X,Y)-- [1:0-5-0,0-4-4], [7:Edge,0-1-8], [8:0-2-0,Edge], [11:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.29	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	10-11	>627	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 197 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-6 oc bracing.
WEBS	1 Row at midpt 3-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-172(LC 11)
Max Grav 12=1791(LC 22), 7=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1709/333, 1-2=-3571/726, 2-3=-3567/719, 3-4=-4417/831, 4-5=-4201/776, 5-6=-3337/604, 6-7=-1442/316
BOT CHORD	11-12=-228/311, 10-11=-864/4415, 9-10=-810/4201, 8-9=-638/3337
WEBS	1-11=-646/3619, 2-11=-800/257, 3-11=-973/262, 4-10=-70/441, 4-9=-515/120, 5-9=-201/1088, 5-8=-1036/313, 6-8=-653/3463

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-76, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-42, 4-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-78, 4-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-39, 4-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-66, 4-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 4-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-78, 4-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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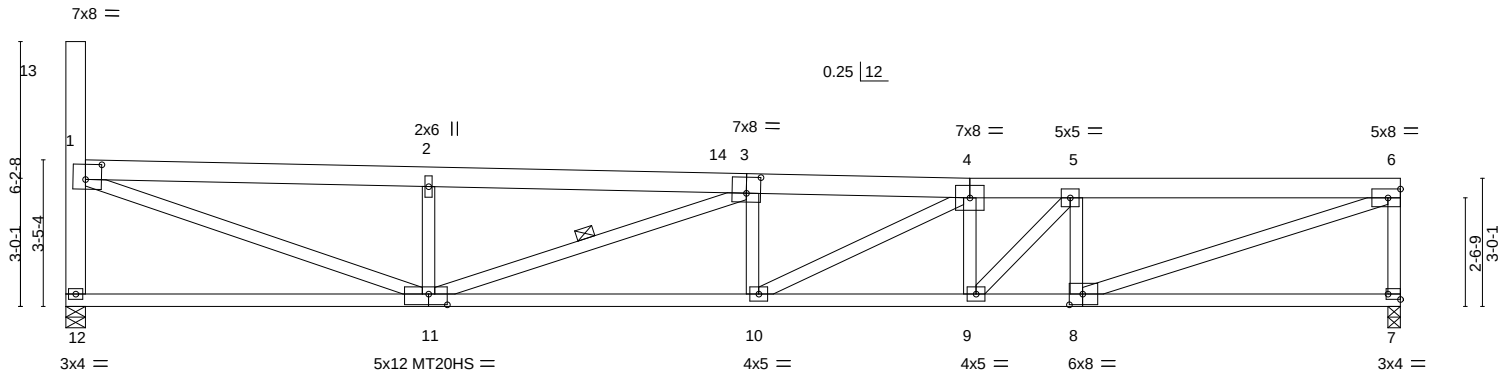
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T11	Roof Special	1	1	I51652878
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-hDsapxSauQ7fw9xN89_8IXRMh0XJxSG1AXRf4RzM7cv

8-6-0	16-1-2	21-2-4	23-8-4	31-3-6
8-6-0	7-7-2	5-1-2	2-6-0	7-7-2

Scale = 1:54.0



8-6-0	16-1-2	21-2-4	23-8-4	31-3-6
8-6-0	7-7-2	5-1-2	2-6-0	7-7-2

Plate Offsets (X,Y)-- [1:0-4-8,0-4-4], [3:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-3-12,0-3-0], [11:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.29	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.59	10-11	>632	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 197 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-2 oc bracing.
WEBS	1 Row at midpt 3-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-172(LC 13)
Max Grav 12=1791(LC 22), 7=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1709/333, 1-2=-3564/725, 2-3=-3560/718, 3-4=-4425/831, 4-5=-3931/719, 5-6=-3377/612, 6-7=-1441/316
BOT CHORD	11-12=-226/311, 10-11=-868/4427, 9-10=-753/3931, 8-9=-646/3377
WEBS	1-11=-644/3610, 2-11=-786/252, 3-11=-991/268, 4-10=-123/700, 4-9=-629/127, 5-9=-155/925, 5-8=-1047/310, 6-8=-660/3495

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-65, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-76, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-42, 4-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-78, 4-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-39, 4-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-66, 4-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-6=-63, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-6=-36, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-4=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-6=-58, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-6=-30, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-4=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-6=-63, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-6=-36, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-4=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-6=-58, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-6=-30, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-4=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 4-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-78, 4-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T11GE	Roof Special Supported Gable	1	1	I51652879
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:42 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-WNEr3?XKTGtoe4OWVP5YYohRRRkWLK9wZTuzI5zM7cp

16-7-12
16-7-12

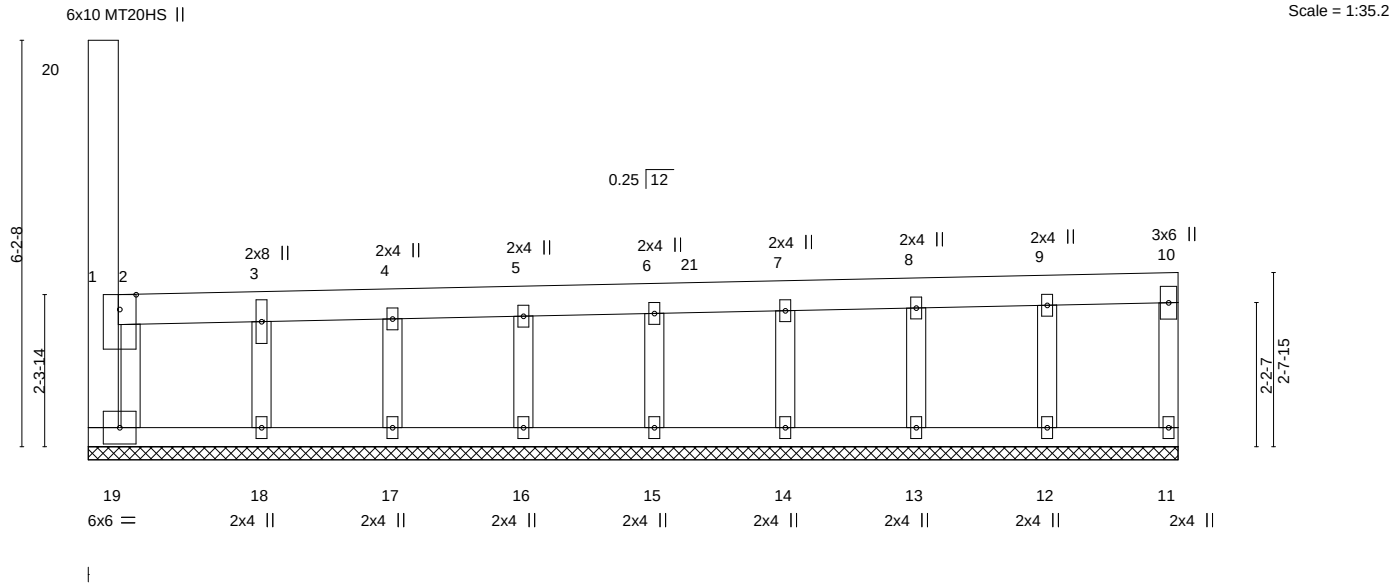

Plate Offsets (X,Y)-- [1:0-2-11,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 100 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.1 *Except* 10-11: 2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-7-12.
(lb) - Max Horz 19=195(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 13, 17 except 19=-297(LC 11), 18=-360(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 14, 15, 16 except 19=376(LC 25), 17=273(LC 25), 18=554(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-457/402
WEBS 3-18=-561/552, 2-19=-718/1032

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 13, 17 except (jt=lb) 19=297, 18=360.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

May 4,2022

LOAD CASE(S) Standard

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-70, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-21=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-60, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-21=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-65, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-21=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-39, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-21=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-77, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-155-to-21=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-42, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-21=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-19=-13, 10-21=-51, 11-19=-20
   Horz: 1-19=13, 1-20=27, 1-10=-9, 10-11=3
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-21=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-19=3, 10-21=-57, 11-19=-20
   Horz: 1-19=-3, 1-20=-27, 1-10=-3, 10-11=-13
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-21=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-19=-10, 10-21=-51, 11-19=-20
   Horz: 1-19=10, 1-20=-18, 1-10=-9, 10-11=2
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-21=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-19=2, 10-21=-57, 11-19=-20
   Horz: 1-19=-2, 1-20=-18, 1-10=-3, 10-11=-10
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-21=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 10-21=-70, 11-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-21=-70

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Chesterfield, MO 63017

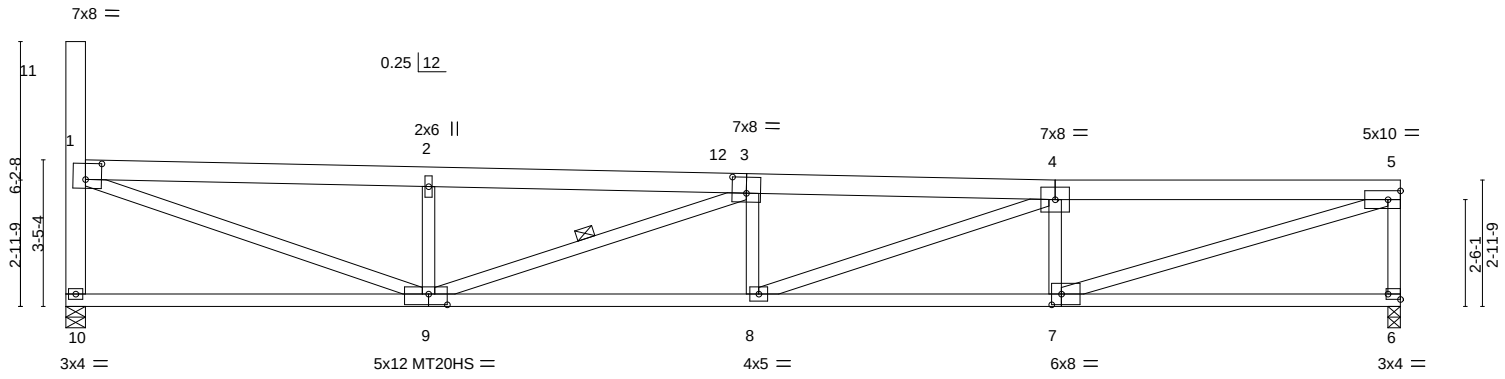
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T12	Roof Special	1	1	I51652880
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:43 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-_anDHLXzEZ0fGEzj27cn40EYhrwy4cm3n7eWqXzM7co

8-6-0 (8-6-0) | 16-1-2 (7-7-2) | 23-2-4 (7-1-2) | 31-3-6 (8-1-2)

Scale = 1:54.0



8-6-0 (8-6-0) | 16-1-2 (7-7-2) | 23-2-4 (7-1-2) | 31-3-6 (8-1-2)

Plate Offsets (X,Y)-- [1:0-4-8,0-4-8], [3:0-4-0,0-4-8], [6:Edge,0-1-8], [7:0-2-12,0-3-0], [9:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.29	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.60	8-9	>621	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS	1 Row at midpt 3-9

REACTIONS. (size) 10=0-5-8, 6=0-3-8
Max Horz 10=-172(LC 11)
Max Grav 10=1791(LC 22), 6=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1709/333, 1-2=-3557/724, 2-3=-3553/717, 3-4=-4455/839, 4-5=-3585/635, 5-6=-1439/318
BOT CHORD	9-10=-225/312, 8-9=-876/4457, 7-8=-668/3585
WEBS	1-9=-642/3601, 2-9=-767/247, 3-9=-1025/279, 4-8=-213/1092, 4-7=-984/311, 5-7=-675/3670

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-76, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-42, 4-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-78, 4-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-39, 4-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-66, 4-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-5=-63, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-5=-36, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-5=-58, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-5=-30, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-5=-63, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-5=-36, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-5=-58, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-5=-30, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 4-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-78, 4-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T12GE	Roof Special Supported Gable	1	1	I51652881
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:44 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-SmLbUgYb?t8WuNYvcq70dDnuRFTQpHlD0nN4MzzM7cn

21-8-12
21-8-12

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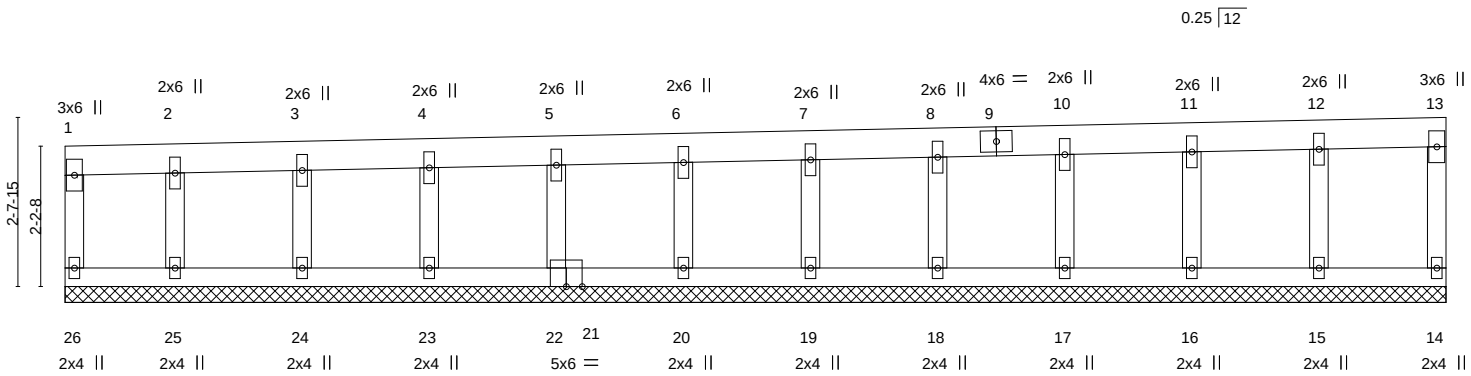

21-8-12
21-8-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-8-12.
(lb) - Max Horz 26=49(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 26, 14, 25
Max Grav All reactions 250 lb or less at joint(s) 26, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 14, 25.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

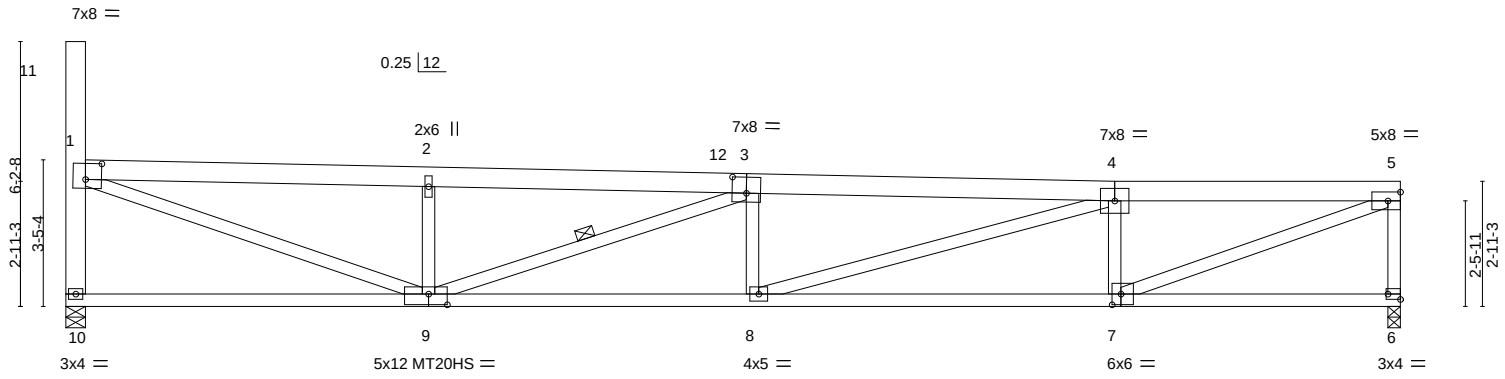
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T13	Roof Special	1	1	I51652882
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:45 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-wyv_i0ZDmBGNVX75AYeF9RJtwecYYXaMFR7duQzM7cm

8-6-0 (8-6-0) | 16-1-2 (7-7-2) | 24-7-0 (8-5-14) | 31-3-6 (6-8-6)

Scale = 1:54.0



8-6-0 (8-6-0) | 16-1-2 (7-7-2) | 24-7-0 (8-5-14) | 31-3-6 (6-8-6)

Plate Offsets (X,Y)-- [1:0-4-8,0-4-8], [3:0-4-0,0-4-8], [6:Edge,0-1-8], [7:0-2-8,0-3-0], [9:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.29	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.61	7-8	>611	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS	1 Row at midpt 3-9

REACTIONS. (size) 10=0-5-8, 6=0-3-8
Max Horz 10=-172(LC 11)
Max Grav 10=1797(LC 36), 6=1519(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1714/334, 1-2=-3546/722, 2-3=-3543/715, 3-4=-4502/847, 4-5=-3192/560, 5-6=-1459/307
BOT CHORD	9-10=-223/312, 8-9=-884/4506, 7-8=-593/3192
WEBS	1-9=-639/3587, 2-9=-745/238, 3-9=-1084/292, 3-8=-276/180, 4-8=-295/1503, 4-7=-1067/323, 5-7=-611/3362

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-1-10, Corner(3) 16-1-10 to 31-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-65, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-76, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-42, 4-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-78, 4-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-39, 4-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-4=-66, 4-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-5=-63, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-5=-36, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-4=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-5=-58, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-5=-30, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-4=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-36, 4-5=-63, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-63, 4-5=-36, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-4=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-30, 4-5=-58, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-58, 4-5=-30, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-4=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 4-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-78, 4-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

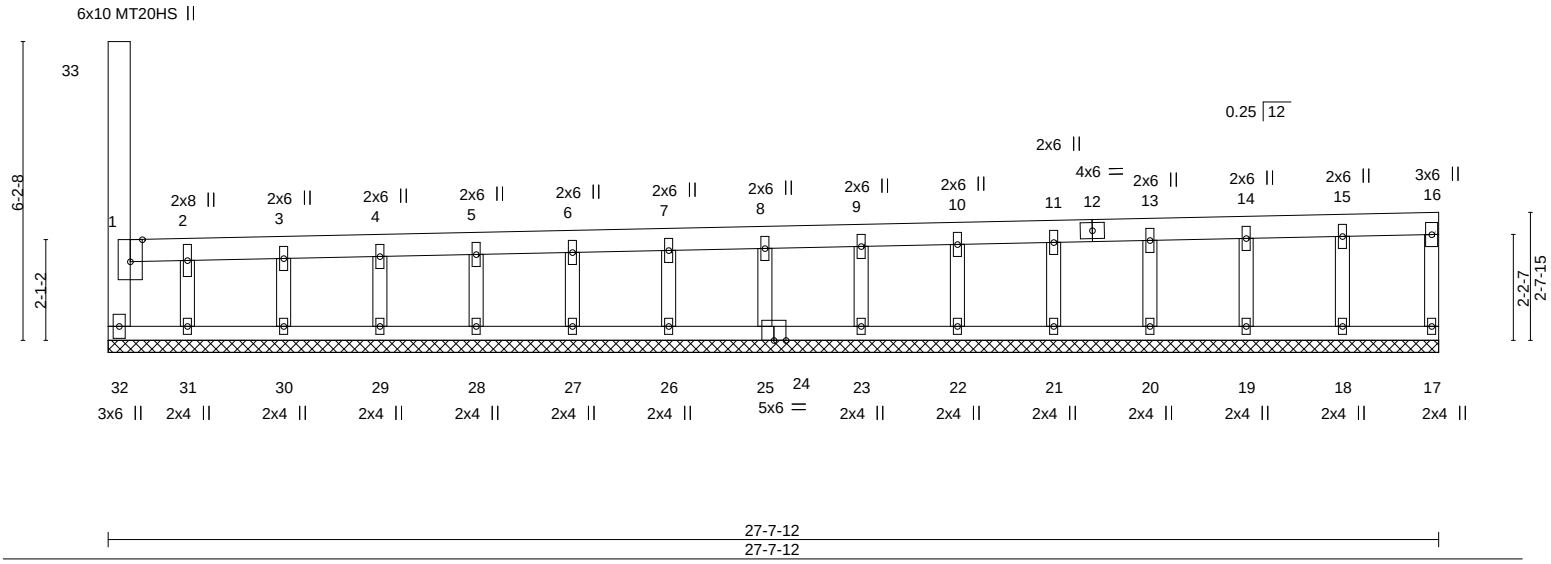
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T13GE	Monopitch Supported Gable	1	1	I51652883
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:47 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-tL1k7ibTIoW5lrHUHzhjFsPJoSRz0d0filckzIzM7ck

27-7-12
27-7-12

Scale: 1/4"=1'



27-7-12
27-7-12

Plate Offsets (X,Y)-- [1:0-5-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.1 *Except* 16-17: 2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-7-12.
(lb) - Max Horz 32=204(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 30 except 32=-451(LC 11), 31=-507(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30 except 32=498(LC 14), 31=577(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-32=-427/614
WEBS 2-31=-599/545

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 30 except (jt=lb) 32=451, 31=507.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

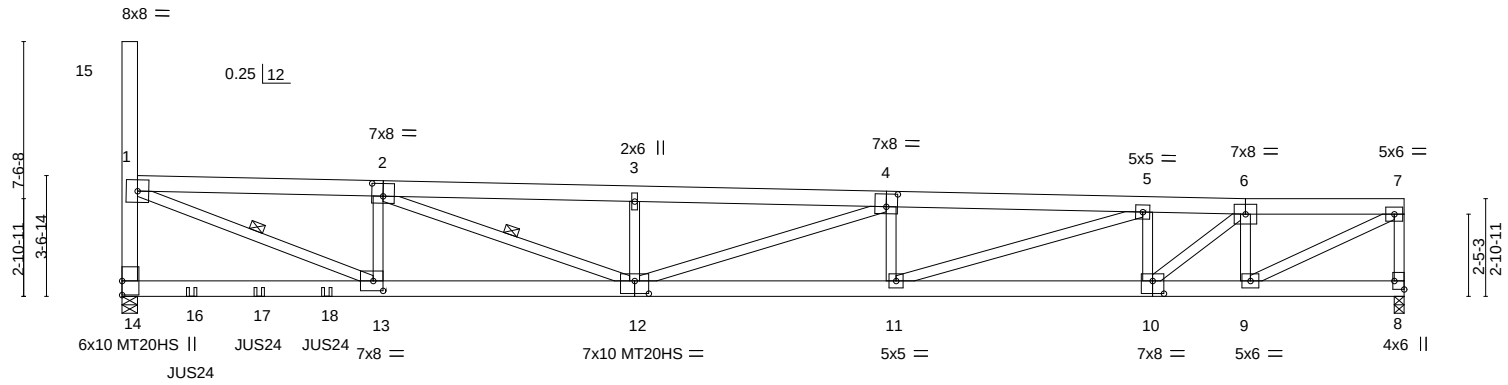
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T14	Roof Special Girder	1	1	I51652884
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-pj9UXOcjqPmp_9QsPOjBKHUc9GyTUMMyA35r1BzM7ci

7-6-15	15-2-1	22-9-3	30-4-5	33-3-1	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	2-10-12	4-8-6

Scale = 1:68.2



7-6-15	15-2-1	22-9-3	30-4-5	33-3-1	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	2-10-12	4-8-6

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [8:Edge,0-3-8], [10:0-4-0,0-4-8], [12:0-5-0,0-4-8], [13:0-3-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.45	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.90	11-12	>501	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 269 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 12-14: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-8-12 oc bracing.
WEBS	1 Row at midpt 1-13, 2-12

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-217(LC 57)
Max Uplift 14=-1182(LC 16), 8=-91(LC 12)
Max Grav 14=2860(LC 82), 8=1874(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-2205/924, 1-2=-4941/2380, 2-3=-6325/2068, 3-4=-6326/2062, 4-5=-6562/1756, 5-6=-4645/1075, 6-7=-3041/673, 7-8=-1792/421
BOT CHORD	13-14=-484/612, 12-13=-2388/4996, 11-12=-1794/6580, 10-11=-1103/4644, 9-10=-703/3041
WEBS	1-13=-2150/4860, 2-13=-1447/556, 2-12=-964/2274, 3-12=-549/199, 4-12=-590/460, 4-11=-505/292, 5-11=-711/2070, 5-10=-1216/402, 6-10=-523/2151, 6-9=-1610/414, 7-9=-767/3381

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 14=1182.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 67, 68, 69, 70, 77, 78, 79, 80, 81, 82, 83, 84 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

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NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-68
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-59
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-38
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-65, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-2=-64
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-40
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-77, 8-14=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-2=-76
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
   Concentrated Loads (lb)
   Vert: 16=322(B) 17=323(B) 18=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-55
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
   Concentrated Loads (lb)
   Vert: 16=322(B) 17=323(B) 18=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
   Concentrated Loads (lb)
   Vert: 16=322(B) 17=323(B) 18=323(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-55
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-50

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-68

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 6-7=-78, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-40

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 6-7=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-77

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 6-7=-66, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-78(B) 17=-78(B) 18=-78(B)
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-38

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 6-7=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-78(B) 17=-78(B) 18=-78(B)
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-65

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-34

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-62

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-29

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-56

Continued on page 4

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LOAD CASE(S) Standard

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-34

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-62

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-29

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Concentrated Loads (lb)
Vert: 16=322(B) 17=323(B) 18=323(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-56

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 6-7=-78, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-40

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 6-7=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-77

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-55

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-50

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-55

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)

Continued on page 5

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-50

77) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-34

78) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-62

79) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-29

80) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-56

81) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-34

82) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-62

83) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-29

84) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Concentrated Loads (lb)
Vert: 16=-405(B) 17=-405(B) 18=-406(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-56

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T14GE	Roof Special Supported Gable	1	1	I51652885
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-l6GFy4e_M10WDSaFWolfPiZ4m3s9ySOEdNax63zM7cg

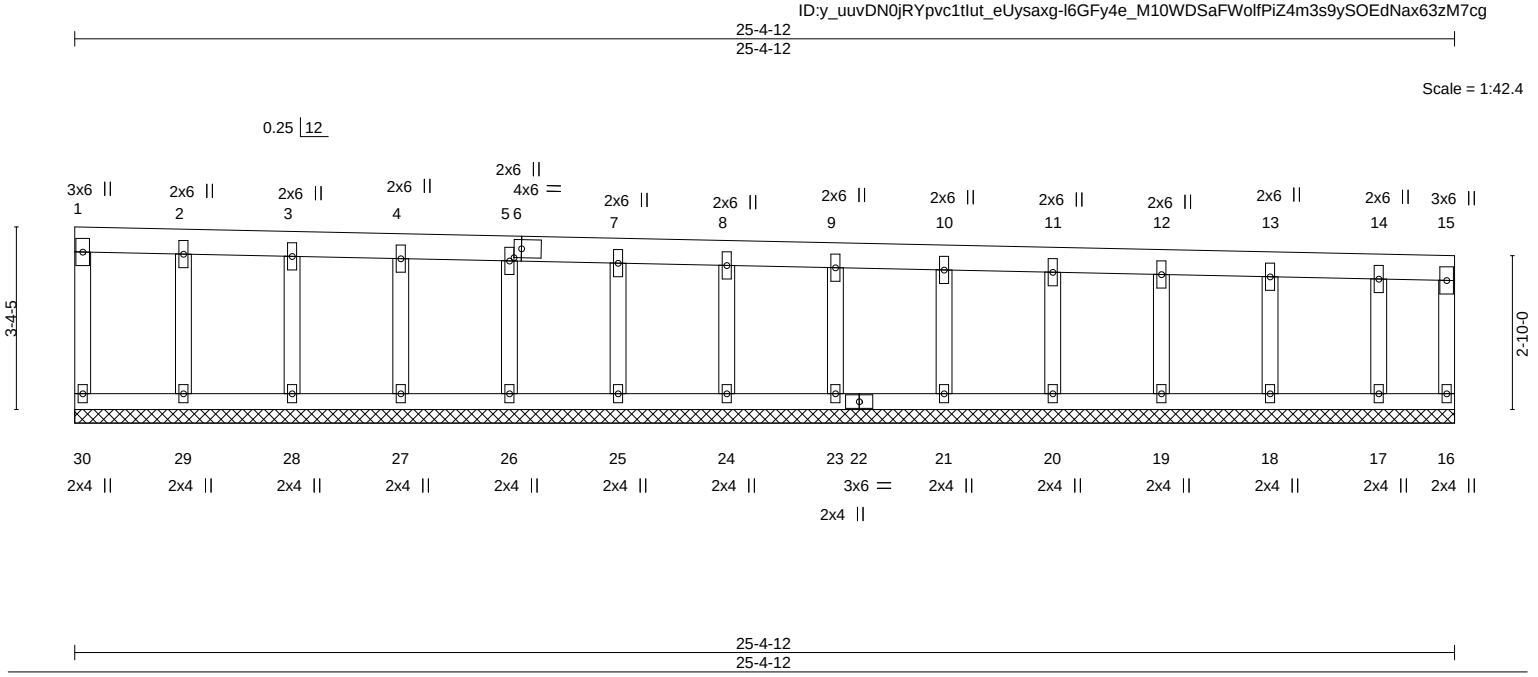

Plate Offsets (X,Y)-- [6:0-1-10,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-12.
(lb) - Max Horz 30=-64(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 30, 16, 29, 17
Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 16, 29, 17.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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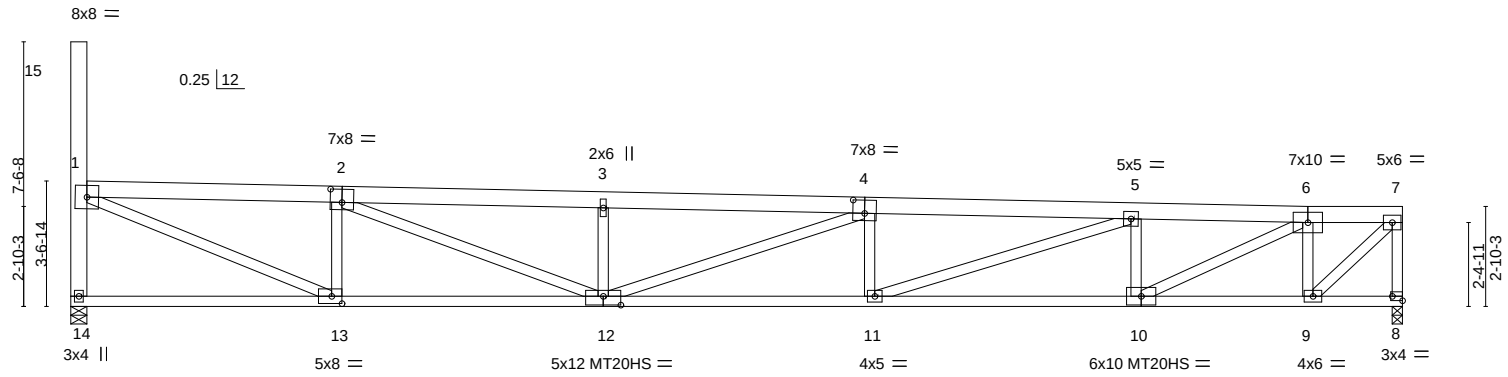
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T15	Roof Special	1	1	I51652886
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:52 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-DIqdAQec6K8Nrc9R4WGuyv67bT1PhkfOs1JVeWzM7cf

7-6-15	15-2-1	22-9-3	30-4-5	35-3-1	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	4-10-12	2-8-6

Scale = 1:65.7



7-6-15	15-2-1	22-9-3	30-4-5	35-3-1	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	4-10-12	2-8-6

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [8:Edge,0-1-8], [12:0-6-0,0-3-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.45	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.92	11-12	>489	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.15	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 239 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 12-14: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-3-6 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-219(LC 11)
Max Grav 14=2127(LC 36), 8=1846(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-2052/313, 1-2=-3925/718, 2-3=-6003/937, 3-4=-6003/932, 4-5=-6293/914, 5-6=-4428/624, 6-7=-1790/237, 7-8=-1817/269
BOT CHORD	13-14=-282/415, 12-13=-736/3989, 11-12=-946/6310, 10-11=-651/4425, 9-10=-266/1790
WEBS	1-13=-545/4122, 2-13=-1500/313, 2-12=-372/2168, 3-12=-553/182, 4-12=-349/141, 4-11=-482/193, 5-11=-301/1965, 5-10=-1210/273, 6-10=-431/2977, 6-9=-1652/287, 7-9=-347/2461

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20

May 4,2022

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-65, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-77, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 6-7=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 6-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 6-7=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 6-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-6=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-6=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 6-7=-63, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-63, 6-7=-36, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-6=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-123-to-2=-63

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-30, 6-7=-58, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-90-to-2=-30

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-58, 6-7=-30, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-6=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-58

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 6-7=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 6-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T15GE	Roof Special Supported Gable	2	1	I51652887
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:54 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-AhyNb5gseyO54wJqCxJM1KBb4Huv9o7hJKocjOzM7cd

25-4-10
25-4-10

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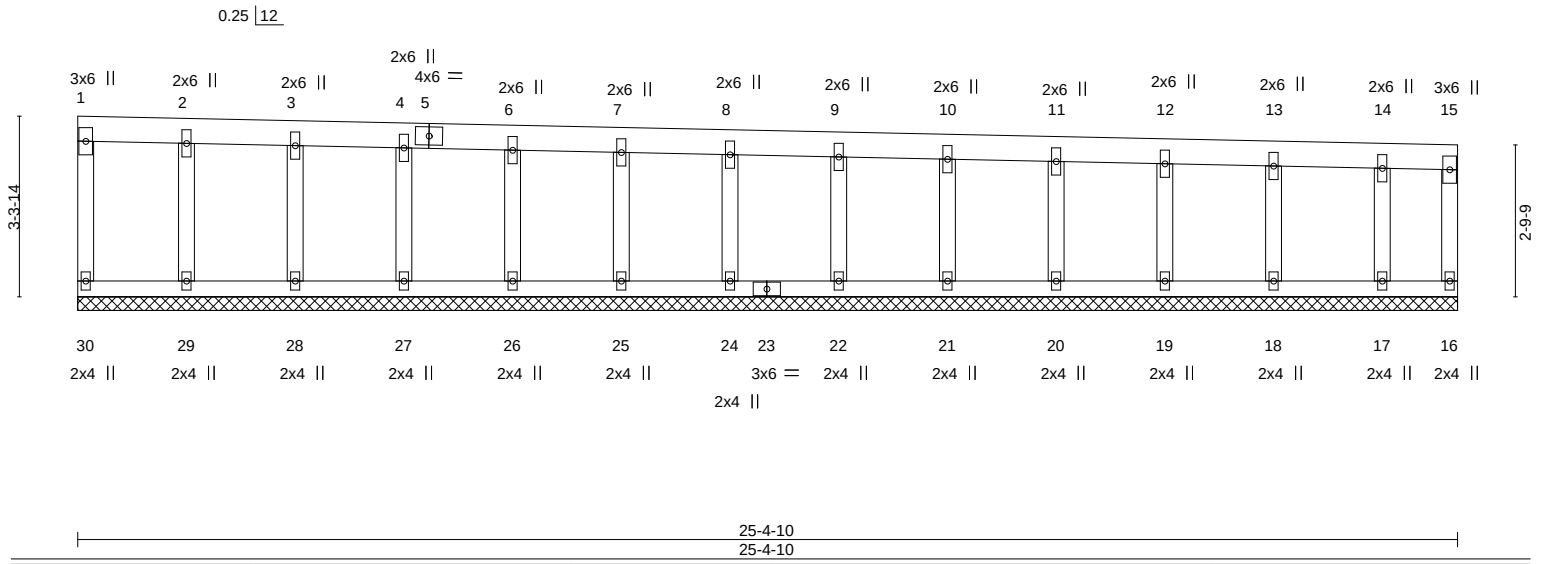

25-4-10
25-4-10

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-4-10.
(lb) - Max Horz 30=-63(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 30, 16, 29, 17
Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 16, 29, 17.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T16	Roof Special	1	1	I51652888
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-etWmoRhUPFWyi4u0leqbZYkecg1uu3cqY_Y9FrzM7cc

7-6-15	15-2-1	22-9-3	30-4-5	37-3-1	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	6-10-12	0-8-6

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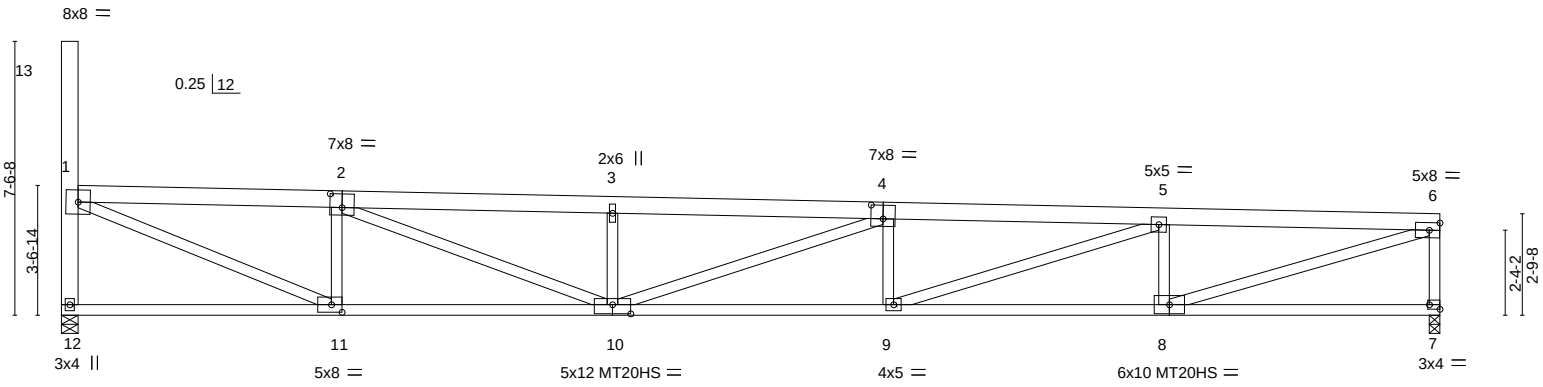

7-6-15	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	7-7-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [7:Edge,0-1-8], [10:0-6-0,0-3-0], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.49	9-10	>920	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.99	9-10	>457	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.14	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 235 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-12: 2x4 SP No.1, 8-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-3-8 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-219(LC 13)
Max Grav 12=2162(LC 22), 7=1902(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2088/313, 1-2=-3996/718, 2-3=-6124/938, 3-4=-6124/933, 4-5=-6421/915, 5-6=-4580/629, 6-7=-1827/298
BOT CHORD	11-12=-280/416, 10-11=-734/4062, 9-10=-944/6438, 8-9=-654/4573
WEBS	1-11=-545/4198, 2-11=-1531/313, 2-10=-372/2220, 3-10=-570/184, 4-10=-342/140, 4-9=-478/185, 5-9=-296/1943, 5-8=-1305/306, 6-8=-667/4714

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-68, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-128-to-2=-68
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-80, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-160-to-2=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T16GE	Roof Special Supported Gable	1	1	I51652889
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:57 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-aGeWD7ilxtmgyN1Pt3s3fzp6XUvUM8c7?I1GKjzM7ca

31-9-10
31-9-10

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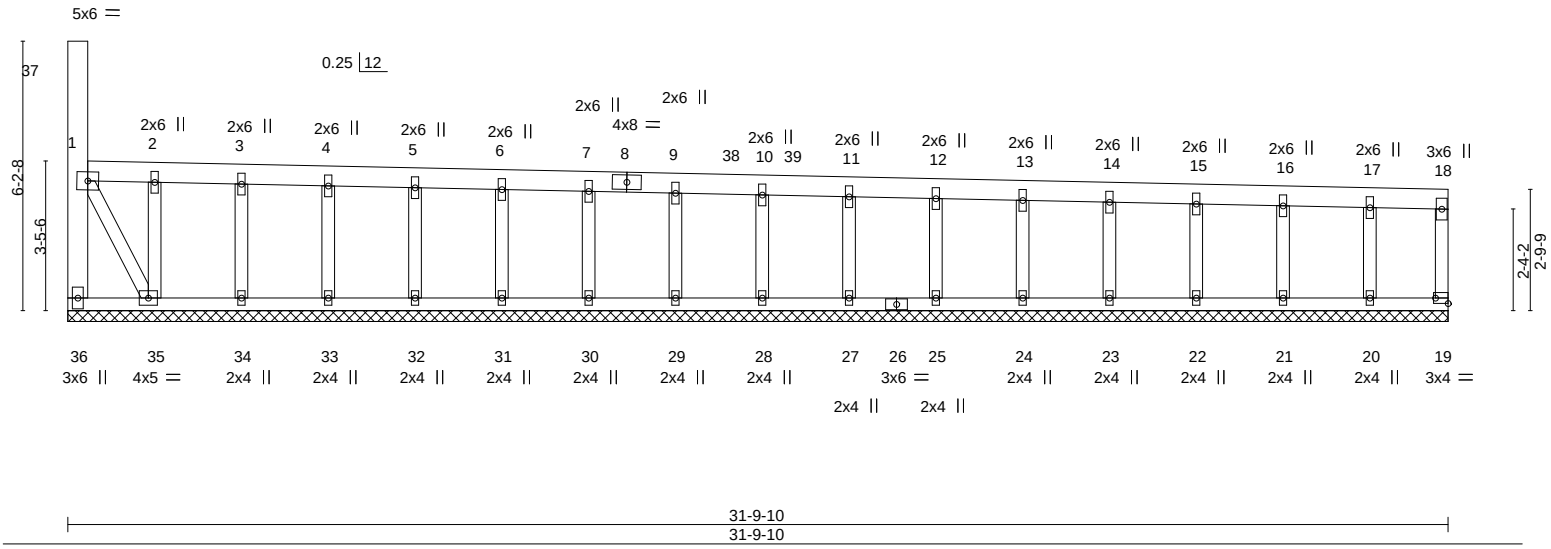

31-9-10
31-9-10

Plate Offsets (X,Y)-- [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	19	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 195 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 36-37: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-9-10.
(lb) - Max Horz 36=-172(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 36=-327(LC 11), 35=-297(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 19, 34, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20 except 36=336(LC 14), 35=425(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-36=-320/565
BOT CHORD	35-36=-181/301
WEBS	1-35=-531/325

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-14, Corner(3) 16-7-14 to 31-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 36=327, 35=297.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

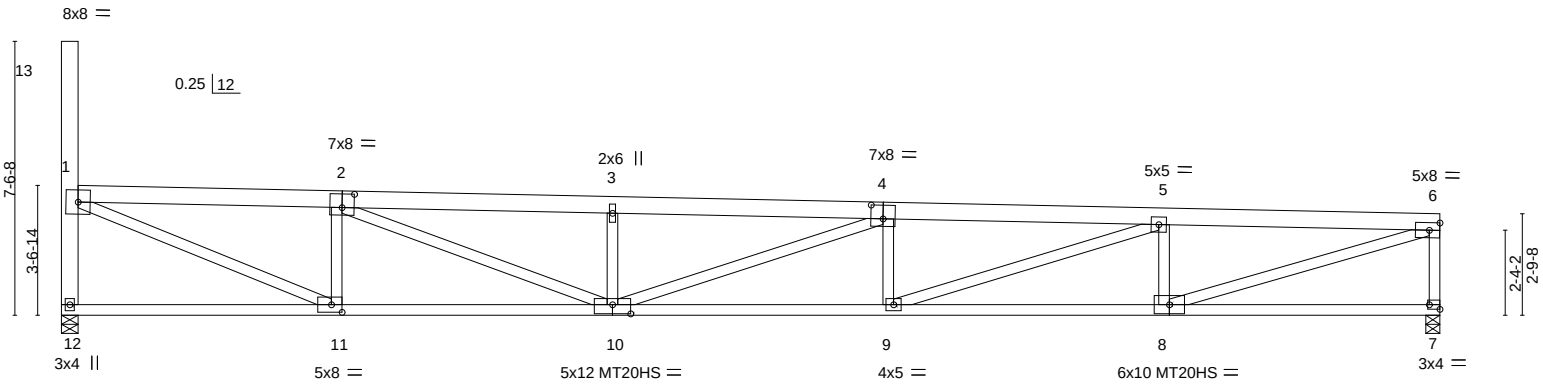
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T17	Roof Special	4	1	I51652890
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-2SBuQTjNiAuXZXcbRnNIBAM8su3a5QMGEymps9zM7cZ

7-6-15	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	7-7-2

Scale: 3/16"=1'



7-6-15	15-2-1	22-9-3	30-4-5	37-11-7
7-6-15	7-7-2	7-7-2	7-7-2	7-7-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [7:Edge,0-1-8], [10:0-6-0,0-3-0], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.49	9-10	>920	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.99	9-10	>457	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.14	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 235 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-12: 2x4 SP No.1, 8-10: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11,6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-3-8 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-4-10
Max Horz 12=-219(LC 11)
Max Grav 12=2162(LC 22), 7=1902(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2088/313, 1-2=-3996/718, 2-3=-6124/938, 3-4=-6124/933, 4-5=-6421/915, 5-6=-4580/629, 6-7=-1827/298
BOT CHORD	11-12=-280/416, 10-11=-734/4062, 9-10=-944/6438, 8-9=-654/4573
WEBS	1-11=-545/4198, 2-11=-1531/313, 2-10=-372/2220, 3-10=-570/184, 4-10=-342/140, 4-9=-478/185, 5-9=-296/1943, 5-8=-1305/306, 6-8=-667/4714

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-11, Corner(3) 22-9-11 to 37-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-68, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-68

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-80, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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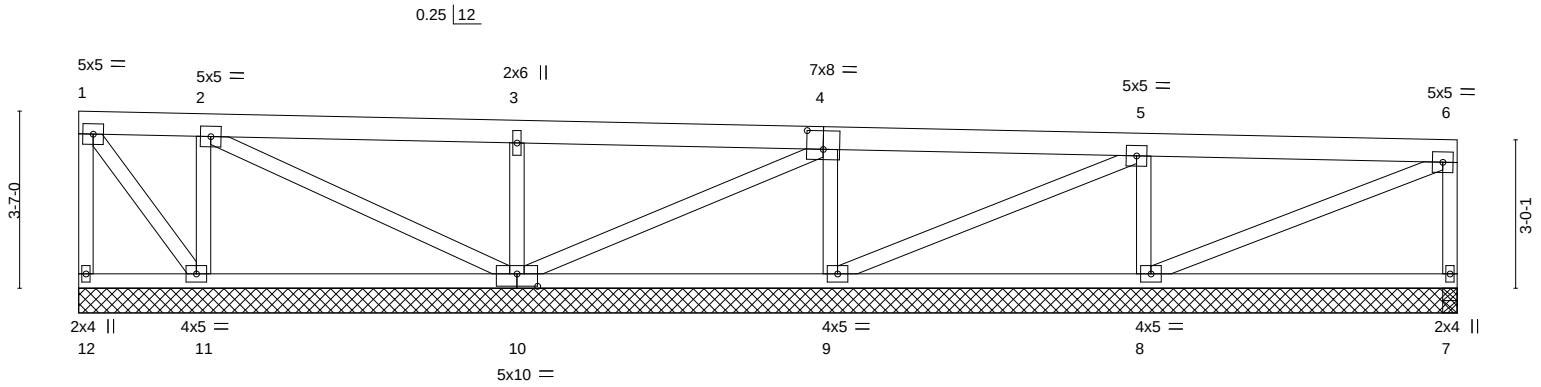
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T18	Roof Special	1	1	I51652891
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-_rJfr9ldEo9Fprm_YBPmGbRaahvWZVAZiGFww2zM7cX

2-6-5	8-10-7	15-2-9	21-6-11	27-10-13
2-6-5	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:46.6



2-6-5	8-10-7	15-2-9	21-6-11	27-10-13
2-6-5	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.00	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 174 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 27-10-13.
(lb) - Max Horz 12=-68(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12
Max Grav All reactions 250 lb or less at joint(s) 12, 7, 7 except 11=735(LC 22), 10=766(LC 22), 9=586(LC 22), 8=674(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-11=-635/163, 3-10=-572/203, 4-9=-443/186, 5-8=-534/216

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-149-to-3=-71
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-61

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-40
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-121-to-3=-43
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=13, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-116-to-3=-58
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=10, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-116-to-3=-58
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-149-to-3=-71

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

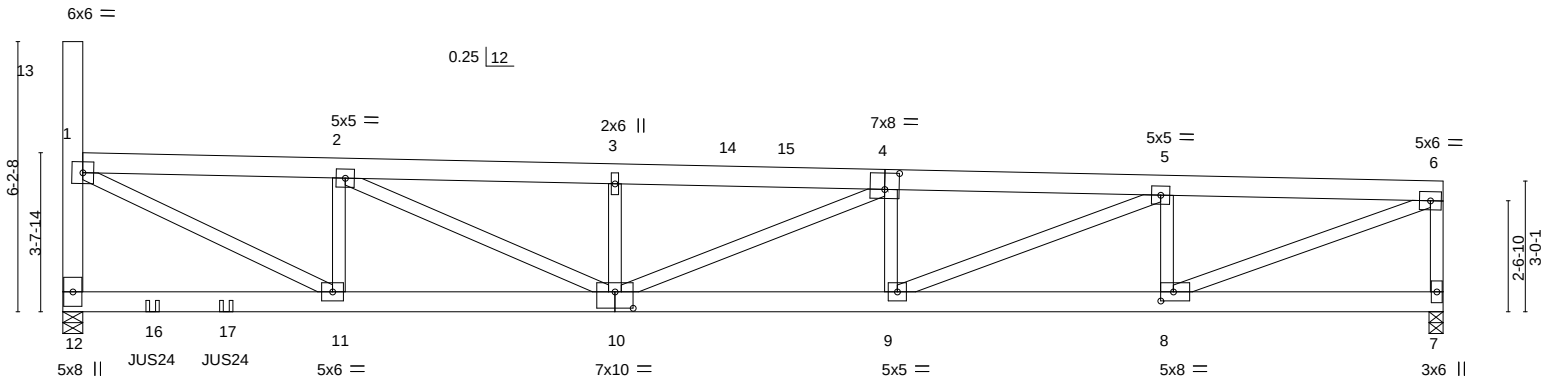
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T19	Roof Special Girder	1	1	I51652892
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-xDRPGqmtmPPz28wMgcSEM0WvjVUk1ECs9ak1?xzM7cV

6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [8:0-3-8,0-2-8], [10:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.23	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.45	9-10	>838	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 226 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-3-8 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-167(LC 11)
Max Uplift 12=-483(LC 16), 7=-5(LC 12)
Max Grav 12=1955(LC 22), 7=1586(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1773/537, 1-2=-2874/1076, 2-3=-4224/1094, 3-4=-4225/1088, 4-5=-4363/999, 5-6=-3046/638, 6-7=-1510/351
BOT CHORD	11-12=-275/380, 10-11=-1083/2867, 9-10=-1033/4377, 8-9=-667/3041
WEBS	1-11=-975/3084, 2-11=-1222/422, 2-10=-541/1502, 3-10=-475/185, 4-9=-424/209, 5-9=-386/1428, 5-8=-1113/356, 6-8=-690/3218

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 12=483.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 3-9-1 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 4,2022

LOAD CASE(S) Standard

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=196(B) 17=197(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=196(B) 17=197(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=196(B) 17=197(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=196(B) 17=197(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-279(B) 17=-279(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-279(B) 17=-279(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-279(B) 17=-279(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-279(B) 17=-279(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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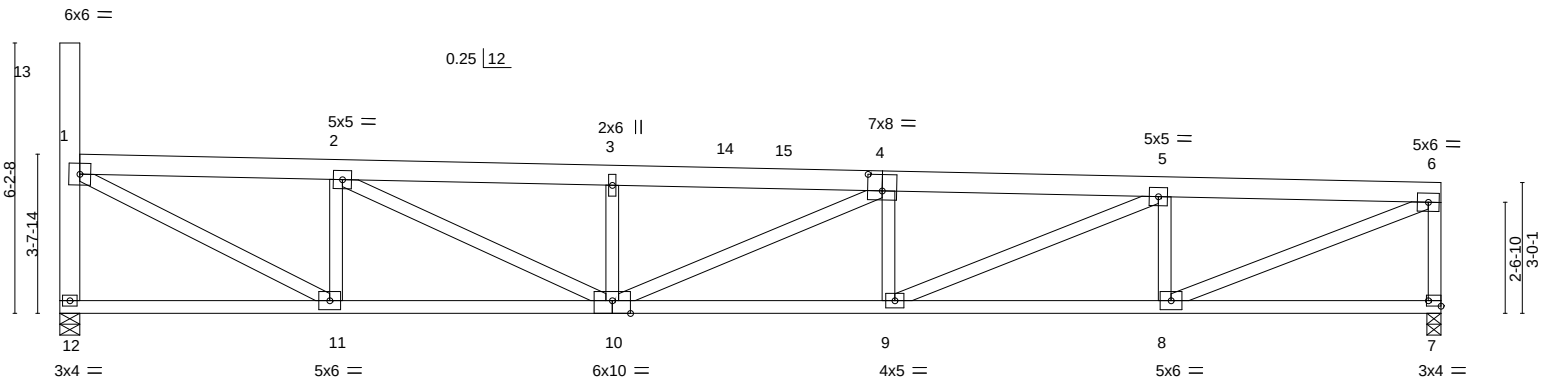
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T20	Roof Special	21	1	I51652893
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:06 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-p?gw6CpOpevOXmD8vSWAWshbf6puz3XS4CjE8izM7cR

6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:Edge,0-1-8], [10:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.24	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.49	9-10	>774	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-1-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-169(LC 11)
Max Grav 12=1782(LC 22), 7=1570(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1720/319, 1-2=-2659/571, 2-3=-4037/765, 3-4=-4037/760, 4-5=-4178/746, 5-6=-2938/509, 6-7=-1507/305
BOT CHORD	11-12=-192/301, 10-11=-579/2652, 9-10=-779/4192, 8-9=-539/2933
WEBS	1-11=-497/2906, 2-11=-1252/315, 2-10=-324/1540, 3-10=-482/178, 4-9=-415/176, 5-9=-252/1352, 5-8=-1097/304, 6-8=-563/3128

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

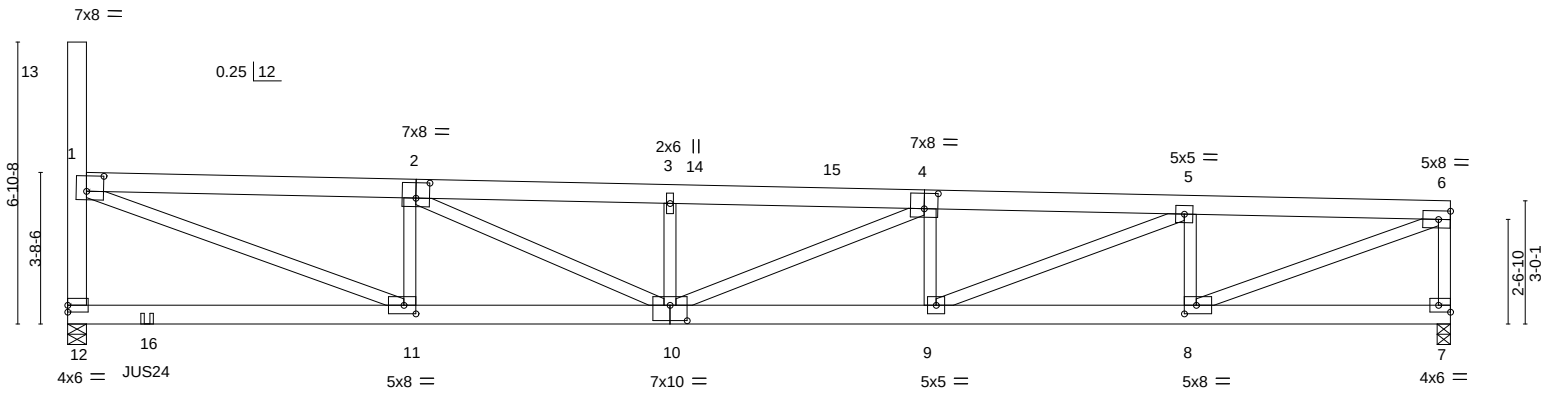
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T21	Roof Special Girder	3	1	I51652894
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:08 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-lNogXureLF96m3NW0tZebHmqvwWHRwGlXWCLCazM7cP

8-4-2	14-8-4	21-0-6	27-4-8	33-8-10
8-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:56.2



8-4-2	14-8-4	21-0-6	27-4-8	33-8-10
8-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-5-0,0-4-8], [2:0-4-0,0-4-8], [4:0-4-0,0-4-8], [7:Edge,0-2-0], [8:0-3-8,0-2-8], [10:0-5-0,0-4-8], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.29	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.57	9-10	>704	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 240 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-191(LC 43)
Max Uplift 12=-282(LC 16)
Max Grav 12=2051(LC 22), 7=1691(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1872/383, 1-2=-3718/892, 2-3=-4859/950, 3-4=-4861/946, 4-5=-4820/876, 5-6=-3283/565, 6-7=-1615/317
BOT CHORD 11-12=-304/407, 10-11=-910/3770, 9-10=-909/4840, 8-9=-594/3278
WEBS 1-11=-738/3775, 2-11=-1259/364, 2-10=-359/1210, 3-10=-420/157, 4-9=-523/197, 5-9=-331/1667, 5-8=-1208/323, 6-8=-613/3471

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-6-14, Corner(3) 18-6-14 to 33-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=282.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=254(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=254(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=254(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=254(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-337(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-337(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-337(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-337(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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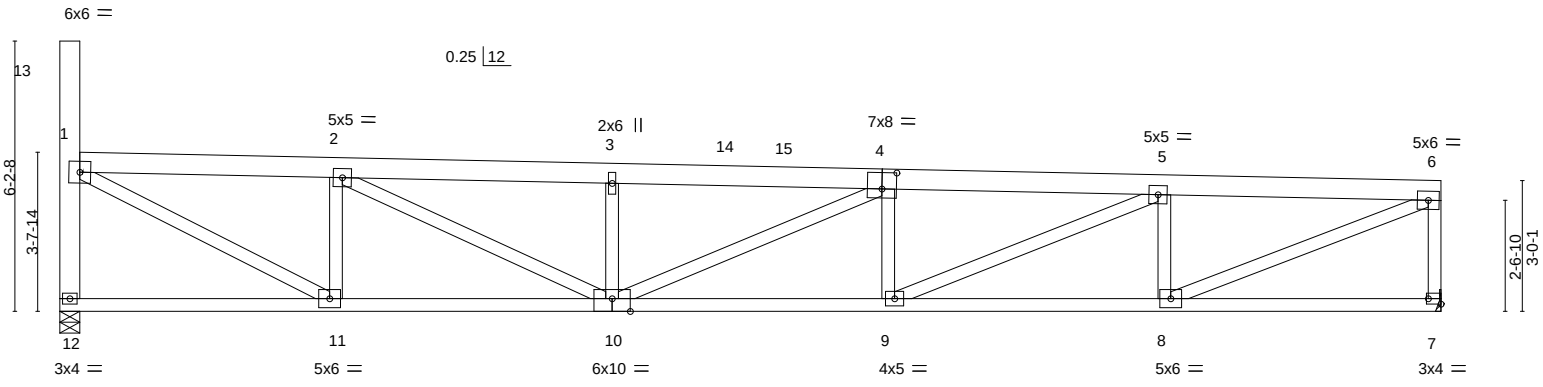
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T22	Roof Special	6	1	I51652895
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:10 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-imwQyZsutsPq?NXv8Ib6gisHejAqvsW1?qhSHTzM7cN

6-4-2	12-8-4	19-0-6	25-4-8	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-4

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-8	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-4

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:Edge,0-1-8], [10:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.24	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.49	9-10	>773	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-1-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-169(LC 11)
Max Grav 12=1783(LC 22), 7=1570(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1721/319, 1-2=-2660/571, 2-3=-4039/765, 3-4=-4039/760, 4-5=-4182/746, 5-6=-2943/509, 6-7=-1508/305
BOT CHORD	11-12=-192/301, 10-11=-579/2653, 9-10=-779/4195, 8-9=-539/2937
WEBS	1-11=-496/2907, 2-11=-1252/315, 2-10=-324/1542, 3-10=-482/178, 4-9=-415/176, 5-9=-252/1350, 5-8=-1096/304, 6-8=-563/3132

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

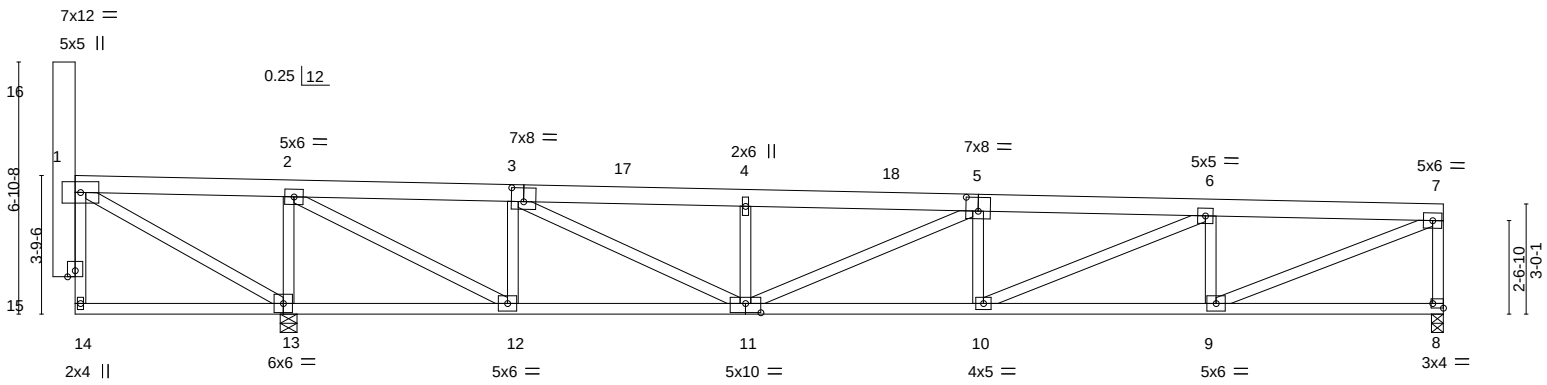
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T23	Roof Special	5	1	I51652896
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:12 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-e92BMFu9PUfYFhhHFjdal7xcrXtSNmsKS8AYMLzM7cL

6-5-2	12-6-8	18-10-10	25-2-12	31-6-14	37-11-0
6-5-2	6-1-6	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:62.8



6-2-6	6-5-2	12-6-8	18-10-10	25-2-12	31-6-14	37-11-0
6-2-6	0-2-12	6-1-6	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-0], [15:0-2-0,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.21	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.44	10-11	>854	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 246 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 15-16: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-3-14, 13=0-5-8
Max Horz 13=-191(LC 11)
Max Grav 8=1482(LC 22), 13=2496(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-469/671, 2-3=-1864/346, 3-4=-3452/526, 4-5=-3452/522, 5-6=-3786/532, 6-7=-2736/366, 7-8=-1420/232
BOT CHORD	12-13=-664/554, 11-12=-355/1860, 10-11=-555/3779, 9-10=-395/2731
WEBS	1-13=-829/251, 2-13=-1946/356, 2-12=-422/2815, 3-12=-1217/287, 3-11=-325/1821, 4-11=-529/159, 5-11=-366/148, 5-10=-332/145, 6-10=-175/1144, 6-9=-1011/243, 7-9=-409/2910

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-5-6 to 15-5-6, Exterior(2) 15-5-6 to 22-9-4, Corner(3) 22-9-4 to 37-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-62

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-41

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-68, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-70

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-45

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-83

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=-13, 1-16=-27, 2-7=-57, 13-14=-10, 8-13=-20
Horz: 1-14=13, 1-16=27, 1-7=3, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-59

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=3, 1-16=27, 2-7=-51, 8-14=-20
Horz: 1-14=-3, 1-16=-27, 1-7=9, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-53

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=-10, 1-16=18, 2-7=-57, 8-14=-20
Horz: 1-14=10, 1-16=-18, 1-7=3, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-59

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=2, 1-16=18, 2-7=-51, 8-14=-20
Horz: 1-14=-2, 1-16=-18, 1-7=9, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-53

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-73

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

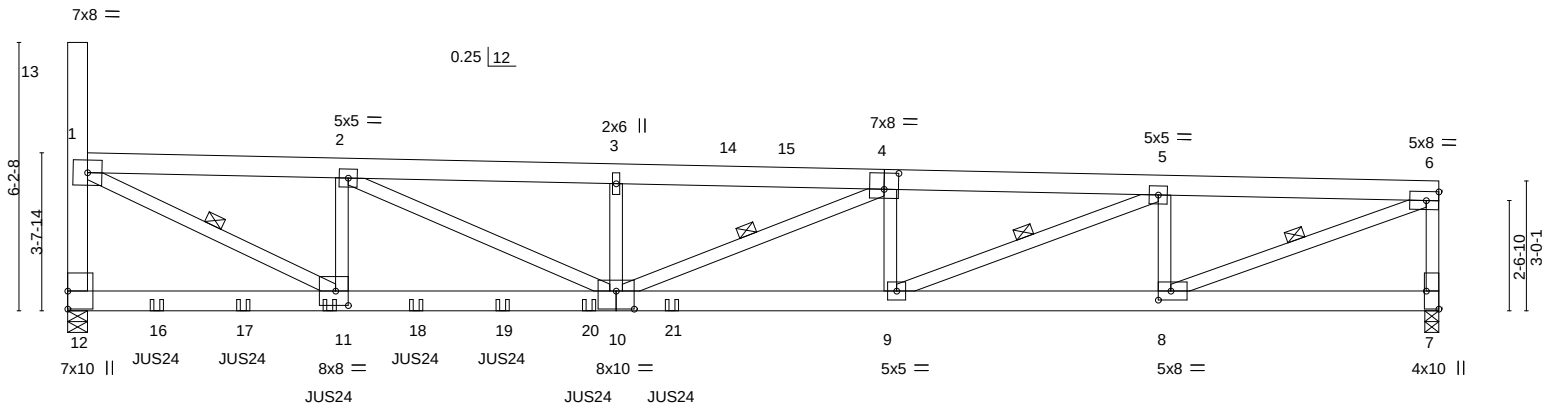
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T25	Roof Special Girder	1	1	I51652897
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:14 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-aX9xnxvPx5vGU_rgN8g3rY0vbKWxrdadwSffQEzM7cJ

6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:53.3



6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-8,0-2-8], [10:0-5-0,0-5-0], [11:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.44	10-11	>857	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.54	9-10	>697	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 226 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-10-12 oc bracing.
WEBS	1 Row at midpt 1-11, 4-10, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-167(LC 11)
Max Uplift 12=-1533(LC 16), 7=-493(LC 12)
Max Grav 12=2852(LC 55), 7=1735(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2526/1644, 1-2=-4663/3256, 2-3=-6402/4197, 3-4=-6403/4192, 4-5=-5566/3157, 5-6=-3485/1754, 6-7=-1658/834
BOT CHORD	11-12=-283/390, 10-11=-3263/4668, 9-10=-3213/5607, 8-9=-1783/3489
WEBS	1-11=-3427/4962, 2-11=-1351/630, 2-10=-1151/1977, 3-10=-469/182, 4-10=-1282/1266, 4-9=-747/658, 5-9=-1517/2258, 5-8=-1294/810, 6-8=-1883/3700

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1533, 7=493.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 13-11-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 11=198(F) 16=196(F) 17=197(F) 18=198(F) 19=199(F) 20=200(F) 21=200(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 11=198(F) 16=196(F) 17=197(F) 18=198(F) 19=199(F) 20=200(F) 21=200(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 11=198(F) 16=196(F) 17=197(F) 18=198(F) 19=199(F) 20=200(F) 21=200(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 11=198(F) 16=196(F) 17=197(F) 18=198(F) 19=199(F) 20=200(F) 21=200(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 11=-280(F) 16=-279(F) 17=-280(F) 18=-281(F) 19=-282(F) 20=-282(F) 21=-283(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-280(F) 16=-279(F) 17=-280(F) 18=-281(F) 19=-282(F) 20=-282(F) 21=-283(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 11=-280(F) 16=-279(F) 17=-280(F) 18=-281(F) 19=-282(F) 20=-282(F) 21=-283(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-280(F) 16=-279(F) 17=-280(F) 18=-281(F) 19=-282(F) 20=-282(F) 21=-283(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T26	Roof Special	1	1	I51652898
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:15 2022 Page 1
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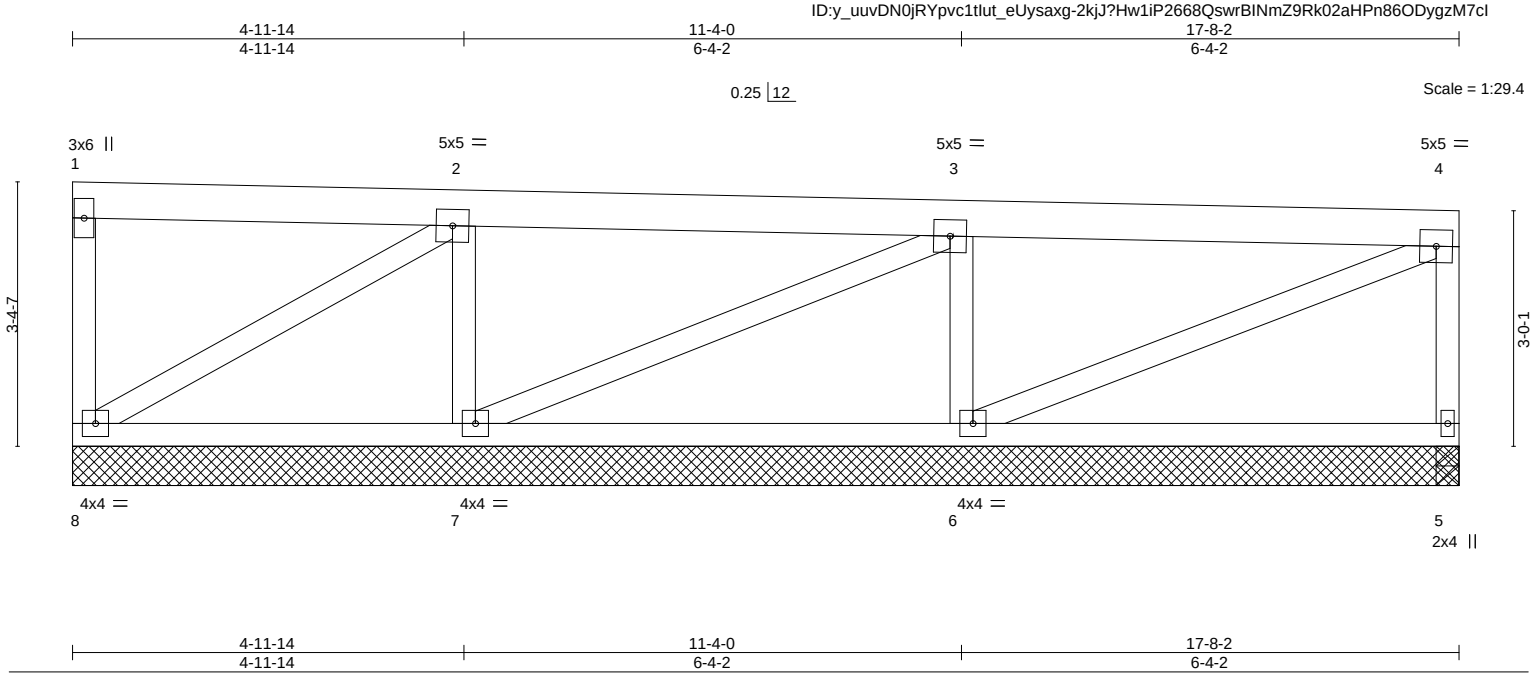

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	6	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 109 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-8-2.
(lb) - Max Horz 8=-64(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 8, 5, 5 except 7=578(LC 22), 6=678(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-453/258, 3-6=-544/294

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
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Chesterfield, MO 63017

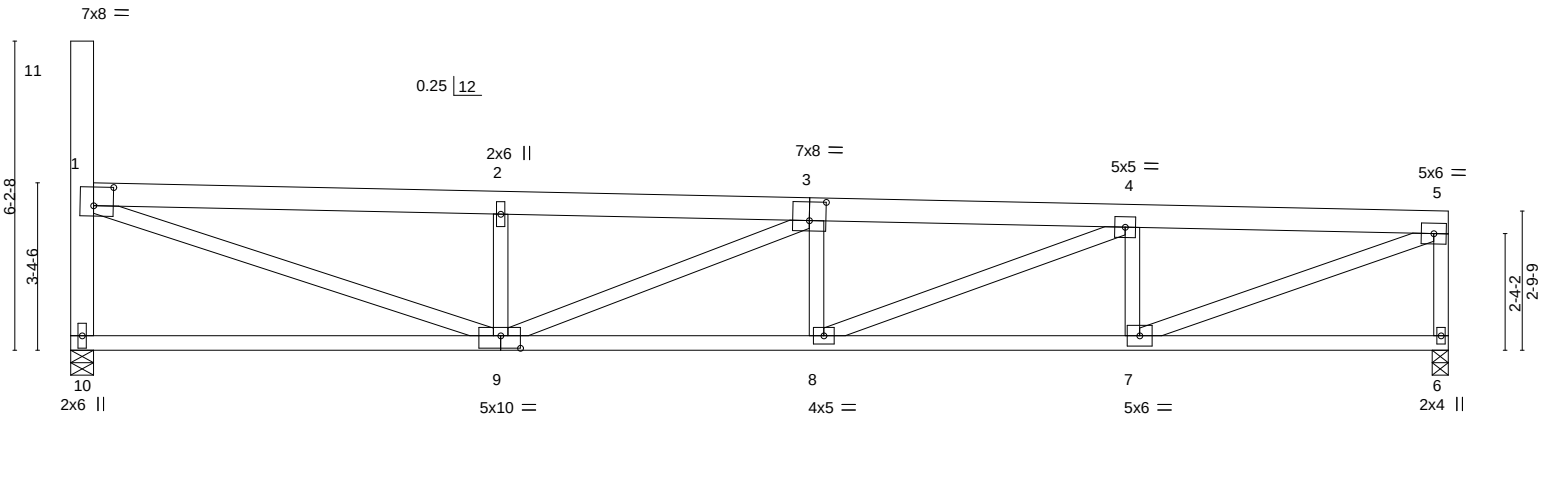
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T28	Roof Special	10	1	I51652899
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:16 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-WwHiCdxfTiAzjI_3UYiXwz5BA8ESJY5wNm8mV7zM7cH

8-7-10 | 14-11-12 | 21-3-14 | 27-8-0
8-7-10 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:46.3



8-7-10 | 14-11-12 | 21-3-14 | 27-8-0
8-7-10 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [1:0-4-12,0-4-8], [3:0-4-0,0-4-8], [9:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.39	8-9	>841	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 173 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-3 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=-173(LC 11)
Max Grav 10=1644(LC 22), 6=1377(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1558/347, 1-2=-3209/733, 2-3=-3203/726, 3-4=-3598/773, 4-5=-2718/561, 5-6=-1315/316
BOT CHORD 9-10=-233/332, 8-9=-803/3604, 7-8=-590/2713
WEBS 1-9=-660/3200, 2-9=-745/257, 3-9=-534/207, 4-8=-222/947, 4-7=-911/308, 5-7=-609/2850

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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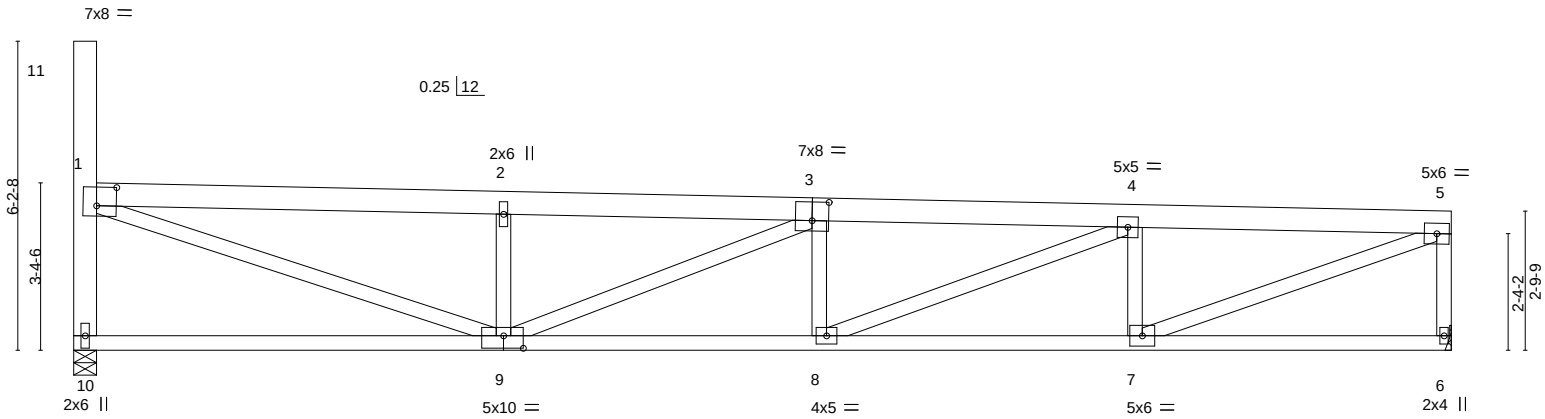
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T29	Roof Special	4	1	I51652900
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:17 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-_6r4QzyIE0IqLSZF2GDmSBeMwYag2?L3cPtJ1ZzM7cG

8-7-10	14-11-12	21-3-14	27-8-2
8-7-10	6-4-2	6-4-2	6-4-4

Scale = 1:46.3



8-7-10	14-11-12	21-3-14	27-8-2
8-7-10	6-4-2	6-4-2	6-4-4

Plate Offsets (X,Y)-- [1:0-4-12,0-4-8], [3:0-4-0,0-4-8], [9:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.39	8-9	>840	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 173 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-173(LC 11)
Max Grav 10=1645(LC 22), 6=1378(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1559/347, 1-2=-3210/734, 2-3=-3205/726, 3-4=-3601/773, 4-5=-2723/562, 5-6=-1315/316
BOT CHORD 9-10=-233/332, 8-9=-803/3607, 7-8=-590/2717
WEBS 1-9=-660/3201, 2-9=-745/257, 3-9=-535/208, 4-8=-221/945, 4-7=-911/308, 5-7=-610/2854

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-42, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-78, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-70, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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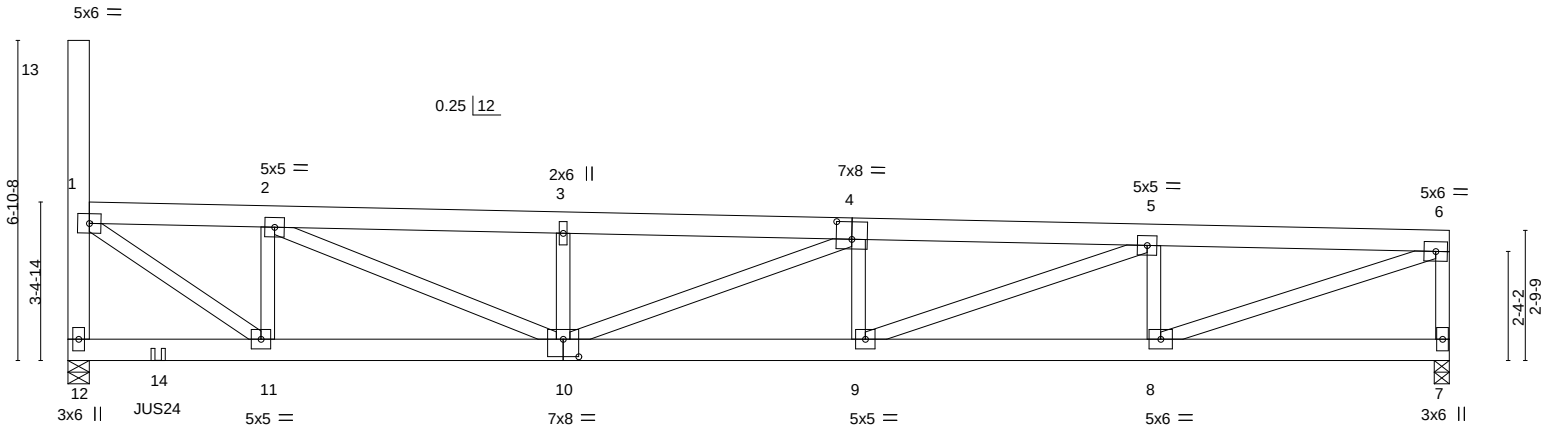
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T30	Roof Special Girder	3	1	I51652901
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:21 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-tt4bFK?oHFoGq3t0H6lid1pAT9zi_rMfX1rXAKzM7cC

4-3-8	10-7-10	16-11-12	23-3-14	29-8-0
4-3-8	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:49.5



4-3-8	10-7-10	16-11-12	23-3-14	29-8-0
4-3-8	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.19	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.39	9-10	>896	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-0-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-195(LC 43)
Max Uplift 12=-217(LC 16)
Max Grav 12=1690(LC 22), 7=1459(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1587/438, 1-2=-1979/746, 2-3=-3707/951, 3-4=-3707/945, 4-5=-4109/933, 5-6=-2981/630, 6-7=-1382/330
BOT CHORD	11-12=-287/436, 10-11=-751/1973, 9-10=-964/4119, 8-9=-657/2976
WEBS	1-11=-608/2350, 2-11=-1234/344, 2-10=-511/1896, 3-10=-491/198, 4-10=-454/217, 4-9=-309/184, 5-9=-319/1209, 5-8=-987/328, 6-8=-670/3101

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=217.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 14=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 14=200(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 14=200(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 14=200(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 14=200(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 14=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 14=-283(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 14=-283(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 14=-283(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 14=-283(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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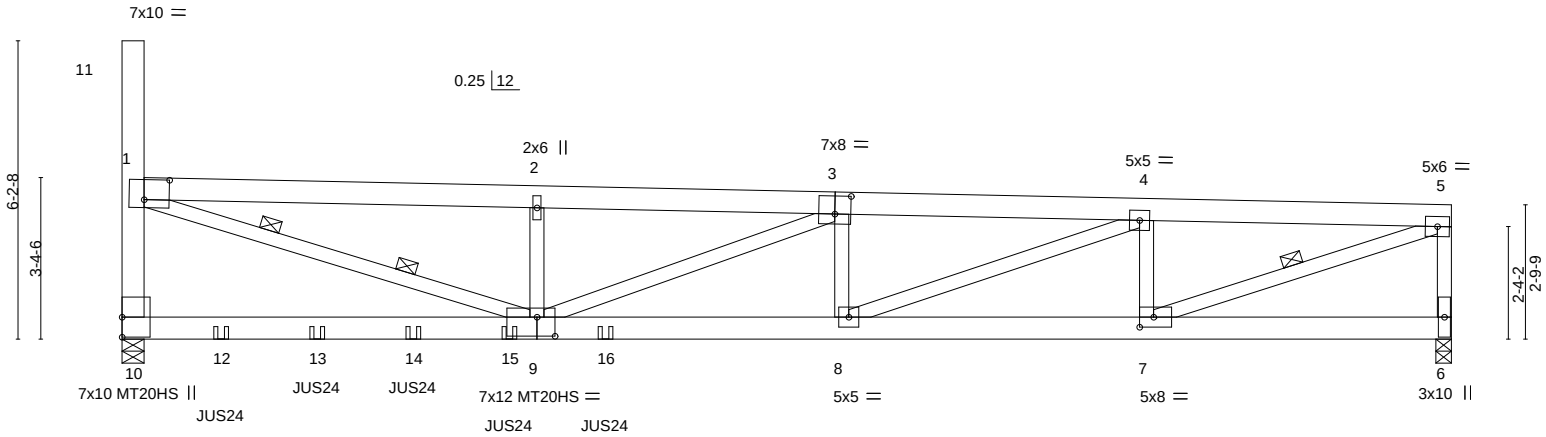
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T31	Roof Special Girder	1	1	I51652902
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-L4ezTg0Q2Yw7RDSCrppx9ELCJZEEjE5plhb4imzM7cB

8-7-10 (8-7-10) | 14-11-12 (6-4-2) | 21-3-14 (6-4-2) | 27-8-0 (6-4-2)

Scale: 1/4"=1'



8-7-10 (8-7-10) | 14-11-12 (6-4-2) | 21-3-14 (6-4-2) | 27-8-0 (6-4-2)

Plate Offsets (X,Y)-- [1:0-6-4,0-5-0], [3:0-4-0,0-4-8], [7:0-3-8,0-2-8], [9:0-4-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.43	9-10	>758	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.50	9-10	>650	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 10-11: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-0 oc bracing.
WEBS	1 Row at midpt 5-7 2 Rows at 1/3 pts 1-9

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=-171(LC 11)
Max Uplift 10=-1159(LC 16), 6=-299(LC 12)
Max Grav 10=2401(LC 55), 6=1478(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1843/1067, 1-2=-4784/3089, 2-3=-4781/3082, 3-4=-4397/2371, 4-5=-3035/1404, 5-6=-1401/643
BOT CHORD	9-10=-443/537, 8-9=-2419/4426, 7-8=-1431/3030
WEBS	1-9=-2937/4587, 2-9=-722/312, 3-9=-1249/1077, 3-8=-492/507, 4-8=-1030/1538, 4-7=-1005/603, 5-7=-1487/3159

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1159, 6=299.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-94(F) 13=-94(F) 14=-94(F) 15=-94(F) 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-60, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-78(F) 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-39, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-78(F) 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-66, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-78(F) 13=-78(F) 14=-78(F) 15=-78(F) 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-2=-66
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-42, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-94(F) 13=-94(F) 14=-94(F) 15=-94(F) 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-5=-78, 6-10=-20
   Concentrated Loads (lb)
   Vert: 12=-94(F) 13=-94(F) 14=-94(F) 15=-94(F) 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-2=-78
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-57, 6-10=-20
   Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
   Concentrated Loads (lb)
   Vert: 12=201(F) 13=202(F) 14=203(F) 15=203(F) 16=204(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-51, 6-10=-20
   Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
   Concentrated Loads (lb)
   Vert: 12=201(F) 13=202(F) 14=203(F) 15=203(F) 16=204(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-57, 6-10=-20
   Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
   Concentrated Loads (lb)
   Vert: 12=201(F) 13=202(F) 14=203(F) 15=203(F) 16=204(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-5=-51, 6-10=-20
   Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
   Concentrated Loads (lb)
   Vert: 12=201(F) 13=202(F) 14=203(F) 15=203(F) 16=204(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Concentrated Loads (lb)
Vert: 12=-94(F) 13=-94(F) 14=-94(F) 15=-94(F) 16=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
Concentrated Loads (lb)
Vert: 12=-284(F) 13=-284(F) 14=-285(F) 15=-286(F) 16=-286(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
Concentrated Loads (lb)
Vert: 12=-284(F) 13=-284(F) 14=-285(F) 15=-286(F) 16=-286(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
Concentrated Loads (lb)
Vert: 12=-284(F) 13=-284(F) 14=-285(F) 15=-286(F) 16=-286(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
Concentrated Loads (lb)
Vert: 12=-284(F) 13=-284(F) 14=-285(F) 15=-286(F) 16=-286(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T32	Roof Special	7	1	I51652903
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:23 2022 Page 1
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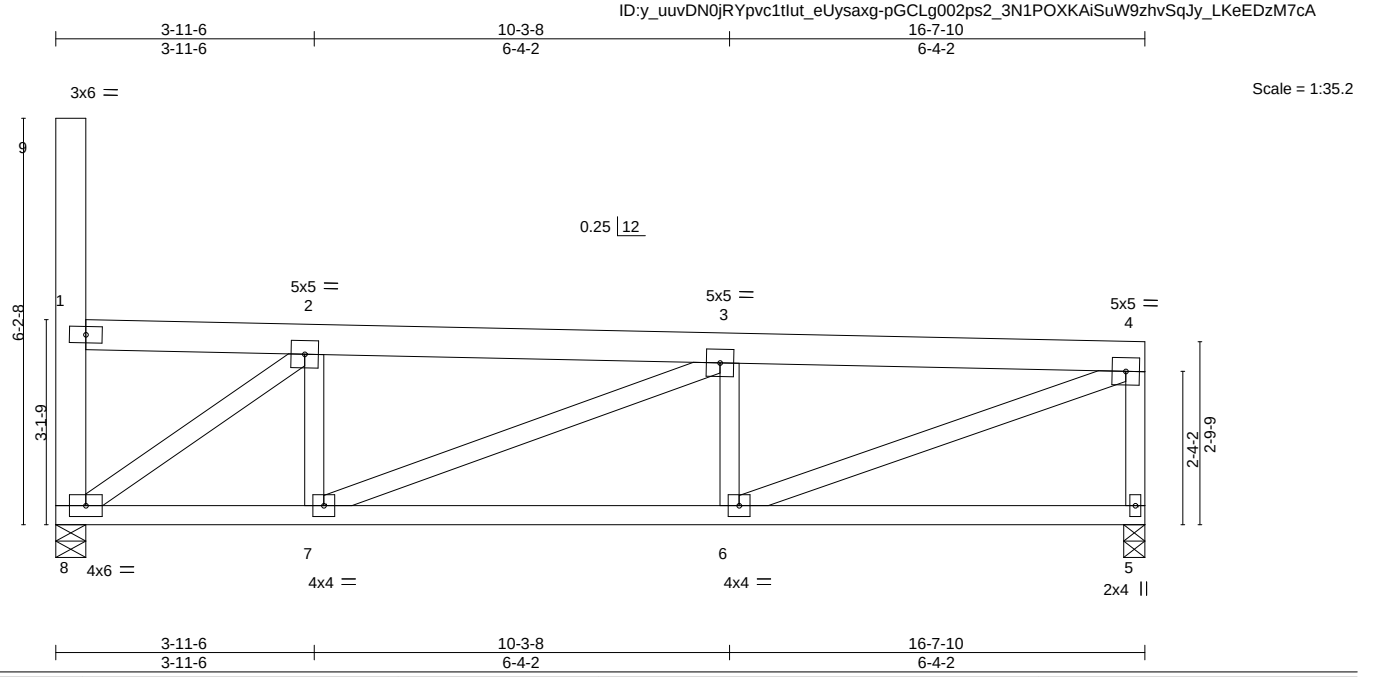

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 111 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-14
Max Horz 8=-176(LC 11)
Max Uplift 5=-3(LC 12)
Max Grav 8=925(LC 22), 5=798(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-330/230, 2-3=-984/486, 3-4=-1340/497, 4-5=-748/316
BOT CHORD 7-8=-510/979, 6-7=-529/1336
WEBS 2-8=-1163/372, 2-7=-59/255, 3-7=-391/327, 3-6=-382/288, 4-6=-549/1435

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-60, 5-8=-20

May 4,2022

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-57, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=3, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-51, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=9, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-57, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=3, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-51, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=9, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

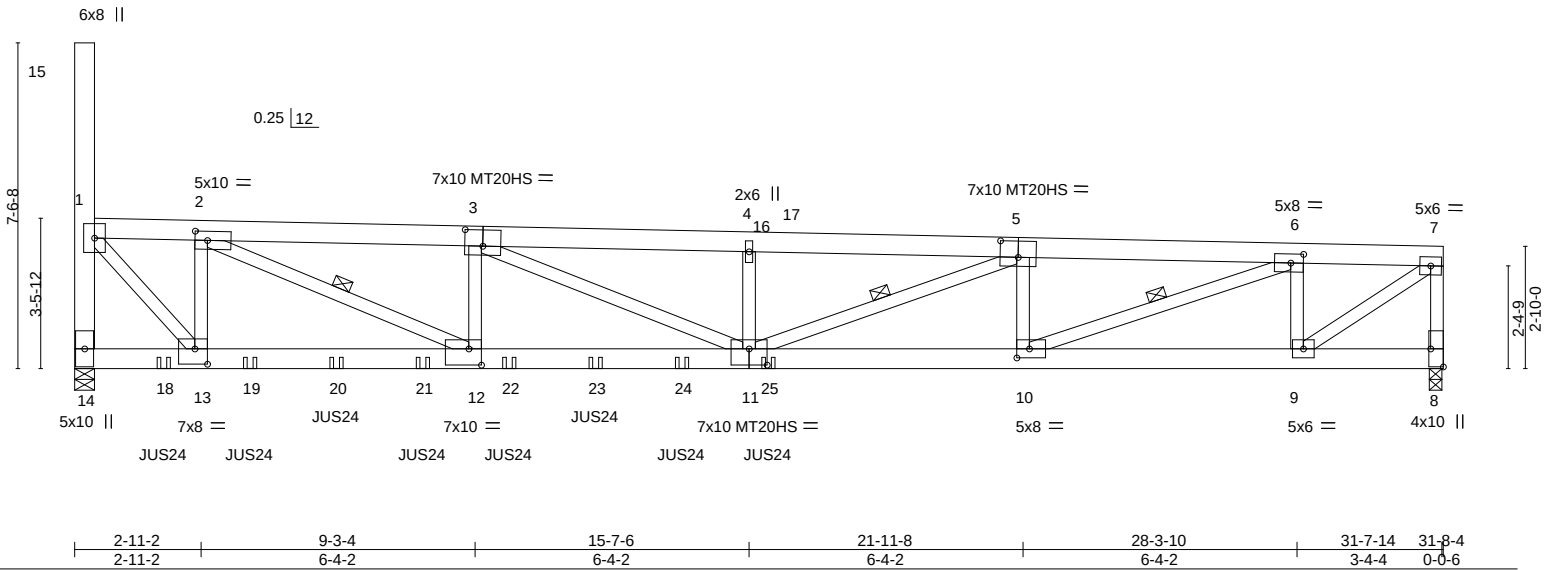
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T33	ROOF SPECIAL GIRDER	1	1	I51652904
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:25 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-lfK55i2JLTIiJhAnWxMentzi2mH6wc8FRfpkJ5zM7c8

2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:53.3



2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-7-14	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-4	0-0-6

Plate Offsets (X,Y)-- [2:0-3-7,0-2-9], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-3-8,0-2-8], [8:Edge,0-3-8], [10:0-3-8,0-2-8], [11:0-5-0,0-4-8], [12:0-3-8,0-4-8], [13:0-3-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.78	11-12	>484	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.89	11-12	>424	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 232 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 11-14: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13,2-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-5-14 oc bracing.
WEBS	1 Row at midpt 2-12, 5-11, 6-10

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-218(LC 11)
Max Uplift 14=-2633(LC 16), 8=-1041(LC 12)
Max Grav 14=3790(LC 55), 8=2173(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-3822/3102, 1-2=-3635/3058, 2-3=-8497/6947, 3-4=-9240/7241, 4-5=-9239/7236, 5-6=-6699/4709, 6-7=-2820/1805, 7-8=-2155/1377
BOT CHORD	13-14=-350/517, 12-13=-3062/3640, 11-12=-6954/8440, 10-11=-4785/6762, 9-10=-1833/2826
WEBS	1-13=-4076/5028, 2-13=-2630/1921, 2-12=-4457/5527, 3-12=-956/360, 3-11=-483/1008, 4-11=-474/185, 5-11=-2671/2898, 5-10=-1425/1256, 6-10=-3106/4153, 6-9=-1903/1350, 7-9=-2228/3457

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=2633, 8=1041.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-100(B) 19=-94(B) 20=-94(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-3=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-83(B) 19=-78(B) 20=-78(B) 21=-78(B) 22=-78(B) 23=-78(B) 24=-78(B) 25=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-3=-62
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-83(B) 19=-78(B) 20=-78(B) 21=-78(B) 22=-78(B) 23=-78(B) 24=-78(B) 25=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-98-to-3=-41
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-83(B) 19=-78(B) 20=-78(B) 21=-78(B) 22=-78(B) 23=-78(B) 24=-78(B) 25=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-3=-68
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-100(B) 19=-94(B) 20=-94(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-44
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-100(B) 19=-94(B) 20=-94(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-3=-81
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-57, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Concentrated Loads (lb)
   Vert: 18=304(B) 19=324(B) 20=325(B) 21=326(B) 22=326(B) 23=327(B) 24=328(B) 25=328(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-3=-58
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-51, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Concentrated Loads (lb)
   Vert: 18=304(B) 19=324(B) 20=325(B) 21=326(B) 22=326(B) 23=327(B) 24=328(B) 25=328(B)
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-3=-53
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-57, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Concentrated Loads (lb)
   Vert: 18=304(B) 19=324(B) 20=325(B) 21=326(B) 22=326(B) 23=327(B) 24=328(B) 25=328(B)
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-3=-58
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-51, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Concentrated Loads (lb)
   Vert: 18=304(B) 19=324(B) 20=325(B) 21=326(B) 22=326(B) 23=327(B) 24=328(B) 25=328(B)
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-3=-53
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 18=-100(B) 19=-94(B) 20=-94(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-57, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
Concentrated Loads (lb)
Vert: 18=-393(B) 19=-407(B) 20=-408(B) 21=-408(B) 22=-409(B) 23=-410(B) 24=-410(B) 25=-411(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-51, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
Concentrated Loads (lb)
Vert: 18=-393(B) 19=-407(B) 20=-408(B) 21=-408(B) 22=-409(B) 23=-410(B) 24=-410(B) 25=-411(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-57, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
Concentrated Loads (lb)
Vert: 18=-393(B) 19=-407(B) 20=-408(B) 21=-408(B) 22=-409(B) 23=-410(B) 24=-410(B) 25=-411(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-51, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
Concentrated Loads (lb)
Vert: 18=-393(B) 19=-407(B) 20=-408(B) 21=-408(B) 22=-409(B) 23=-410(B) 24=-410(B) 25=-411(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

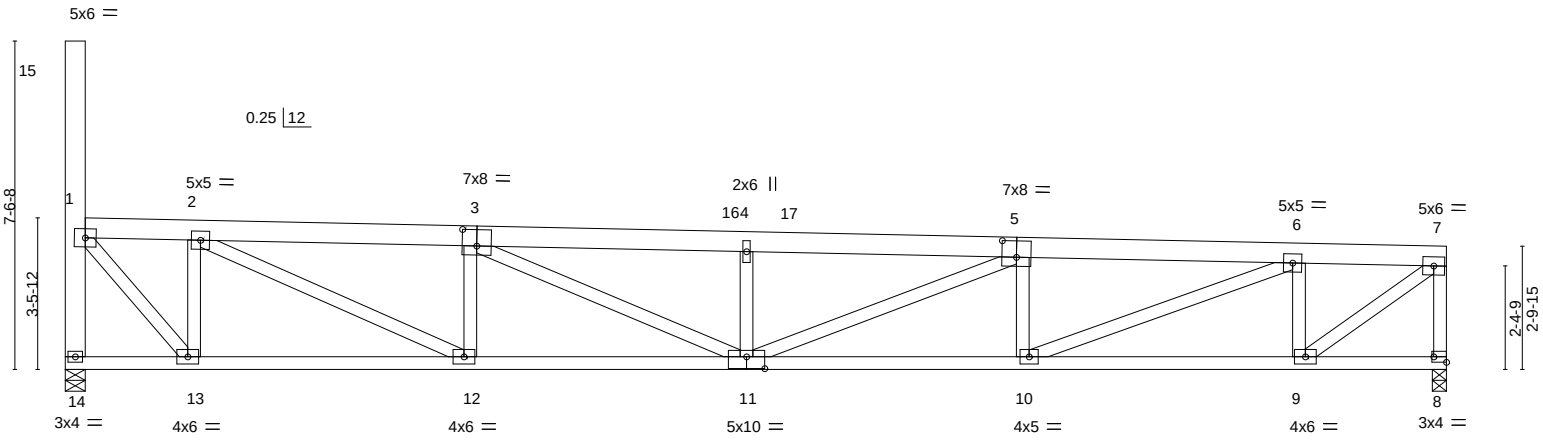
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T34	Roof Special	3	1	I51652905
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:26 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-EruUI23x6nQZwql_4fttK4W?ZAeef89OgJZIrYzM7c7

2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-10
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:52.9



2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-10
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.26	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	10-11	>740	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-220(LC 11)
Max Grav 14=1881(LC 22), 8=1589(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1862/316, 1-2=-1597/514, 2-3=-3787/803, 3-4=-4648/899, 4-5=-4648/894, 5-6=-4090/747, 6-7=-1935/337, 7-8=-1566/294
BOT CHORD 13-14=-279/441, 12-13=-517/1591, 11-12=-823/3828, 10-11=-784/4122, 9-10=-367/1933
WEBS 1-13=-362/2362, 2-13=-1676/343, 2-12=-490/2430, 3-12=-929/293, 3-11=-250/902, 4-11=-478/172, 5-11=-140/565, 5-10=-733/241, 6-10=-435/2315, 6-9=-1347/331, 7-9=-438/2404

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-119-to-3=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-43
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-71

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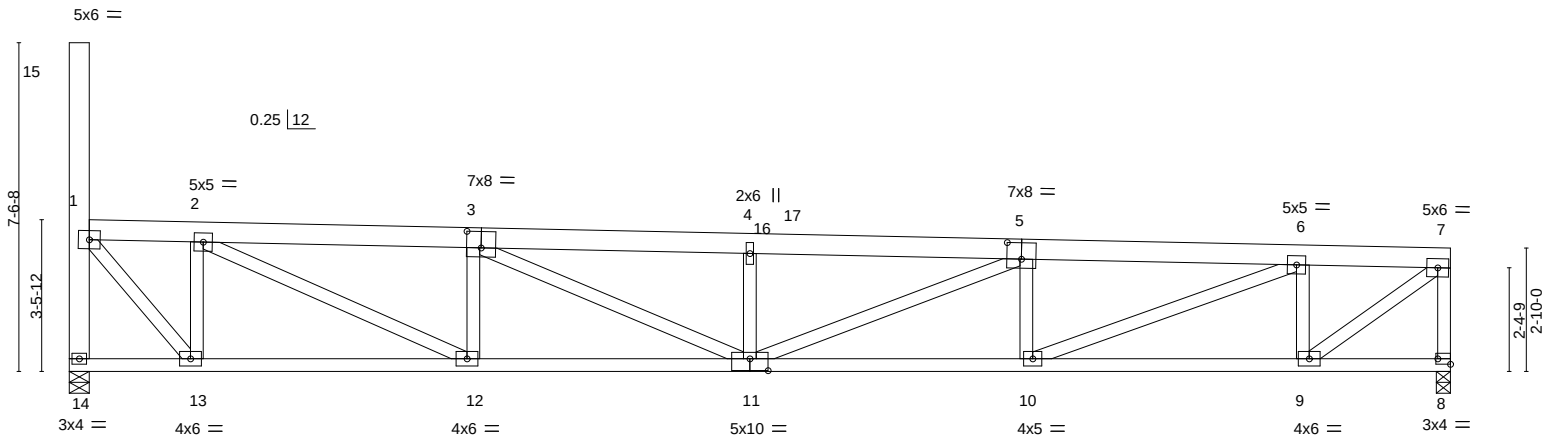
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T34A	ROOF SPECIAL	1	1	I51652906
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:27 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-i1SsWN4Zt5YPY_KAdMO6sI3AlazvObJYvzIrN_zM7c6

2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:52.9



2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.26	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	10-11	>740	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-220(LC 11)
Max Grav 14=1879(LC 22), 8=1588(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1861/315, 1-2=-1576/510, 2-3=-3789/807, 3-4=-4641/900, 4-5=-4641/895, 5-6=-4085/747, 6-7=-1932/337, 7-8=-1565/294
BOT CHORD 13-14=-279/441, 12-13=-514/1570, 11-12=-816/3782, 10-11=-782/4109, 9-10=-367/1930
WEBS 1-13=-359/2345, 2-13=-1672/343, 2-12=-498/2455, 3-12=-939/297, 3-11=-262/939, 4-11=-489/176, 5-11=-144/572, 5-10=-732/241, 6-10=-436/2313, 6-9=-1345/331, 7-9=-437/2400

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-119-to-3=-62
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-41
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-68
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-44
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-81
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-58
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-53
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-58
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-53
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-72

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T35	Roof Special Girder	1	1	I51652907
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-eQZcx35pPio7nIUYlnRayj8WjNfqsTRqMHnySszM7c4

2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-12
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-12

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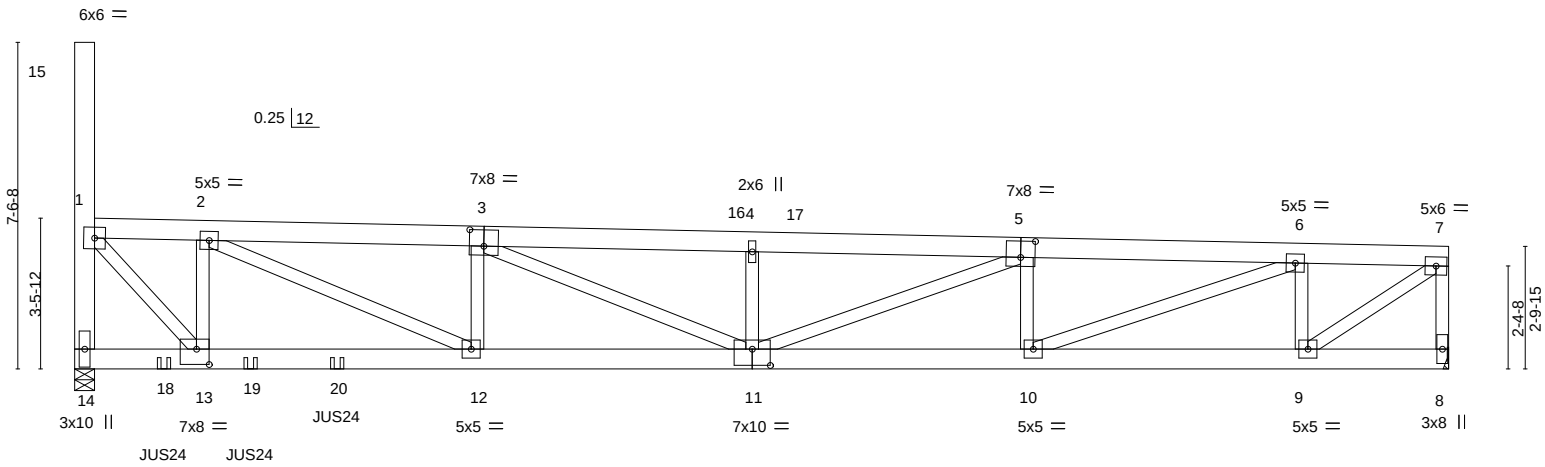

2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-12
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-12

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [11:0-5-0,0-4-8], [13:0-3-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.28	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.51	10-11	>736	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 232 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-5 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=-218(LC 45)
Max Uplift 14=-1146(LC 16), 8=-137(LC 12)
Max Grav 14=2518(LC 55), 8=1661(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-2514/1621, 1-2=-2481/1697, 2-3=-4467/2250, 3-4=-5172/1905, 4-5=-5172/1900, 5-6=-4468/1406, 6-7=-2107/583, 7-8=-1634/464
BOT CHORD	13-14=-310/475, 12-13=-1701/2487, 11-12=-2259/4505, 10-11=-1451/4505, 9-10=-611/2105
WEBS	1-13=-2077/3327, 2-13=-1693/413, 2-12=-772/2581, 3-12=-860/489, 3-11=-748/1146, 4-11=-469/174, 5-11=-506/801, 5-10=-794/384, 6-10=-877/2525, 6-9=-1403/497, 7-9=-729/2573

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1146, 8=137.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard Except:

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LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-70, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-3=-71, 14=-98-to-12=-22
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-67, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-42, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-43, 14=-98-to-12=-22
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-79, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-3=-80, 14=-98-to-12=-22
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 8-12=-20
   Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 8-12=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 8-12=-20
   Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 8-12=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-22
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 3-7=-70, 8-12=-20
Concentrated Loads (lb)
Vert: 18=-100(F) 19=-94(F) 20=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71, 14=-98-to-12=-22

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 8-12=-20
Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-22

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 8-12=-20
Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-22

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 8-12=-20
Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-22

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 8-12=-20
Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-22

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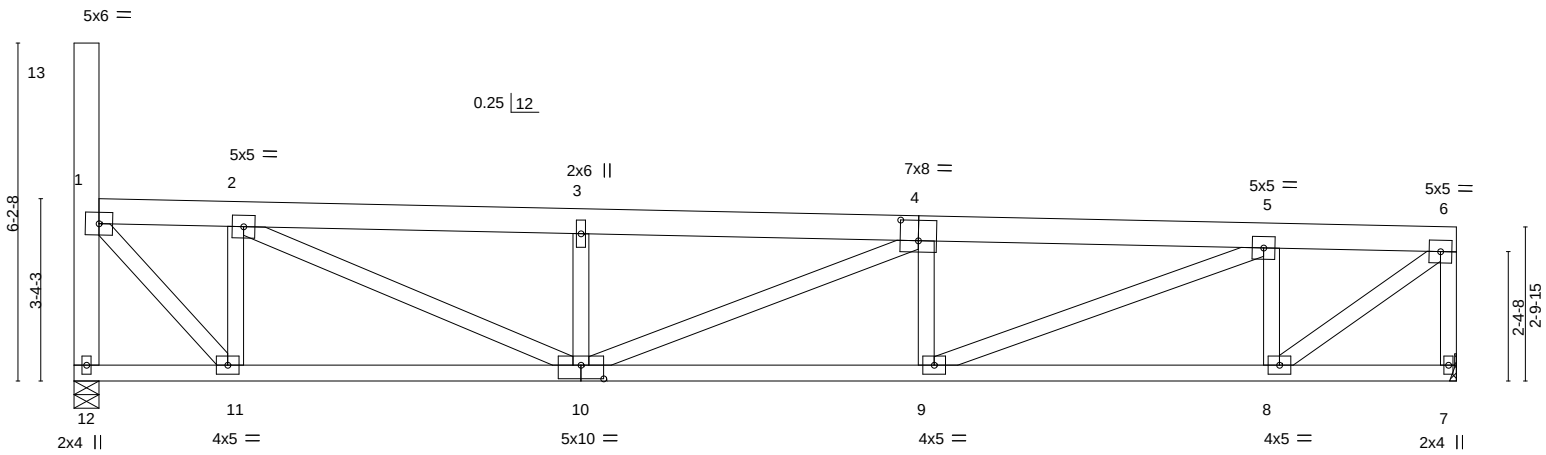
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T36	Roof Special	2	1	I51652908
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-6c7_8P6RA0w_PS3lJVypUwhiEn_Tbz1_bxXV_JzM7c3

2-11-10	9-3-12	15-7-14	22-0-0	25-4-12
2-11-10	6-4-2	6-4-2	6-4-2	3-4-12

Scale = 1:42.3



2-11-10	9-3-12	15-7-14	22-0-0	25-4-12
2-11-10	6-4-2	6-4-2	6-4-2	3-4-12

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.14	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.27	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 167 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-173(LC 11)
Max Grav 12=1543(LC 22), 7=1270(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1526/314, 1-2=-1348/437, 2-3=-2913/714, 3-4=-2912/708, 4-5=-2964/684, 5-6=-1529/336, 6-7=-1248/298
BOT CHORD 11-12=-212/347, 10-11=-446/1343, 9-10=-721/2981, 8-9=-368/1527
WEBS 1-11=-347/1941, 2-11=-1330/324, 2-10=-456/1722, 3-10=-559/213, 4-9=-444/215, 5-9=-368/1540, 5-8=-1038/331, 6-8=-437/1896

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-61

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-98-to-3=-40

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-44

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-3=-80

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

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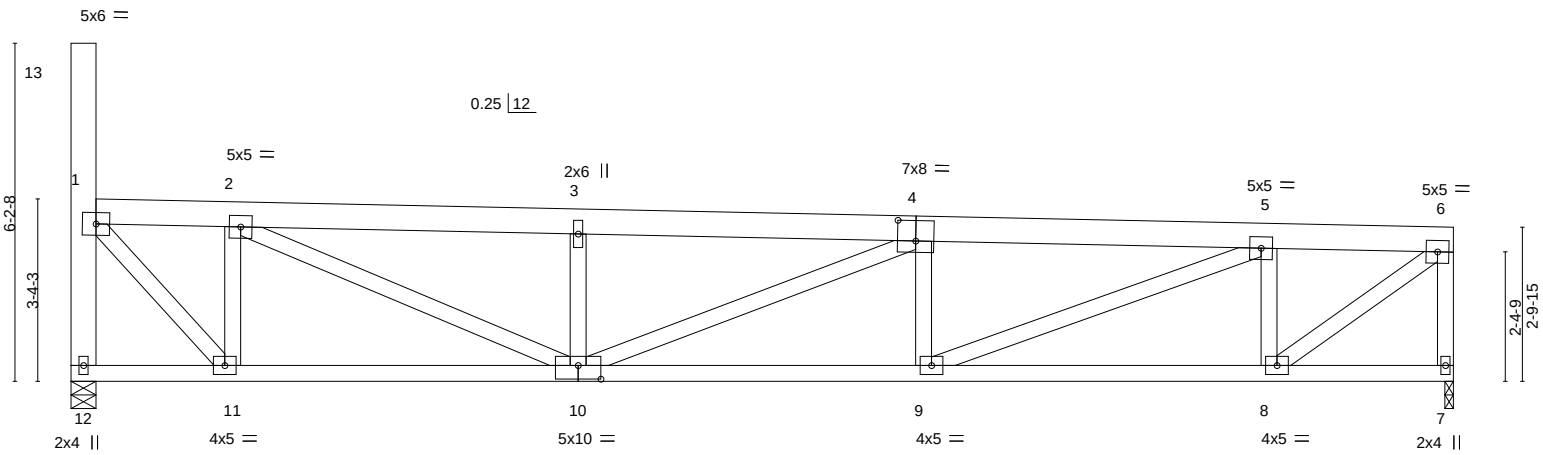
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T37	Roof Special	4	1	I51652909
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:31 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-aphNMl74xJ3r1cexsCT218Dt_BKjKQG7qbG3WlzM7c2

2-11-10	9-3-12	15-7-14	22-0-0	25-4-10
2-11-10	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:42.3



2-11-10	9-3-12	15-7-14	22-0-0	25-4-10
2-11-10	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.14	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.27	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-1-14
Max Horz 12=-173(LC 11)
Max Grav 12=1543(LC 22), 7=1270(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1525/314, 1-2=-1348/437, 2-3=-2911/714, 3-4=-2910/708, 4-5=-2961/683, 5-6=-1524/335, 6-7=-1247/298
BOT CHORD 11-12=-212/347, 10-11=-446/1342, 9-10=-721/2978, 8-9=-367/1522
WEBS 1-11=-347/1940, 2-11=-1329/324, 2-10=-456/1720, 3-10=-559/213, 4-9=-445/215, 5-9=-369/1542, 5-8=-1039/331, 6-8=-436/1893

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-61

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-98-to-3=-40

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-44

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-3=-80

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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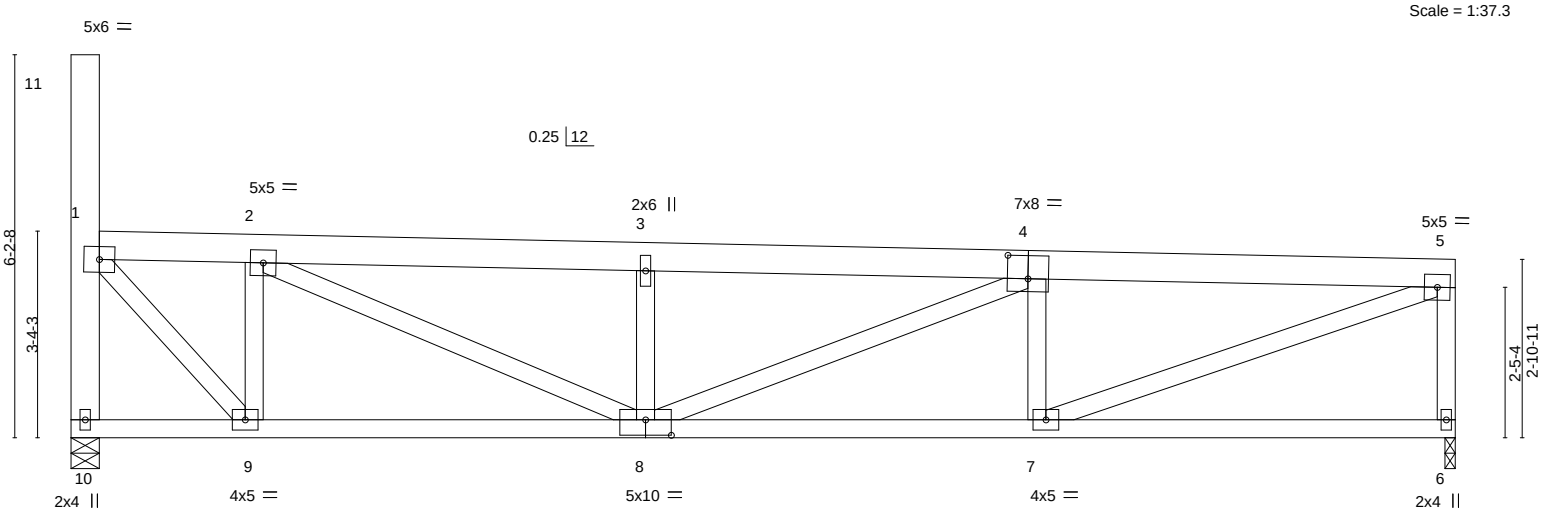
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T38	Roof Special	3	1	I51652910
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:32 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-2?FIZ57iidBielD7Qw_HZLm1TbjJ3scH2F0c3BzM7c1

2-11-10	9-3-12	15-7-14	22-5-4
2-11-10	6-4-2	6-4-2	6-9-6

Scale = 1:37.3



2-11-10	9-3-12	15-7-14	22-5-4
2-11-10	6-4-2	6-4-2	6-9-6

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.10	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.19	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 147 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-9 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-2-0
Max Horz 10=-173(LC 11)
Max Grav 10=1386(LC 22), 6=1124(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1369/319, 1-2=-1202/435, 2-3=-2405/660, 3-4=-2404/654, 4-5=-2100/540, 5-6=-1059/325
BOT CHORD 9-10=-219/362, 8-9=-448/1196, 7-8=-587/2128
WEBS 1-9=-347/1729, 2-9=-1173/318, 2-8=-428/1325, 3-8=-542/223, 4-8=-99/294, 4-7=-643/295, 5-7=-584/2177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-61

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-98-to-3=-40

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-65, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-3=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-44

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-77, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-155-to-3=-79

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-57, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-51, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-57, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-58

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-5=-51, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-53

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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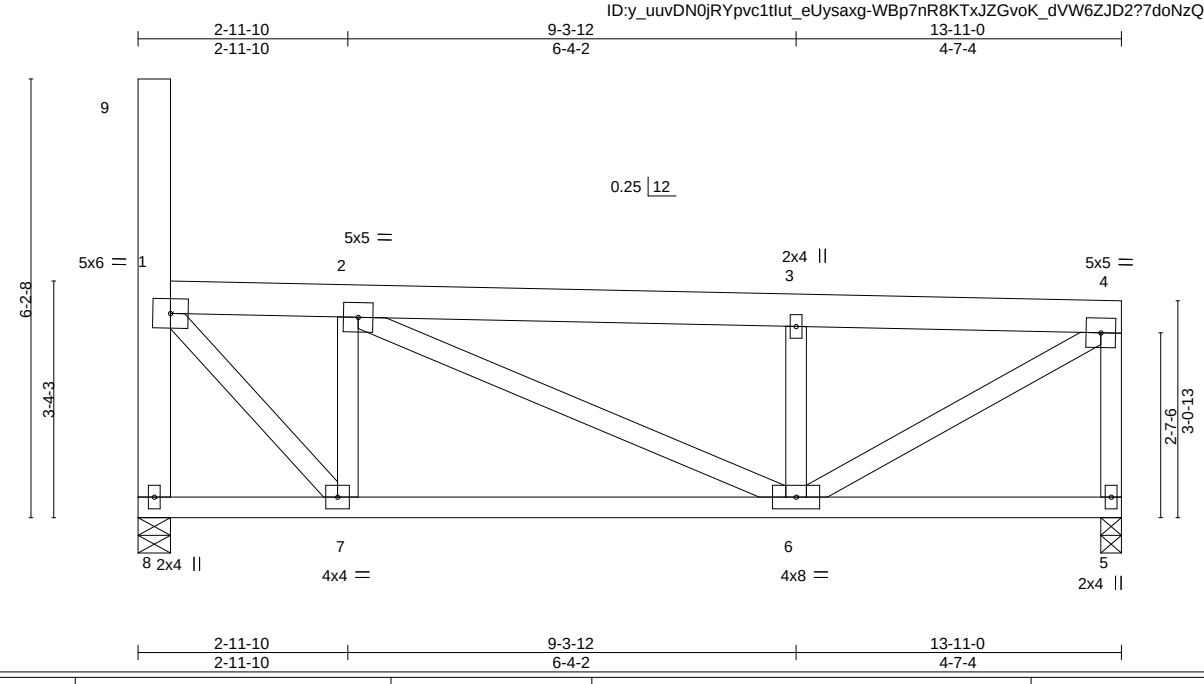
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T39	Roof Special	6	1	I51652911
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:33 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-WBp7nR8KTxJZGvoK_dVW6ZJD2?7doNzQHvlAbezM7c0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 99 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Horz 8=-173(LC 11)
Max Uplift 5=-15(LC 12)
Max Grav 8=929(LC 22), 5=733(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-919/329, 1-2=-771/396, 2-3=-943/354, 3-4=-939/346, 4-5=-701/301
BOT CHORD 7-8=-236/399, 6-7=-422/765
WEBS 1-7=-311/1106, 2-7=-707/292, 2-6=-310/259, 3-6=-525/284, 4-6=-426/1095

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-69
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 5-8=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-119-to-3=-59

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-98-to-3=-38

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-3=-65

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-41

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-155-to-3=-76

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=3, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-56

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=9, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=3, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-56

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=9, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-69

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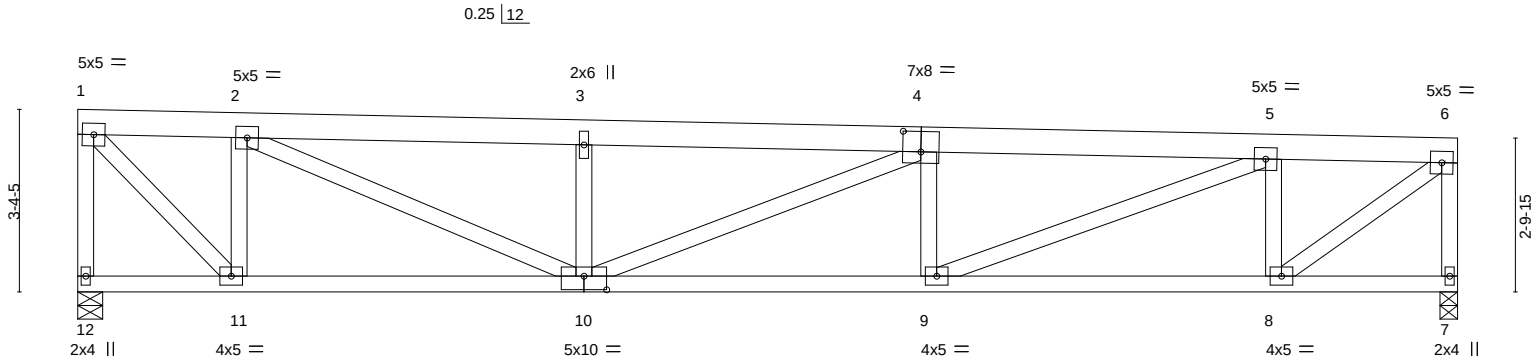
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T40	Roof Special	4	1	I51652912
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-xmUGPSBClsh87NWvfl3DkBwlzC2d?izszt_qByzM7bz

2-11-10	9-3-12	15-7-14	22-0-0	25-4-10
2-11-10	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:42.4



2-11-10	9-3-12	15-7-14	22-0-0	25-4-10
2-11-10	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.12	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.26	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 158 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-3-12 oc bracing: 9-10.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-64(LC 11)
Max Grav 12=1229(LC 22), 7=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1214/277, 1-2=-1139/278, 2-3=-2663/597, 3-4=-2662/591, 4-5=-2819/613, 5-6=-1470/339, 6-7=-1207/277
BOT CHORD 10-11=-288/1136, 9-10=-646/2835, 8-9=-340/1468
WEBS 1-11=-367/1639, 2-11=-1086/334, 2-10=-379/1675, 3-10=-495/212, 4-9=-410/196, 5-9=-318/1447, 5-8=-998/311, 6-8=-403/1825

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T41	Roof Special	1	1	I51652913
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:37 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-Py2ecoBqW9p?lX55DTaSGPTwjcOsk8C0CXjNjPzM7by

2-11-10	9-3-12	15-7-14	22-0-0	25-4-12
2-11-10	6-4-2	6-4-2	6-4-2	3-4-12

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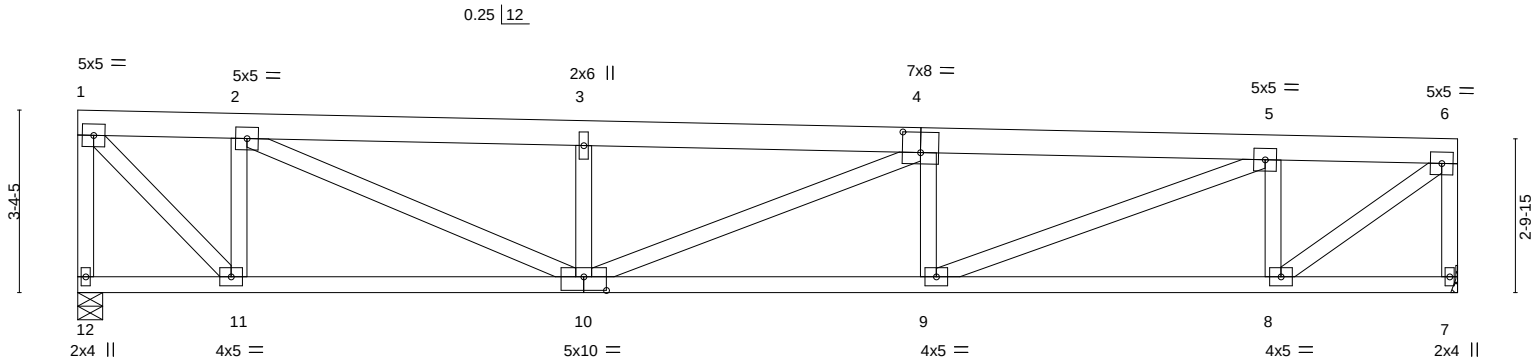

2-11-10	9-3-12	15-7-14	22-0-0	25-4-12
2-11-10	6-4-2	6-4-2	6-4-2	3-4-12

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.12	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.26	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 158 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-3-12 oc bracing: 9-10.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-64(LC 11)
Max Grav 12=1229(LC 22), 7=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1214/277, 1-2=-1140/278, 2-3=-2664/597, 3-4=-2664/591, 4-5=-2822/613, 5-6=-1474/340, 6-7=-1207/277
BOT CHORD 10-11=-288/1136, 9-10=-646/2837, 8-9=-341/1473
WEBS 1-11=-367/1639, 2-11=-1087/334, 2-10=-379/1676, 3-10=-495/212, 4-9=-409/196, 5-9=-318/1446, 5-8=-997/311, 6-8=-404/1829

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

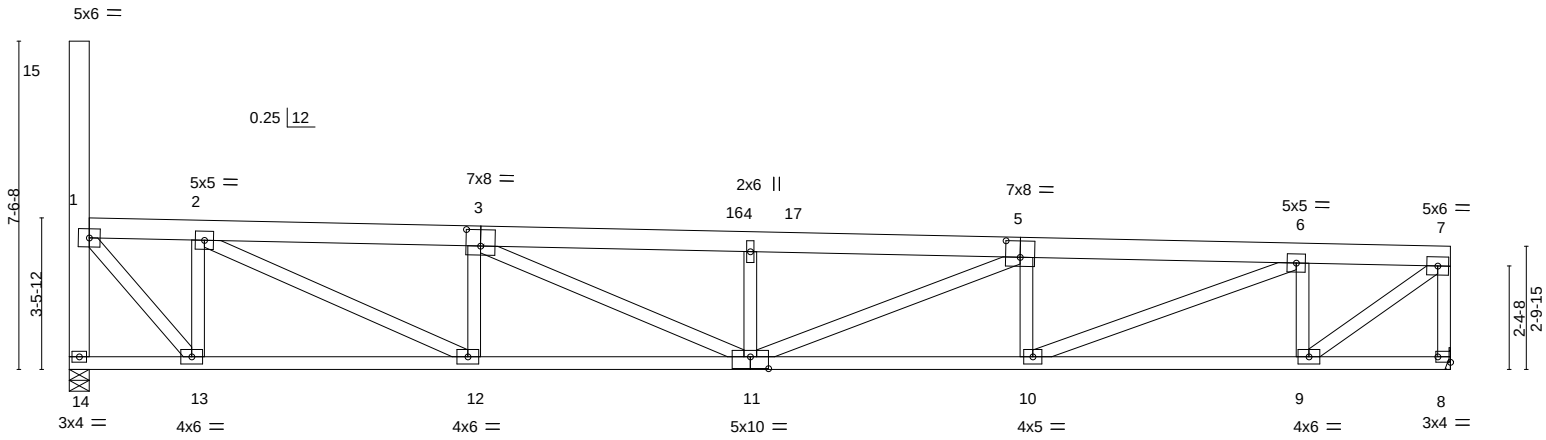
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T42	Roof Special	2	1	I51652914
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:38 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-t9c0q8CTHTxsMggHnA5hpc02X0kQTZ79RBTxFrzM7bx

2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-12
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-12

Scale = 1:52.9



2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-12
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-12

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.26	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	10-11	>739	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=-220(LC 11)
Max Grav 14=1881(LC 22), 8=1590(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1863/315, 1-2=-1598/514, 2-3=-3789/803, 3-4=-4651/899, 4-5=-4651/894, 5-6=-4094/747, 6-7=-1941/338, 7-8=-1567/294
BOT CHORD 13-14=-279/441, 12-13=-517/1592, 11-12=-823/3830, 10-11=-784/4127, 9-10=-368/1939
WEBS 1-13=-362/2363, 2-13=-1677/343, 2-12=-490/2431, 3-12=-930/293, 3-11=-250/904, 4-11=-478/172, 5-11=-140/564, 5-10=-732/241, 6-10=-435/2313, 6-9=-1346/331, 7-9=-438/2408

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-119-to-3=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-43
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-71

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

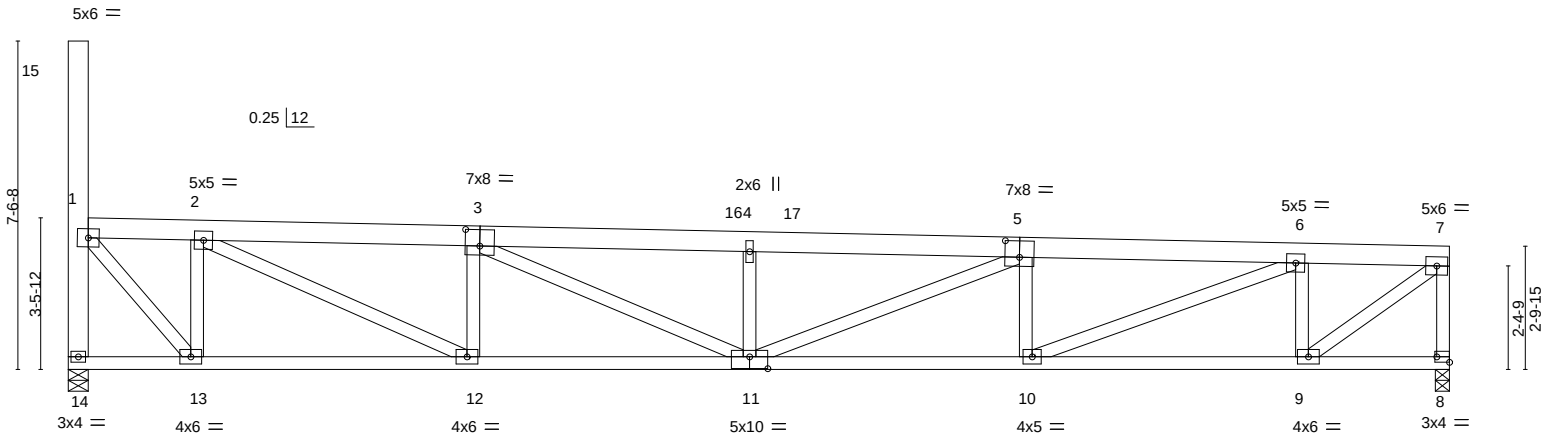
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T43	ROOF SPECIAL	2	1	I51652915
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:40 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-pXkmFqEjp4BZc_qgub79u15O1pPvxTdSuVy1KkzM7bv

2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-10
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:52.9



2-11-8	9-3-10	15-7-12	21-11-14	28-4-0	31-8-10
2-11-8	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.26	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	10-11	>740	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-3 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-220(LC 11)
Max Grav 14=1881(LC 22), 8=1589(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1862/316, 1-2=-1598/514, 2-3=-3788/803, 3-4=-4648/899, 4-5=-4648/894, 5-6=-4090/747, 6-7=-1935/337, 7-8=-1566/294
BOT CHORD 13-14=-279/441, 12-13=-517/1591, 11-12=-823/3828, 10-11=-784/4122, 9-10=-367/1933
WEBS 1-13=-362/2362, 2-13=-1676/343, 2-12=-490/2429, 3-12=-929/293, 3-11=-250/902, 4-11=-478/172, 5-11=-140/565, 5-10=-733/241, 6-10=-435/2315, 6-9=-1347/331, 7-9=-438/2403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-119-to-3=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-43
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-80
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-71

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

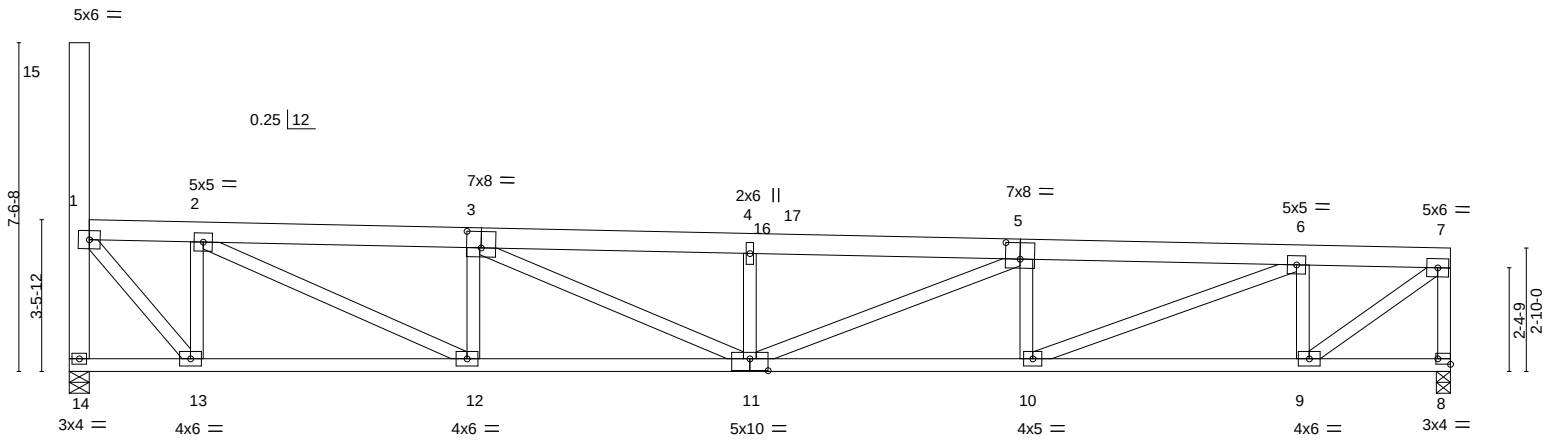
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T43A	ROOF SPECIAL	1	1	I51652916
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:41 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-HkI9SAELaOJQD8PsSJfORFeZmDl9gwnb78hbsAzM7bu

2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Scale = 1:52.9



2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [8:Edge,0-1-8], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.26	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.51	10-11	>740	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-14
Max Horz 14=-220(LC 11)
Max Grav 14=1879(LC 22), 8=1588(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1861/315, 1-2=-1576/510, 2-3=-3790/807, 3-4=-4641/900, 4-5=-4641/895, 5-6=-4082/746, 6-7=-1933/337, 7-8=-1565/294
BOT CHORD 13-14=-279/441, 12-13=-514/1570, 11-12=-816/3782, 10-11=-784/4115, 9-10=-367/1931
WEBS 1-13=-359/2345, 2-13=-1672/343, 2-12=-498/2455, 3-12=-939/297, 3-11=-262/938, 4-11=-487/176, 5-11=-142/566, 5-10=-731/241, 6-10=-435/2309, 6-9=-1345/331, 7-9=-438/2401

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-72

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-119-to-3=-62
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-3=-41
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-68
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-44
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-3=-81
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-58
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-53
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-57, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-58
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-7=-51, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-53
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-72

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T44	Roof Special Girder	1	1	I51652917
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:43 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-E6PvtsGb6?Z8TSZFZjhsWgjnc1QJ8lcuaSAhx2zM7bs

2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

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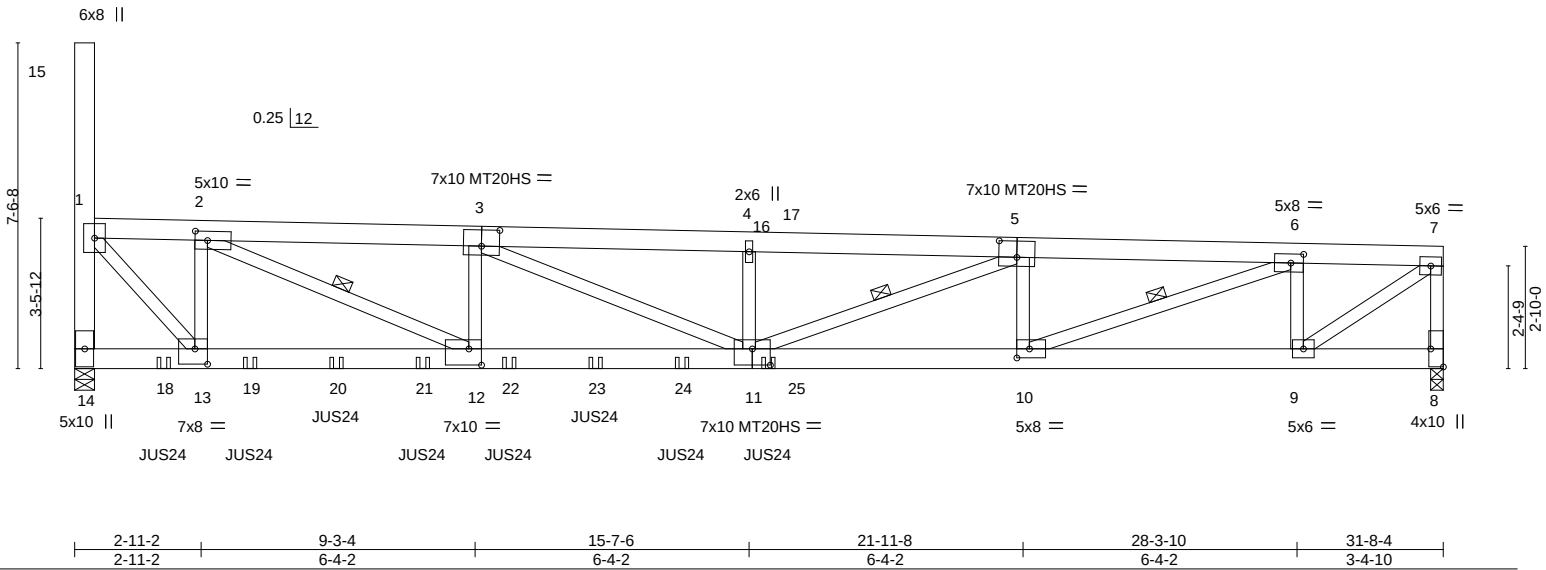

2-11-2	9-3-4	15-7-6	21-11-8	28-3-10	31-8-4
2-11-2	6-4-2	6-4-2	6-4-2	6-4-2	3-4-10

Plate Offsets (X,Y)-- [2:0-3-7,0-2-9], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-3-8,0-2-8], [8:Edge,0-3-8], [10:0-3-8,0-2-8], [11:0-5-0,0-4-8], [12:0-3-8,0-4-8], [13:0-3-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.78	11-12	>482	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.89	11-12	>422	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 232 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 11-14: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13,2-12: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-5-10 oc bracing.
WEBS	1 Row at midpt 2-12, 5-11, 6-10

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=-218(LC 11)
Max Uplift 14=-2633(LC 16), 8=-1041(LC 12)
Max Grav 14=3783(LC 55), 8=2171(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-3773/3100, 1-2=-3627/3058, 2-3=-8497/6948, 3-4=-9230/7229, 4-5=-9223/7220, 5-6=-6687/4703, 6-7=-2820/1806, 7-8=-2154/1378
BOT CHORD	13-14=-350/518, 12-13=-3061/3634, 11-12=-6969/8468, 10-11=-4795/6767, 9-10=-1834/2826
WEBS	1-13=-4075/5021, 2-13=-2442/1924, 2-12=-4458/5527, 3-12=-908/351, 3-11=-452/966, 4-11=-463/180, 5-11=-2649/2876, 5-10=-1430/1263, 6-10=-3099/4140, 6-9=-1900/1348, 7-9=-2230/3457

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=2633, 8=1041.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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May 4,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-70, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F) 21=-94(F) 22=-94(F) 23=-94(F) 24=-94(F) 25=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-3=-68, 14=-98-to-12=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F) 21=-78(F) 22=-78(F) 23=-78(F) 24=-78(F) 25=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F) 21=-78(F) 22=-78(F) 23=-78(F) 24=-78(F) 25=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-67, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-83(F) 19=-78(F) 20=-78(F) 21=-78(F) 22=-78(F) 23=-78(F) 24=-78(F) 25=-78(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-42, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F) 21=-94(F) 22=-94(F) 23=-94(F) 24=-94(F) 25=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-40, 14=-98-to-12=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-79, 8-12=-20
   Concentrated Loads (lb)
   Vert: 18=-100(F) 19=-94(F) 20=-94(F) 21=-94(F) 22=-94(F) 23=-94(F) 24=-94(F) 25=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-3=-77, 14=-98-to-12=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 8-12=-20
   Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F) 21=326(F) 22=326(F) 23=327(F) 24=328(F) 25=328(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 8-12=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F) 21=326(F) 22=326(F) 23=327(F) 24=328(F) 25=328(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 8-12=-20
   Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F) 21=326(F) 22=326(F) 23=327(F) 24=328(F) 25=328(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 8-12=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
   Concentrated Loads (lb)
   Vert: 18=304(F) 19=324(F) 20=325(F) 21=326(F) 22=326(F) 23=327(F) 24=328(F) 25=328(F)
   Trapezoidal Loads (plf)
   Vert: 14=-79-to-12=-20
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 3-7=-70, 8-12=-20
Concentrated Loads (lb)
Vert: 18=-100(F) 19=-94(F) 20=-94(F) 21=-94(F) 22=-94(F) 23=-94(F) 24=-94(F) 25=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-68, 14=-98-to-12=-20

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 8-12=-20
Horz: 1-14=13, 1-15=27, 1-7=3, 7-8=3
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F) 21=-408(F) 22=-409(F) 23=-410(F) 24=-410(F) 25=-411(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-20

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 8-12=-20
Horz: 1-14=-3, 1-15=-27, 1-7=9, 7-8=-13
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F) 21=-408(F) 22=-409(F) 23=-410(F) 24=-410(F) 25=-411(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-20

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 8-12=-20
Horz: 1-14=10, 1-15=-18, 1-7=3, 7-8=2
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F) 21=-408(F) 22=-409(F) 23=-410(F) 24=-410(F) 25=-411(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-20

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 8-12=-20
Horz: 1-14=-2, 1-15=-18, 1-7=9, 7-8=-10
Concentrated Loads (lb)
Vert: 18=-393(F) 19=-407(F) 20=-408(F) 21=-408(F) 22=-409(F) 23=-410(F) 24=-410(F) 25=-411(F)
Trapezoidal Loads (plf)
Vert: 14=-79-to-12=-20

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Chesterfield, MO 63017

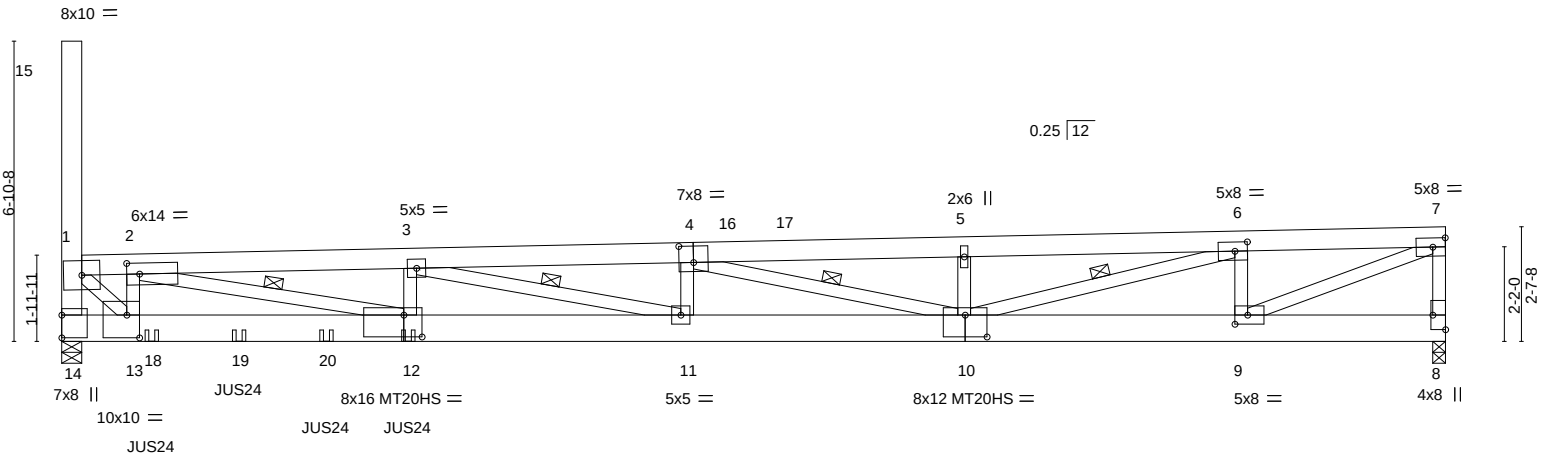
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T45	ROOF SPECIAL GIRDER	1	1	I51652918
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:45 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-AVXfIXIsedpsilidh8jKb5oAzqCxcexB2mfo?xzM7bq

1-7-10	7-11-12	14-3-14	20-8-0	27-0-2	31-8-4
1-7-10	6-4-2	6-4-2	6-4-2	6-4-2	4-8-2

Scale = 1:52.8



1-7-10	7-11-12	14-3-14	20-8-0	27-0-2	31-8-4
1-7-10	6-4-2	6-4-2	6-4-2	6-4-2	4-8-2

Plate Offsets (X,Y)-- [2:0-3-8,0-3-0], [4:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:0-3-7,0-2-8], [8:Edge,0-3-8], [9:0-3-8,0-2-8], [10:0-6-0,0-6-0], [12:0-5-0,0-6-0], [13:0-3-8,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.64	11-12	>585	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.97	10-11	>386	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-3-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-14 oc bracing.
WEBS	1 Row at midpt 2-12, 3-11, 4-10, 6-10

REACTIONS. (size) 14=0-5-8, 8=0-3-8
Max Horz 14=228(LC 40)
Max Uplift 14=-1647(LC 11), 8=-258(LC 15)
Max Grav 14=2870(LC 50), 8=1659(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-3631/2740, 1-2=-3999/3146, 2-3=-8003/5461, 3-4=-7865/4316, 4-5=-6339/2779, 5-6=-6334/2783, 6-7=-3374/1275, 7-8=-1601/607
BOT CHORD	13-14=-762/898, 12-13=-3199/4002, 11-12=-5507/7995, 10-11=-4339/7829, 9-10=-1302/3368
WEBS	1-13=-3487/4916, 2-13=-2040/850, 2-12=-2677/4468, 3-12=-957/722, 3-11=-1739/2278, 4-11=-426/512, 4-10=-2040/1581, 5-10=-478/192, 6-10=-1586/3103, 6-9=-1353/627, 7-9=-1394/3634

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1647, 8=258.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 7-11-4 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard Except:

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-94(B) 18=-94(B) 19=-94(B) 20=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-230-to-3=-68
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-78(B) 18=-78(B) 19=-78(B) 20=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-3=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-78(B) 18=-78(B) 19=-78(B) 20=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-3=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-78(B) 18=-78(B) 19=-78(B) 20=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-94(B) 18=-94(B) 19=-94(B) 20=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-239-to-3=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 12=-94(B) 18=-94(B) 19=-94(B) 20=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-202-to-3=-40
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 12=341(B) 18=342(B) 19=342(B) 20=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-3=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 12=341(B) 18=342(B) 19=342(B) 20=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-3=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 12=341(B) 18=342(B) 19=342(B) 20=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-3=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-7=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 12=341(B) 18=342(B) 19=342(B) 20=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-3=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 3-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 12=-94(B) 18=-94(B) 19=-94(B) 20=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-230-to-3=-68

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 12=-424(B) 18=-425(B) 19=-425(B) 20=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 12=-424(B) 18=-425(B) 19=-425(B) 20=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 12=-424(B) 18=-425(B) 19=-425(B) 20=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 12=-424(B) 18=-425(B) 19=-425(B) 20=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

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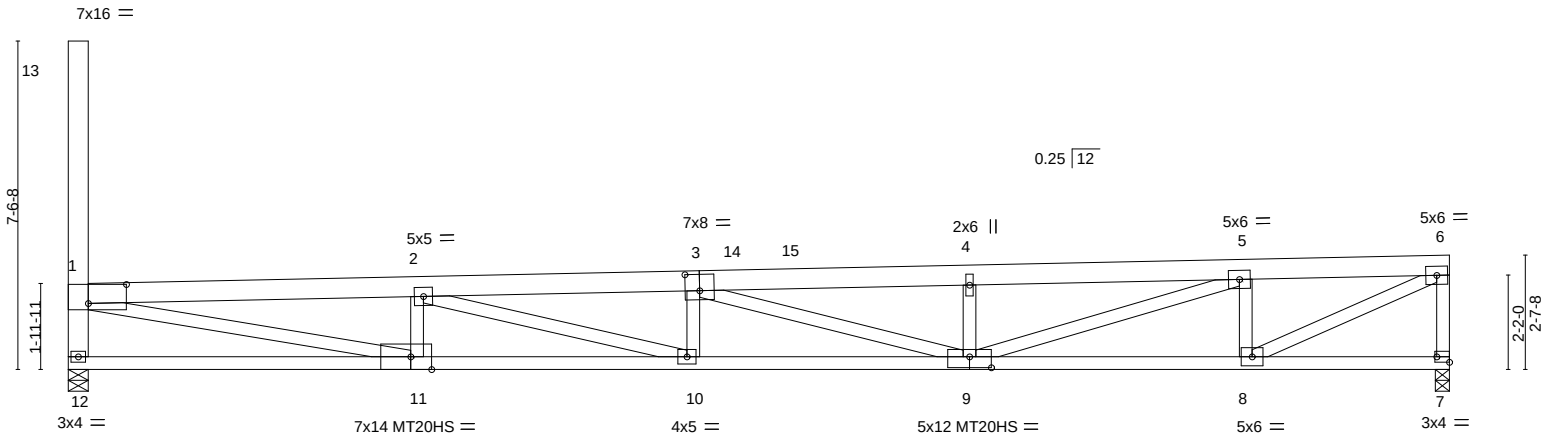
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T46	MONOPITCH	4	1	I51652919
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-eh51VtIUPwxjKvHqFsEZ8ILIHEQeL5ALGQPMXNzM7bp

8-0-2	14-4-4	20-8-6	27-0-8	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-8-2

Scale = 1:52.9



8-0-2	14-4-4	20-8-6	27-0-8	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-8-2

Plate Offsets (X,Y)-- [1:0-10-8,0-5-4], [3:0-4-0,0-4-8], [7:Edge,0-1-8], [9:0-6-0,0-3-0], [11:0-5-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.53	10	>713	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.02	10	>368	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.13	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=256(LC 12)
Max Grav 12=1839(LC 21), 7=1579(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1748/345, 1-2=-5652/1292, 2-3=-6636/1328, 3-4=-5685/1071, 4-5=-5686/1077, 5-6=-2951/536, 6-7=-1536/311
BOT CHORD 11-12=-680/806, 10-11=-1343/5639, 9-10=-1378/6641, 8-9=-565/2946
WEBS 1-11=-1038/5322, 2-11=-939/304, 2-10=-418/1096, 3-9=-1005/280, 4-9=-504/183, 5-9=-576/2887, 5-8=-1329/343, 6-8=-610/3242

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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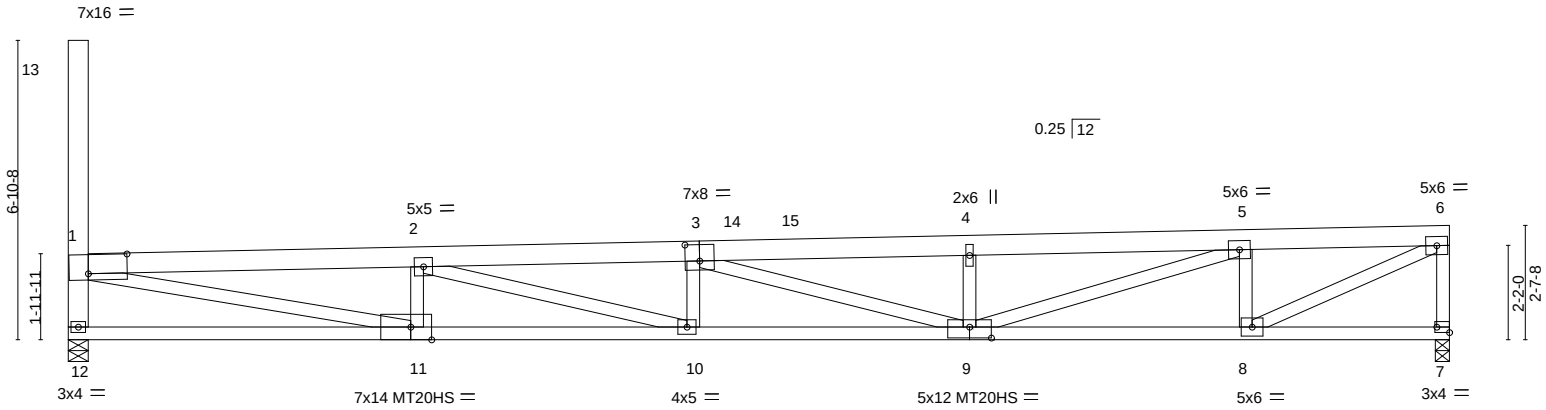
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T46A	Monopitch	3	1	I51652920
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:48 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-a4DowZKkwYCRZDRCMHH1DjQem266p?BdkkuScGzM7bn

8-0-2	14-4-4	20-8-6	27-0-8	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-8-2

Scale = 1:52.9



8-0-2	14-4-4	20-8-6	27-0-8	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-8-2

Plate Offsets (X,Y)-- [1:0-10-12,0-5-4], [3:0-4-0,0-4-8], [7:Edge,0-1-8], [9:0-6-0,0-3-0], [11:0-5-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.53	10	>713	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.02	10	>368	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.13	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 194 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-3-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-2-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=231(LC 12)
Max Grav 12=1839(LC 21), 7=1579(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1748/336, 1-2=-5652/1215, 2-3=-6636/1277, 3-4=-5685/1041, 4-5=-5686/1046, 5-6=-2951/524, 6-7=-1536/305
BOT CHORD	11-12=-579/657, 10-11=-1265/5639, 9-10=-1328/6641, 8-9=-553/2946
WEBS	1-11=-1003/5322, 2-11=-939/297, 2-10=-376/1096, 3-9=-1005/259, 4-9=-504/182, 5-9=-556/2887, 5-8=-1329/337, 6-8=-597/3242

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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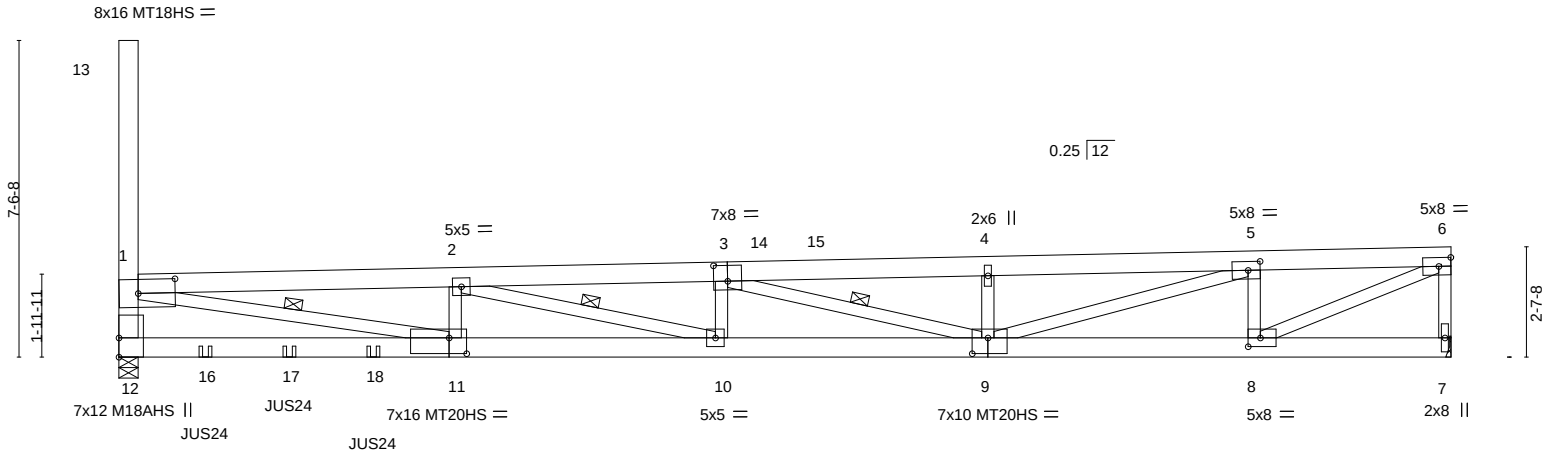
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T46B	Jack-Closed Girder	1	1	I51652921
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:50 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-XSLYLFL_S9S9oWbbUhJVI8WzsrrtHvmwB2NZg8zM7bI

8-0-2	14-4-4	20-8-6	27-0-8	31-8-12
8-0-2	6-4-2	6-4-2	6-4-2	4-8-4

Scale = 1:54.9



8-0-2	14-4-4	20-8-6	27-0-8	31-8-12
8-0-2	6-4-2	6-4-2	6-4-2	4-8-4

Plate Offsets (X,Y)-- [1:0-10-9,0-4-0], [3:0-4-0,0-4-8], [5:0-3-7,0-2-8], [6:0-3-7,0-2-8], [8:0-3-8,0-2-8], [9:0-4-8,0-4-8], [11:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.59	11-12	>637	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-1.02	10	>370	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	7	n/a	n/a	M18AHS	186/179
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT=13%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E *Except* 7-9: 2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-4 oc bracing.
WEBS	1 Row at midpt 1-11, 2-10, 3-9

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=235(LC 44)
Max Uplift 12=-1278(LC 11), 7=-140(LC 15)
Max Grav 12=2557(LC 54), 7=1614(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1783/870, 1-2=-6852/4116, 2-3=-7212/3039, 3-4=-6034/2120, 4-5=-6033/2124, 5-6=-3173/976
BOT CHORD	11-12=-1323/1403, 10-11=-4137/6836, 9-10=-3050/7214, 8-9=-977/3168
WEBS	1-11=-3300/6081, 2-11=-1014/731, 2-10=-1648/2140, 3-10=-258/330, 3-9=-1448/958, 4-9=-482/199, 5-9=-1213/3008, 5-8=-1368/537, 6-8=-1082/3509, 6-7=-1577/490

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1278, 7=140.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=-9
   Concentrated Loads (lb)
   Vert: 16=342(B) 17=342(B) 18=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=-3
   Concentrated Loads (lb)
   Vert: 16=342(B) 17=342(B) 18=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=-9
   Concentrated Loads (lb)
   Vert: 16=342(B) 17=342(B) 18=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=-3
   Concentrated Loads (lb)
   Vert: 16=342(B) 17=342(B) 18=342(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9
Concentrated Loads (lb)
Vert: 16=-425(B) 17=-425(B) 18=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3
Concentrated Loads (lb)
Vert: 16=-425(B) 17=-425(B) 18=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9
Concentrated Loads (lb)
Vert: 16=-425(B) 17=-425(B) 18=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3
Concentrated Loads (lb)
Vert: 16=-425(B) 17=-425(B) 18=-424(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

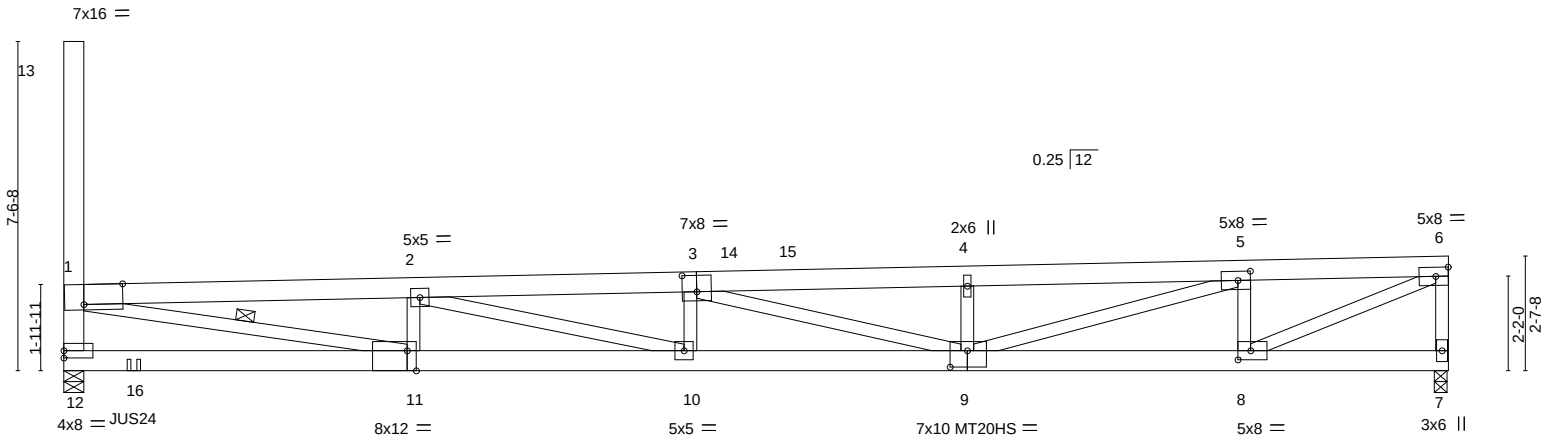
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T47	Roof Special Girder	1	1	I51652922
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-?fuwYbMcDTa0QgAn1PqkrM29OFE00Nt4Qi67DbzM7bk

8-0-2 | 14-4-4 | 20-8-6 | 27-0-8 | 31-8-10
8-0-2 | 6-4-2 | 6-4-2 | 6-4-2 | 4-8-2

Scale = 1:52.8



8-0-2 | 14-4-4 | 20-8-6 | 27-0-8 | 31-8-4 | 31-8-10
8-0-2 | 6-4-2 | 6-4-2 | 6-4-2 | 4-7-12 | 0-0-6

Plate Offsets (X,Y)-- [1:0-10-12,Edge], [3:0-4-0,0-4-8], [5:0-3-7,0-2-8], [6:0-3-7,0-2-8], [8:0-3-8,0-2-8], [9:0-4-12,0-4-8], [11:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.50	10	>749	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.97	10	>386	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 9-11: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=254(LC 14)
Max Uplift 12=-444(LC 11)
Max Grav 12=1929(LC 21), 7=1583(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1702/392, 1-2=-5853/1680, 2-3=-6926/1568, 3-4=-5863/1220, 4-5=-5863/1225, 5-6=-3089/606, 6-7=-1533/329
BOT CHORD	11-12=-897/992, 10-11=-1729/5840, 9-10=-1616/6930, 8-9=-635/3084
WEBS	1-11=-1275/5330, 2-11=-946/366, 2-10=-613/1257, 3-9=-1118/373, 4-9=-488/182, 5-9=-656/2917, 5-8=-1320/363, 6-8=-676/3356

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=444.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-7-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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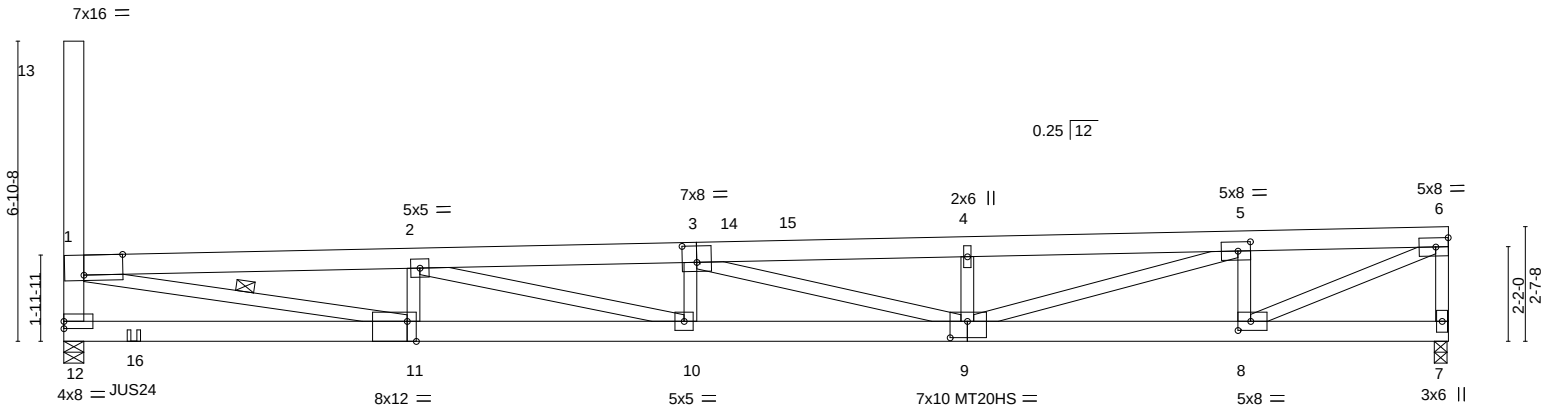
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T47A	ROOF SPECIAL GIRDER	2	1	I51652923
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:53 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-x10hzGOtl4qjf_JA9qsCwn8Vu3vUUHNNu0bDHTzM7bi

8-0-2	14-4-4	20-8-6	27-0-8	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-8-2

Scale = 1:52.8



8-0-2	14-4-4	20-8-6	27-0-8	31-8-4	31-8-10
8-0-2	6-4-2	6-4-2	6-4-2	4-7-12	0-0-6

Plate Offsets (X,Y)-- [1:0-10-12,Edge], [3:0-4-0,0-4-8], [5:0-3-7,0-2-8], [6:0-3-7,0-2-8], [8:0-3-8,0-2-8], [9:0-4-12,0-4-8], [11:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.50	10	>749	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.97	10	>386	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 219 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 9-11: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-0-6 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=230(LC 42)
Max Uplift 12=-438(LC 11)
Max Grav 12=1929(LC 21), 7=1583(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1702/382, 1-2=-5853/1601, 2-3=-6926/1515, 3-4=-5863/1189, 4-5=-5863/1194, 5-6=-3088/594, 6-7=-1533/323
BOT CHORD	11-12=-789/911, 10-11=-1650/5840, 9-10=-1564/6930, 8-9=-622/3083
WEBS	1-11=-1231/5330, 2-11=-946/360, 2-10=-573/1238, 3-9=-1118/351, 4-9=-488/182, 5-9=-636/2917, 5-8=-1320/357, 6-8=-663/3356

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=438.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-7-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=342(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-425(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

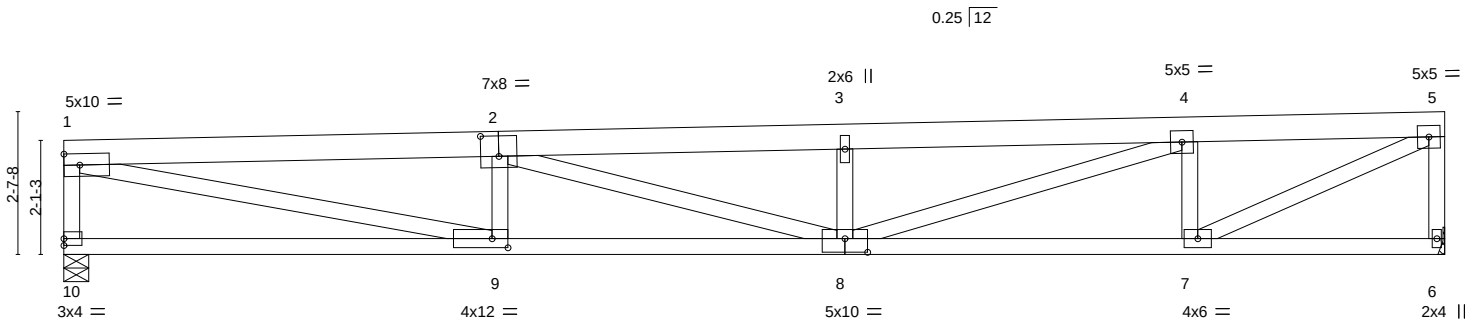
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T48	Jack-Closed	1	1	I51652924
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:54 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-PEa3BcOVWOyaH8uMjXNRS_gj4SCIDkkW6gLnqwzM7bh

8-0-4	14-4-6	20-8-8	25-4-12
8-0-4	6-4-2	6-4-2	4-8-4

Scale = 1:42.4



8-0-4	14-4-6	20-8-8	25-4-12
8-0-4	6-4-2	6-4-2	4-8-4

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.24	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.48	8-9	>622	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-8 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=28(LC 12)
Max Grav 10=1292(LC 5), 6=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1205/304, 1-2=-3649/801, 2-3=-3851/836, 3-4=-3850/842, 4-5=-2234/488
BOT CHORD 8-9=-816/3633, 7-8=-489/2229
WEBS 1-9=-778/3541, 2-9=-624/266, 3-8=-484/201, 4-8=-379/1707, 4-7=-983/317, 5-7=-546/2487, 5-6=-1194/288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 4, 5, 6, 24, 25, 26, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 6-10=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-61

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-66, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-39, 6-10=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-40
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=13, 1-5=-9
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-52
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=-3, 1-5=-3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-51, 6-10=-20
      Horz: 1-10=10, 1-5=-9
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-52
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-57, 6-10=-20
      Horz: 1-10=-2, 1-5=-3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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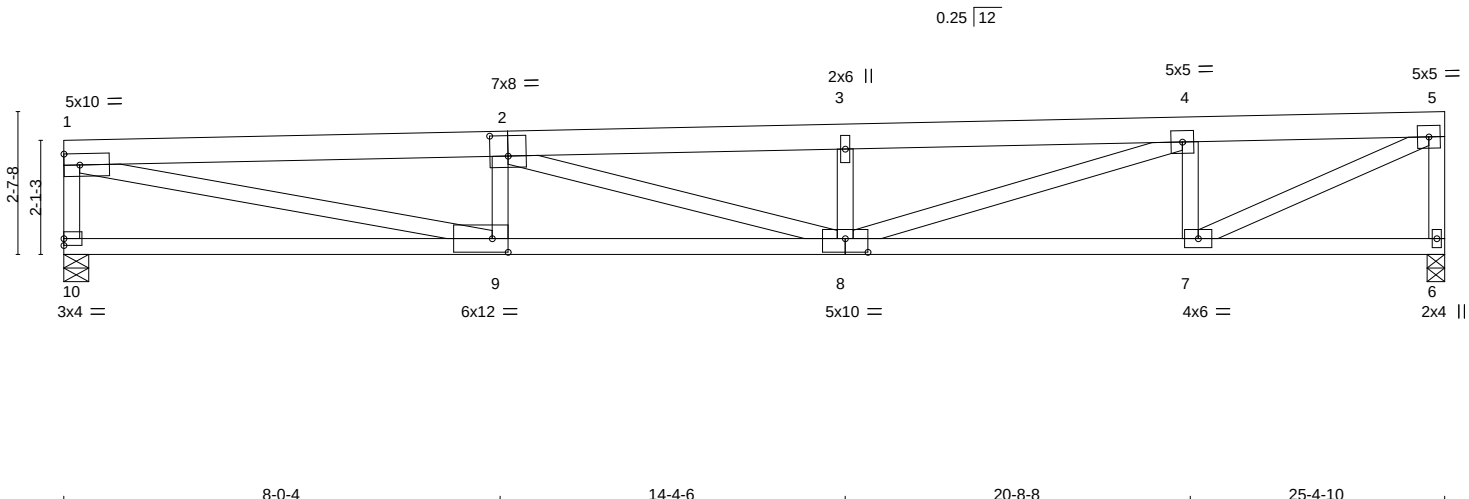
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T49	Monopitch	4	1	I51652925
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-tQ8ROyP7Hh4RvITYGFvg?CDwQsUqyB0fLK4KMMzM7bg

8-0-4	14-4-6	20-8-8	25-4-10
8-0-4	6-4-2	6-4-2	4-8-2

Scale = 1:42.4



8-0-4	14-4-6	20-8-8	25-4-10
8-0-4	6-4-2	6-4-2	4-8-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0], [9:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.24	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.50	8-9	>608	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=48(LC 12)
Max Grav 10=1229(LC 21), 6=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1143/307, 1-2=-3622/784, 2-3=-3844/839, 3-4=-3844/845, 4-5=-2222/505, 5-6=-1186/288
BOT CHORD 8-9=-853/3661, 7-8=-505/2218
WEBS 1-9=-776/3513, 2-9=-619/266, 3-8=-476/197, 4-8=-383/1712, 4-7=-972/316, 5-7=-541/2436

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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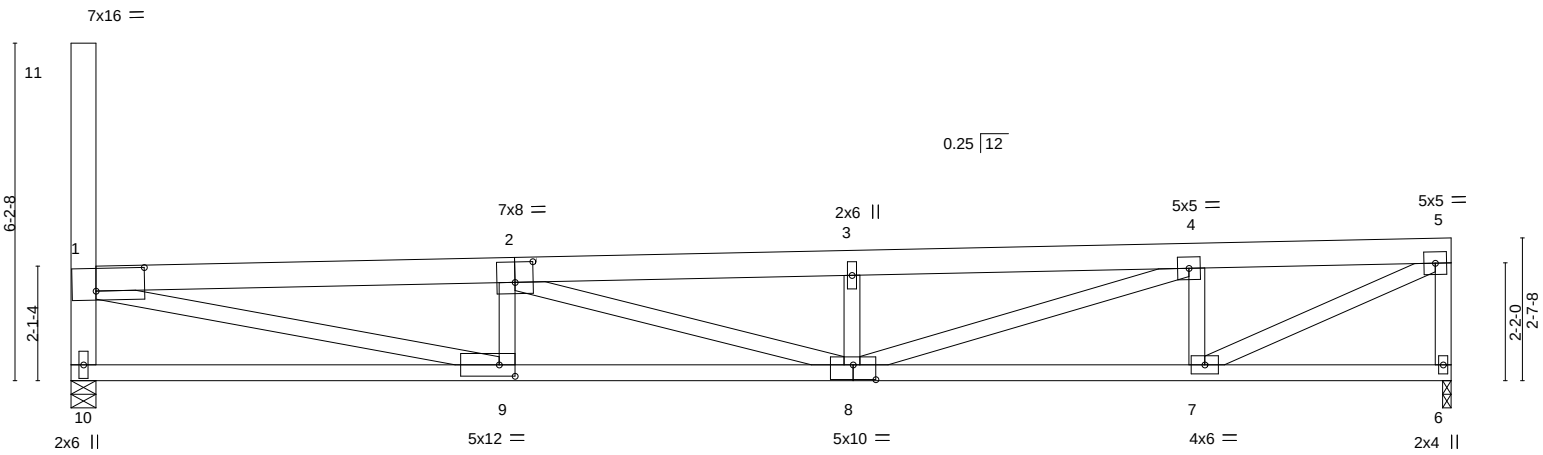
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T49A	Monopitch	4	1	I51652926
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-tQ8ROyP7Hh4RvlTYGFvg?CDsisXYy9OfLK4KMMzM7bg

8-0-4 (8-0-4) | 14-4-6 (6-4-2) | 20-8-8 (6-4-2) | 25-4-10 (4-8-2)

Scale = 1:42.4



8-0-4 (8-0-4) | 14-4-6 (6-4-2) | 20-8-8 (6-4-2) | 25-4-10 (4-8-2)

Plate Offsets (X,Y)-- [1:0-10-12,0-5-0], [2:0-4-0,0-4-8], [8:0-5-0,0-3-4], [9:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.26	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.50	8-9	>596	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-14 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-1-14
Max Horz 10=202(LC 12)
Max Grav 10=1508(LC 21), 6=1258(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1420/348, 1-2=-3920/1011, 2-3=-3992/959, 3-4=-3987/963, 4-5=-2285/527, 5-6=-1215/314
BOT CHORD 9-10=-479/530, 8-9=-1077/3957, 7-8=-558/2280
WEBS 1-9=-906/3632, 2-9=-660/292, 2-8=-211/257, 3-8=-457/205, 4-8=-466/1797, 4-7=-1004/341, 5-7=-600/2506

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=-9, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=-3, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=-9, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=-3, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T50	Monopitch	5	1	I51652927
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:58 2022 Page 1
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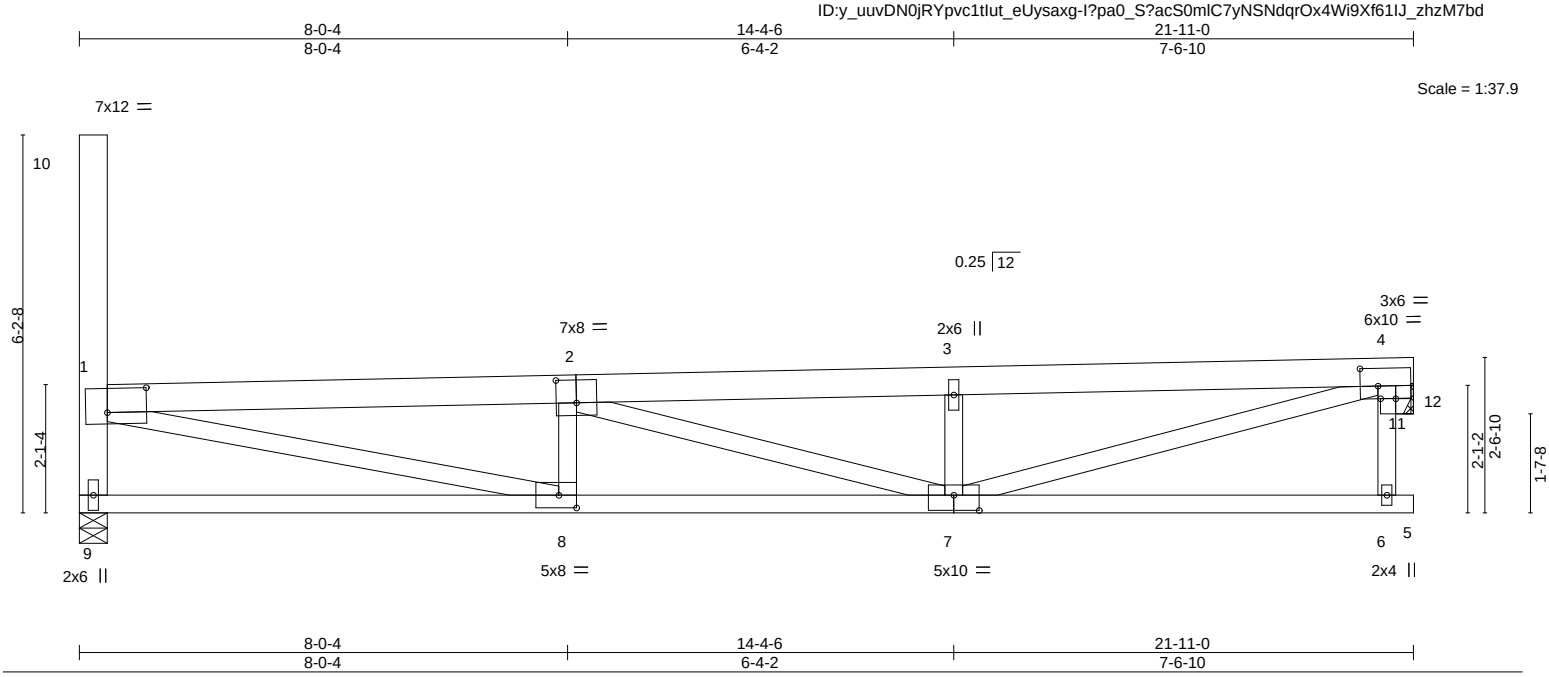

Plate Offsets (X,Y)-- [1:0-7-12,0-4-12], [2:0-4-0,0-4-8], [4:0-3-8,0-3-8], [7:0-5-0,0-3-0], [8:0-3-8,0-2-8], [11:0-3-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.20	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.37	7-8	>709	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 136 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 9-10: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-3 oc bracing.

REACTIONS. (size) 9=0-5-8, 12=Mechanical
Max Horz 9=182(LC 12)
Max Grav 9=1327(LC 21), 12=1062(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1241/354, 1-2=-3196/951, 2-3=-2823/784, 3-4=-2824/791
BOT CHORD 8-9=-459/508, 7-8=-983/3222
WEBS 1-8=-874/2914, 2-8=-504/280, 2-7=-423/198, 3-7=-521/260, 4-7=-761/2726, 4-12=-1247/347

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-60, 5-9=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-65, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-39, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-77, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-42, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-51, 5-9=-20
Horz: 1-9=13, 1-10=27, 1-4=-9
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-57, 5-9=-20
Horz: 1-9=-3, 1-10=-27, 1-4=-3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-51, 5-9=-20
Horz: 1-9=10, 1-10=-18, 1-4=-9
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-4=-57, 5-9=-20
Horz: 1-9=-2, 1-10=-18, 1-4=-3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-4=-70, 5-9=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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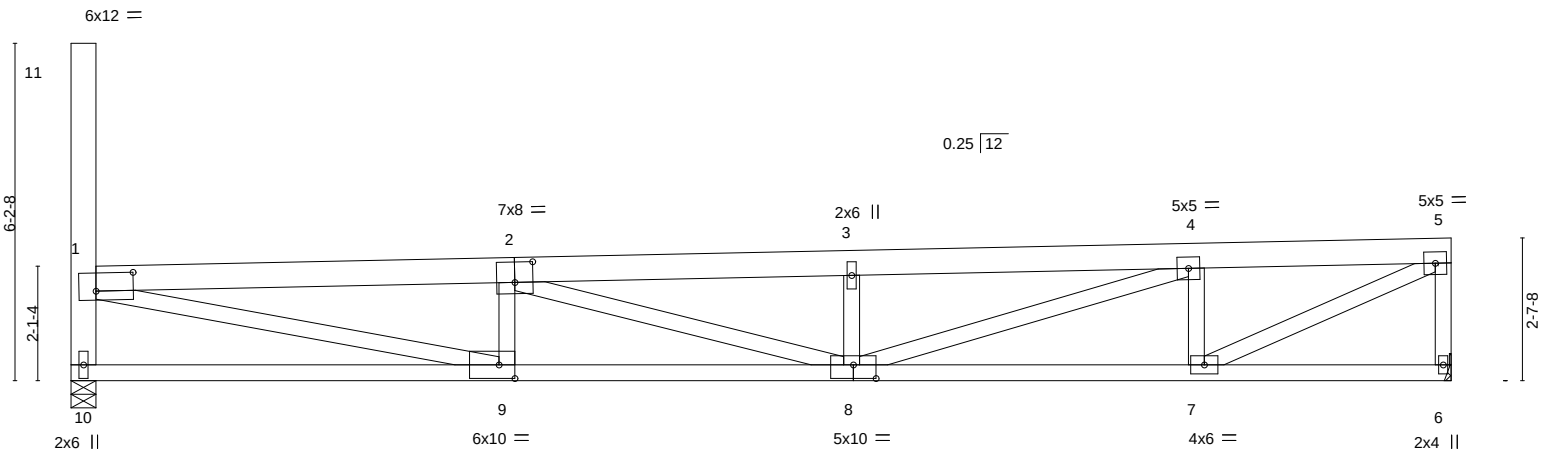
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T50A	Jack-Closed	2	1	I51652928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:45:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-mBNyEKSeLwatOvnJV4zc92NdPTruuzYFGy2YV7zM7bc

8-0-4	14-4-6	20-8-8	25-4-12
8-0-4	6-4-2	6-4-2	4-8-4

Scale = 1:42.4



8-0-4	14-4-6	20-8-8	25-4-12
8-0-4	6-4-2	6-4-2	4-8-4

Plate Offsets (X,Y)-- [1:0-8-4,0-4-0], [2:0-4-0,0-4-8], [8:0-5-0,0-3-0], [9:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.24	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.49	8-9	>619	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=183(LC 12)
Max Grav 10=1225(LC 21), 6=1225(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1140/346, 1-2=-3566/1017, 2-3=-3829/970, 3-4=-3822/972, 4-5=-2224/542
BOT CHORD 9-10=-447/476, 8-9=-1052/3603, 7-8=-543/2219
WEBS 1-9=-896/3369, 2-9=-597/290, 2-8=-206/257, 3-8=-485/205, 4-8=-460/1688, 4-7=-979/343, 5-7=-606/2476, 5-6=-1190/313

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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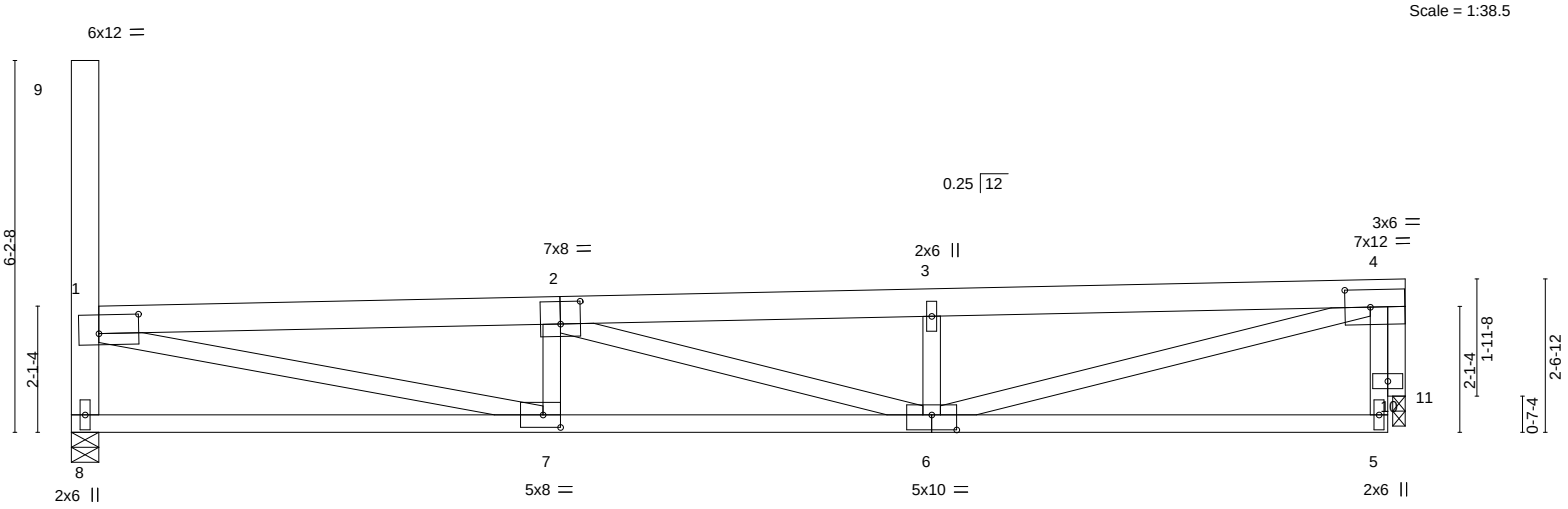
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T51	Monopitch	3	1	I51652929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-EOxKRgTG6Dik?3MW3oUriFwoltEndR7OVco51ZzM7bb

8-0-4 | 14-4-6 | 22-3-4
8-0-4 | 6-4-2 | 7-10-14

Scale = 1:38.5



8-0-4 | 14-4-6 | 22-3-4
8-0-4 | 6-4-2 | 7-10-14

Plate Offsets (X,Y)-- [1:0-8-0,0-3-12], [2:0-4-0,0-4-8], [4:0-5-1,0-3-8], [6:0-5-0,0-3-0], [7:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.18	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	6-7	>742	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 139 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-9: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-9-10 oc bracing.

REACTIONS. (size) 8=0-5-8, 11=0-2-8
Max Horz 8=186(LC 12)
Max Grav 8=1066(LC 21), 11=1034(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-8=-982/353, 1-2=-2933/958, 2-3=-2797/807, 3-4=-2798/814
BOT CHORD	7-8=-464/515, 6-7=-996/2960, 5-6=-76/284
WEBS	1-7=-876/2739, 2-7=-460/280, 3-6=-544/262, 4-6=-778/2612, 4-11=-1064/299

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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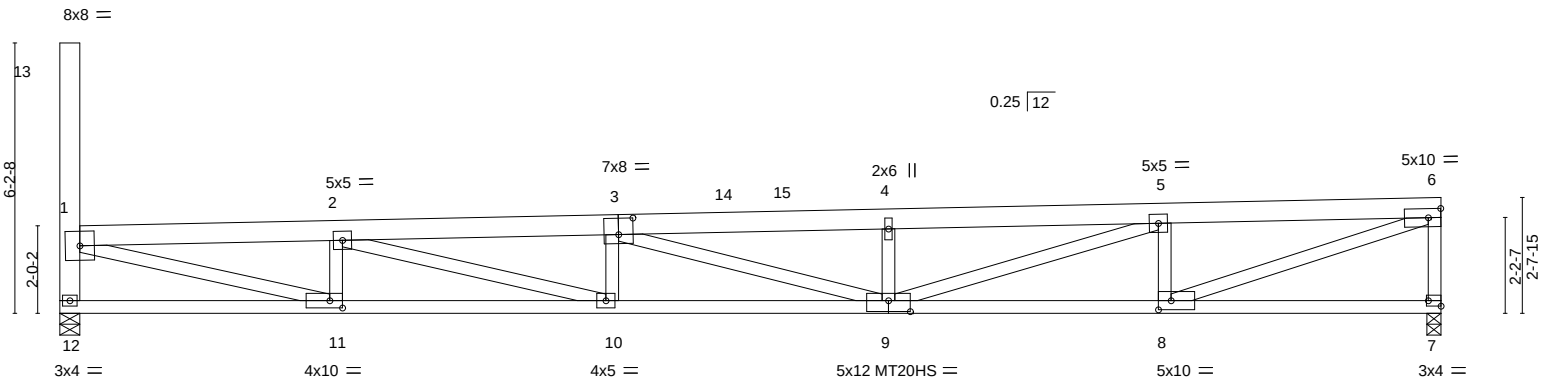
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T52	Monopitch	11	1	I51652930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:01 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-iaVif?UusXqbdDxidV?4FTTyNHaQMuDYjGXeZ0zM7ba

6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-8	31-8-10
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-1-8], [8:0-3-8,0-2-8], [9:0-6-0,0-3-0], [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.47	9-10	>794	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.95	9-10	>397	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP 2400F 2.0E *Except* 7-9: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-11 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=207(LC 12)
Max Grav 12=1782(LC 21), 7=1569(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1705/319, 1-2=-4675/1028, 2-3=-6364/1218, 3-4=-5960/1082, 4-5=-5960/1087, 5-6=-3736/662, 6-7=-1503/310
BOT CHORD	11-12=-464/527, 10-11=-1080/4665, 9-10=-1273/6383, 8-9=-692/3730
WEBS	1-11=-823/4531, 2-11=-1060/292, 2-10=-443/1756, 3-10=-344/196, 3-9=-449/157, 4-9=-495/175, 5-9=-455/2348, 5-8=-1223/331, 6-8=-714/3893

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

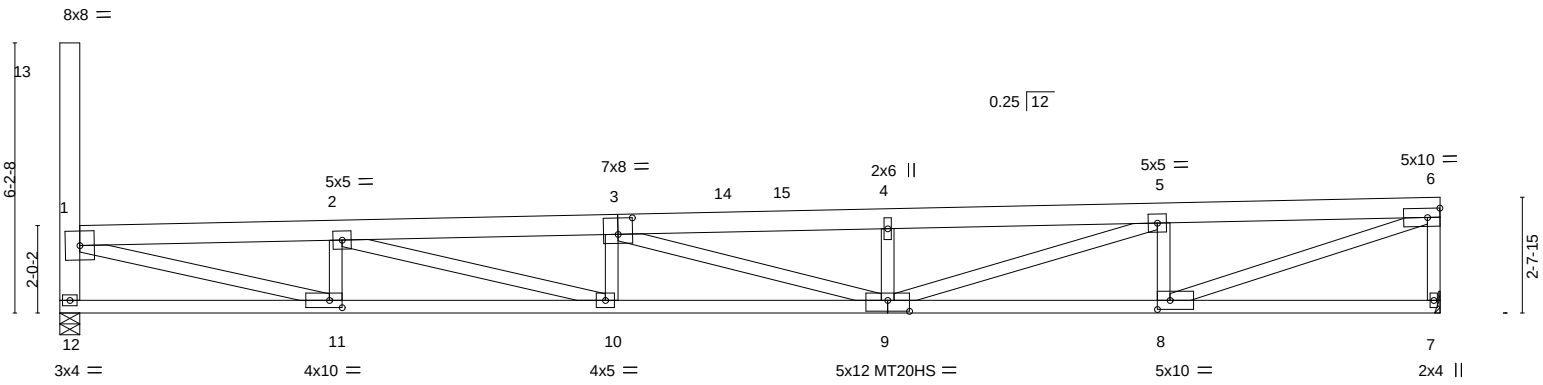
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T53	Jack-Closed	2	1	I51652931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-Am35sLVWdrzSFNVuBDXJng?66hxm5K3hywHC6SzM7bZ

6-4-2	12-8-4	19-0-6	25-4-8	31-3-4	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	5-10-12	0-5-8

Scale = 1:53.0



6-4-2	12-8-4	19-0-6	25-4-8	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-4

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-3-7,0-2-9], [8:0-3-8,0-2-8], [9:0-6-0,0-3-0], [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.48	9-10	>792	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.95	9-10	>396	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E *Except*
7-9: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=187(LC 12)
Max Grav 12=1783(LC 21), 7=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1706/317, 1-2=-4676/1031, 2-3=-6369/1225, 3-4=-5960/1091, 4-5=-5960/1097, 5-6=-3762/677
BOT CHORD 11-12=-436/475, 10-11=-1054/4665, 9-10=-1252/6387, 8-9=-678/3755
WEBS 1-11=-817/4532, 2-11=-1061/290, 2-10=-438/1760, 3-10=-344/195, 3-9=-454/155, 4-9=-489/173, 5-9=-449/2321, 5-8=-1243/335, 6-8=-723/4001, 6-7=-1516/308

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T54	Monopitch	5	1	I51652932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:03 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ezdT3hV8O85JsW45kw2YKtYF75HdqpkrBa0leuzM7bY

6-5-2	12-6-8	18-10-10	25-2-12	31-6-14	37-11-0
6-5-2	6-1-6	6-4-2	6-4-2	6-4-2	6-4-2

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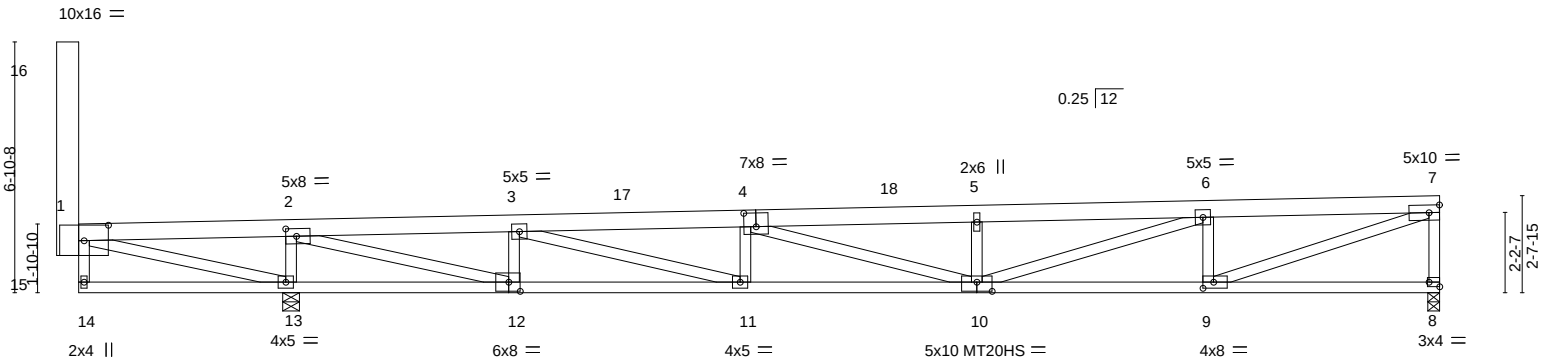

6-2-6	6-5-2	12-6-8	18-10-10	25-2-12	31-6-14	37-11-0
6-2-6	0-2-12	6-1-6	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-8-0,0-5-2], [2:0-3-8,0-2-8], [4:0-4-0,0-4-8], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [10:0-5-0,0-3-0], [12:0-3-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.40	10-11	>944	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.84	10-11	>446	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 231 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
15-16: 2x8 SP 2400F 2.0E, 2-12: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-6 oc bracing.

REACTIONS. (size) 8=0-3-14, 13=0-5-8
Max Horz 13=235(LC 12)
Max Uplift 13=-34(LC 11)
Max Grav 8=1482(LC 21), 13=2496(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1013/1278, 2-3=-3274/640, 3-4=-5442/853, 4-5=-5388/777, 5-6=-5388/782, 6-7=-3481/483, 7-8=-1417/238
BOT CHORD 13-14=-303/372, 12-13=-1303/1037, 11-12=-688/3267, 10-11=-896/5436, 9-10=-511/3475
WEBS 1-13=-1293/371, 2-13=-2018/381, 2-12=-764/4533, 3-12=-1063/288, 3-11=-514/2340, 4-11=-501/210, 5-10=-502/154, 6-10=-321/2014, 6-9=-1129/265, 7-9=-525/3623

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-5-6 to 15-5-6, Exterior(2) 15-5-6 to 22-9-4, Corner(3) 22-9-4 to 37-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) The Fabrication Tolerance at joint 1 = 0%
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-62

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-68, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-70

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-41

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-83

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-45

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=-13, 1-16=-27, 2-7=-51, 13-14=-10, 8-13=-20
Horz: 1-14=13, 1-16=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-53

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=3, 1-16=27, 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-16=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-59

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=-10, 1-16=18, 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-16=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-53

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-15=2, 1-16=18, 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-16=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-59

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-73

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T55	Roof Special Girder	1	1	I51652933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:04 2022 Page 1
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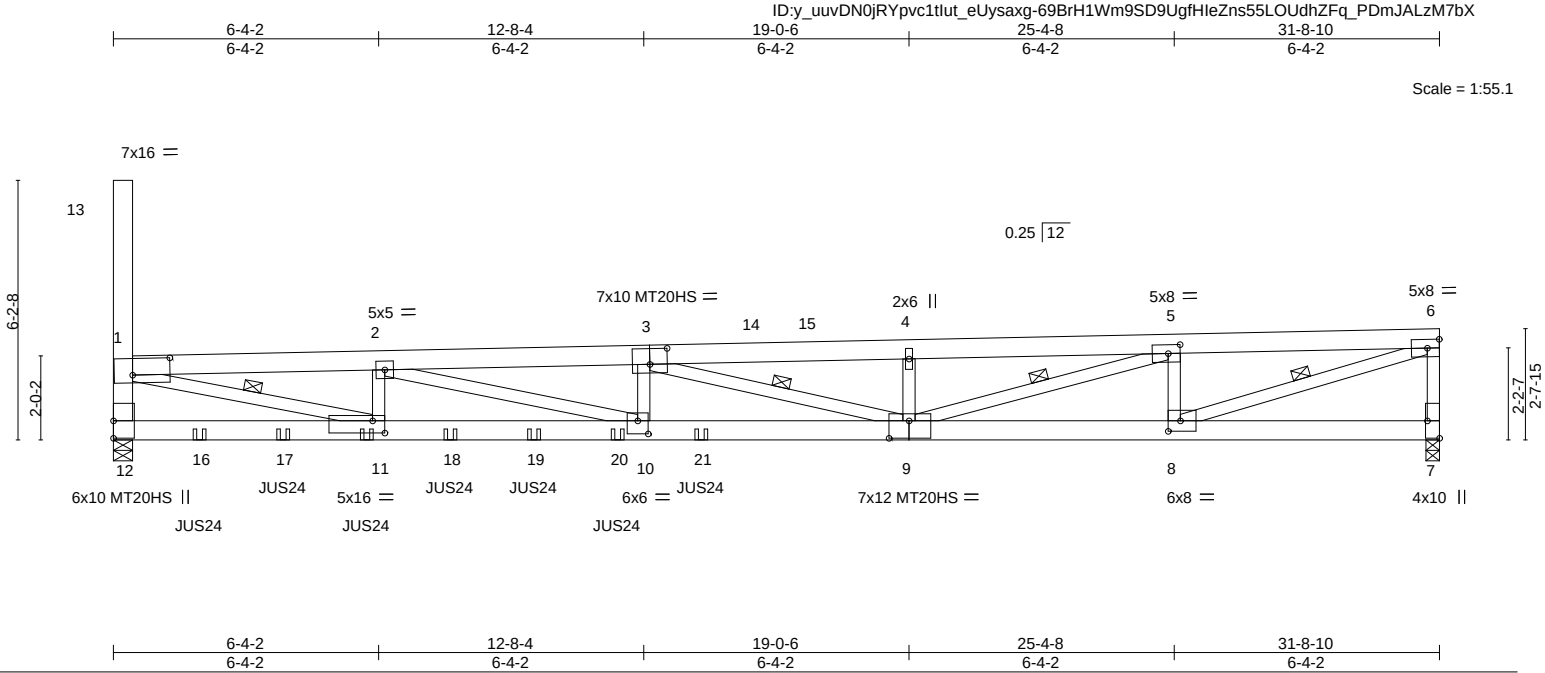

Plate Offsets (X,Y)-- [1:0-10-12,0-4-12], [3:0-5-0,0-4-8], [5:0-3-7,0-2-8], [6:0-3-7,0-2-8], [7:Edge,0-3-8], [8:0-3-8,0-3-0], [9:0-5-12,0-5-0], [10:0-3-0,0-3-12], [11:0-3-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	0.97	10-11	>389	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-1.19	9-10	>316	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 9-12: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1, 1-11: 2x4 SP 2400F 2.0E, 6-8: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-9-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-9-2 oc bracing.
WEBS	1 Row at midpt 1-11, 3-9, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=205(LC 12)
Max Uplift 12=-1689(LC 11), 7=-529(LC 15)
Max Grav 12=2956(LC 50), 7=1735(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2530/1687, 1-2=-8311/6144, 2-3=-10291/7103, 3-4=-8033/4806, 4-5=-8032/4811, 5-6=-4530/2399, 6-7=-1654/878
BOT CHORD	11-12=-848/910, 10-11=-6193/8303, 9-10=-7105/10235, 8-9=-2428/4503
WEBS	1-11=-5747/8057, 2-11=-1105/430, 2-10=-1230/2220, 3-10=-874/896, 3-9=-2555/2354, 4-9=-482/184, 5-9=-2543/3684, 5-8=-1445/931, 6-8=-2522/4695

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1689, 7=529.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 4,2022

LOAD CASE(S) Standard

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F) 18=-78(F) 19=-78(F) 20=-78(F) 21=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
   Vert: 11=217(F) 16=217(F) 17=217(F) 18=216(F) 19=216(F) 20=215(F) 21=215(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
   Vert: 11=217(F) 16=217(F) 17=217(F) 18=216(F) 19=216(F) 20=215(F) 21=215(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
   Vert: 11=217(F) 16=217(F) 17=217(F) 18=216(F) 19=216(F) 20=215(F) 21=215(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
   Vert: 11=217(F) 16=217(F) 17=217(F) 18=216(F) 19=216(F) 20=215(F) 21=215(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-94(F) 16=-94(F) 17=-94(F) 18=-94(F) 19=-94(F) 20=-94(F) 21=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 11=-299(F) 16=-300(F) 17=-300(F) 18=-299(F) 19=-298(F) 20=-298(F) 21=-298(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-299(F) 16=-300(F) 17=-300(F) 18=-299(F) 19=-298(F) 20=-298(F) 21=-298(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 11=-299(F) 16=-300(F) 17=-300(F) 18=-299(F) 19=-298(F) 20=-298(F) 21=-298(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-299(F) 16=-300(F) 17=-300(F) 18=-299(F) 19=-298(F) 20=-298(F) 21=-298(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T56	Monopitch	8	1	I51652934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:05 2022 Page 1
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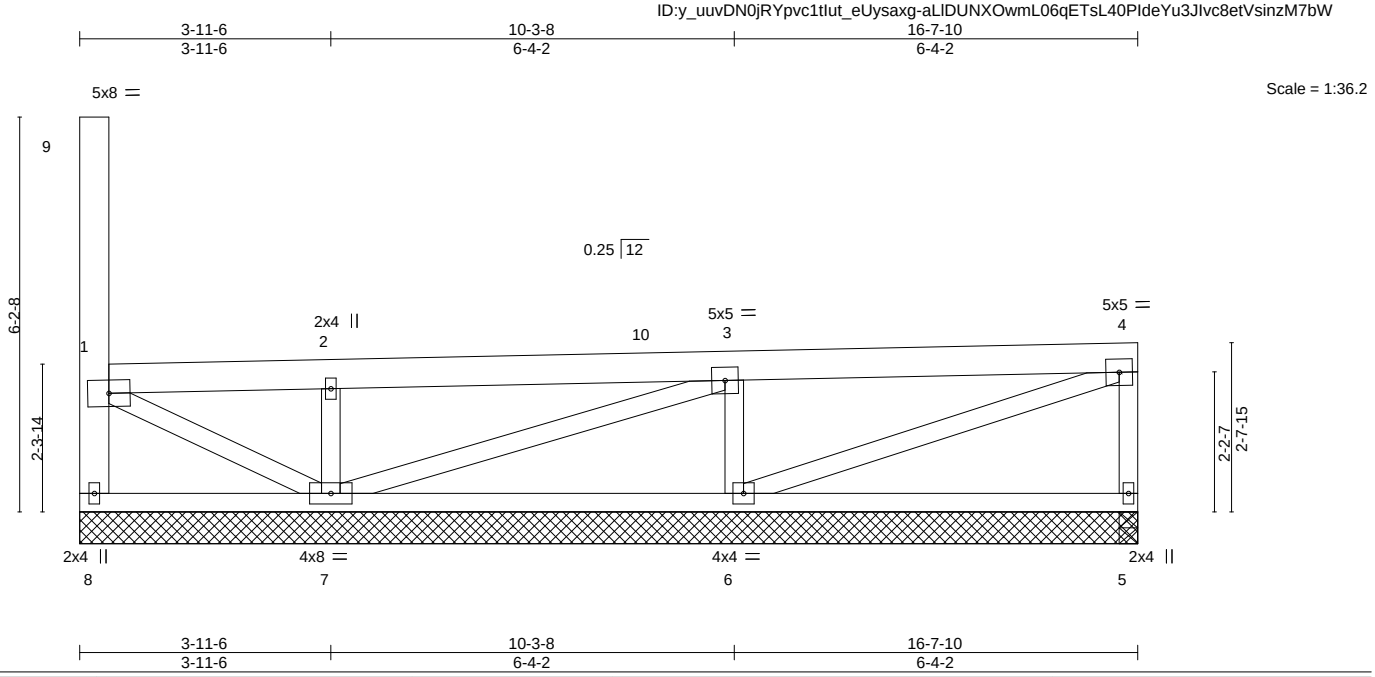

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	6	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 108 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS. All bearings 16-7-10.
(lb) - Max Horz 8=195(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 8=-118(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 5, 5 except 8=259(LC 25), 7=750(LC 21), 6=716(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-235/293
BOT CHORD 7-8=-364/521
WEBS 1-7=-345/259, 2-7=-608/275, 3-6=-573/325

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 8=118.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-10=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-60, 5-8=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-118-to-10=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-124-to-10=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-97-to-10=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-155-to-10=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-10=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-110-to-10=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-115-to-10=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-110-to-10=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-115-to-10=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-10=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T57	Roof Special Girder	1	1	I51652935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:07 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Xks_v3ZfSNbkL8Oszm6UUjjywibYmbPQ6B_znfzM7bU

2-3-8	8-7-10	14-11-12	21-3-14	27-8-0
2-3-8	6-4-2	6-4-2	6-4-2	6-4-2

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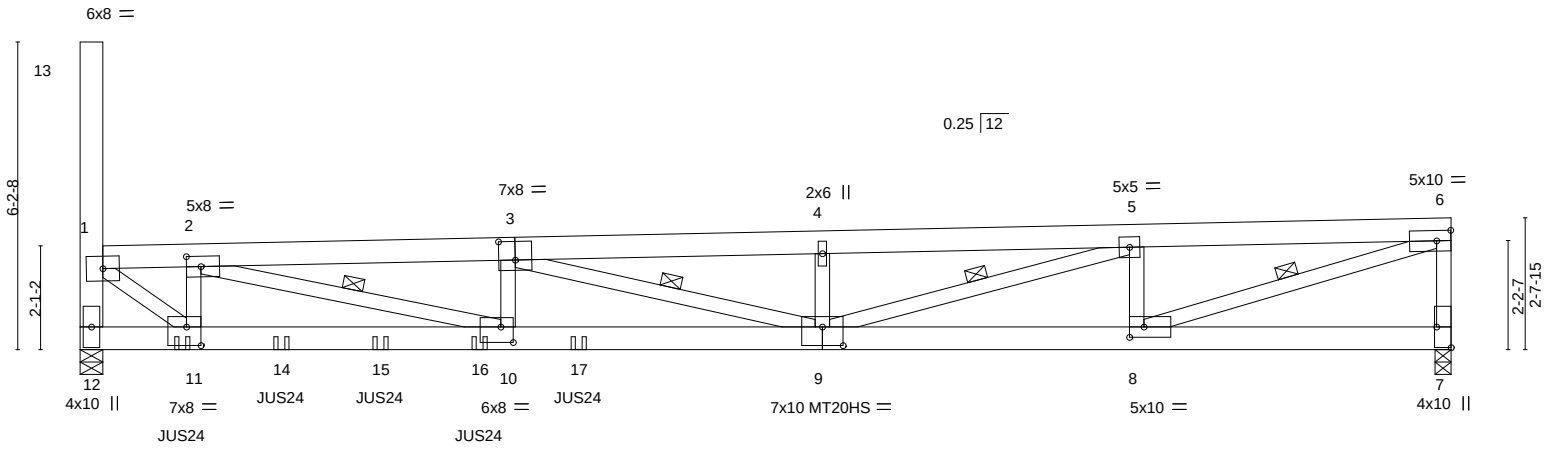

2-3-8	8-7-10	14-11-12	21-3-14	27-8-0
2-3-8	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-3-8], [8:0-3-8,0-2-8], [9:0-5-0,0-4-8], [10:0-3-0,0-3-12], [11:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.50	9-10	>655	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.65	9-10	>501	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-6-5 oc bracing.
WEBS	1 Row at midpt 2-10, 3-9, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=202(LC 40)
Max Uplift 12=-1262(LC 11), 7=-314(LC 15)
Max Grav 12=2461(LC 50), 7=1479(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-2669/1844, 1-2=-3476/2579, 2-3=-6761/4598, 3-4=-5861/3353, 4-5=-5862/3359, 5-6=-3598/1733, 6-7=-1397/664
BOT CHORD	11-12=-490/607, 10-11=-2632/3477, 9-10=-4625/6755, 8-9=-1764/3592
WEBS	1-11=-2741/4071, 2-11=-1578/800, 2-10=-2360/3689, 3-10=-771/723, 3-9=-1530/1601, 4-9=-479/220, 5-9=-1715/2505, 5-8=-1134/705, 6-8=-1820/3712

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1262, 7=314.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 4,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-70, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-94(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-71
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-60, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-78(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
      Vert: 1=-118-to-3=-61
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-66, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-78(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-3=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-39, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-78(B) 14=-78(B) 15=-78(B) 16=-78(B) 17=-78(B)
   Trapezoidal Loads (plf)
      Vert: 1=-97-to-3=-40
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-78, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-94(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-3=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-42, 7-12=-20
   Concentrated Loads (lb)
      Vert: 11=-94(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-94(B)
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-43
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
      Vert: 11=217(B) 14=216(B) 15=216(B) 16=215(B) 17=215(B)
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
      Vert: 11=217(B) 14=216(B) 15=216(B) 16=215(B) 17=215(B)
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
      Vert: 11=217(B) 14=216(B) 15=216(B) 16=215(B) 17=215(B)
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-3=-52
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
      Vert: 11=217(B) 14=216(B) 15=216(B) 16=215(B) 17=215(B)
   Trapezoidal Loads (plf)
      Vert: 1=-115-to-3=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-94(B) 14=-94(B) 15=-94(B) 16=-94(B) 17=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 11=-299(B) 14=-299(B) 15=-298(B) 16=-298(B) 17=-298(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-52

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-299(B) 14=-299(B) 15=-298(B) 16=-298(B) 17=-298(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 11=-299(B) 14=-299(B) 15=-298(B) 16=-298(B) 17=-298(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-3=-52

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-299(B) 14=-299(B) 15=-298(B) 16=-298(B) 17=-298(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-3=-57

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T58	Roof Special	11	1	I51652936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:08 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-?wQM7PZHDhjbzIz2XTej1xF9L6w3V48aKrkWJ6zM7bT

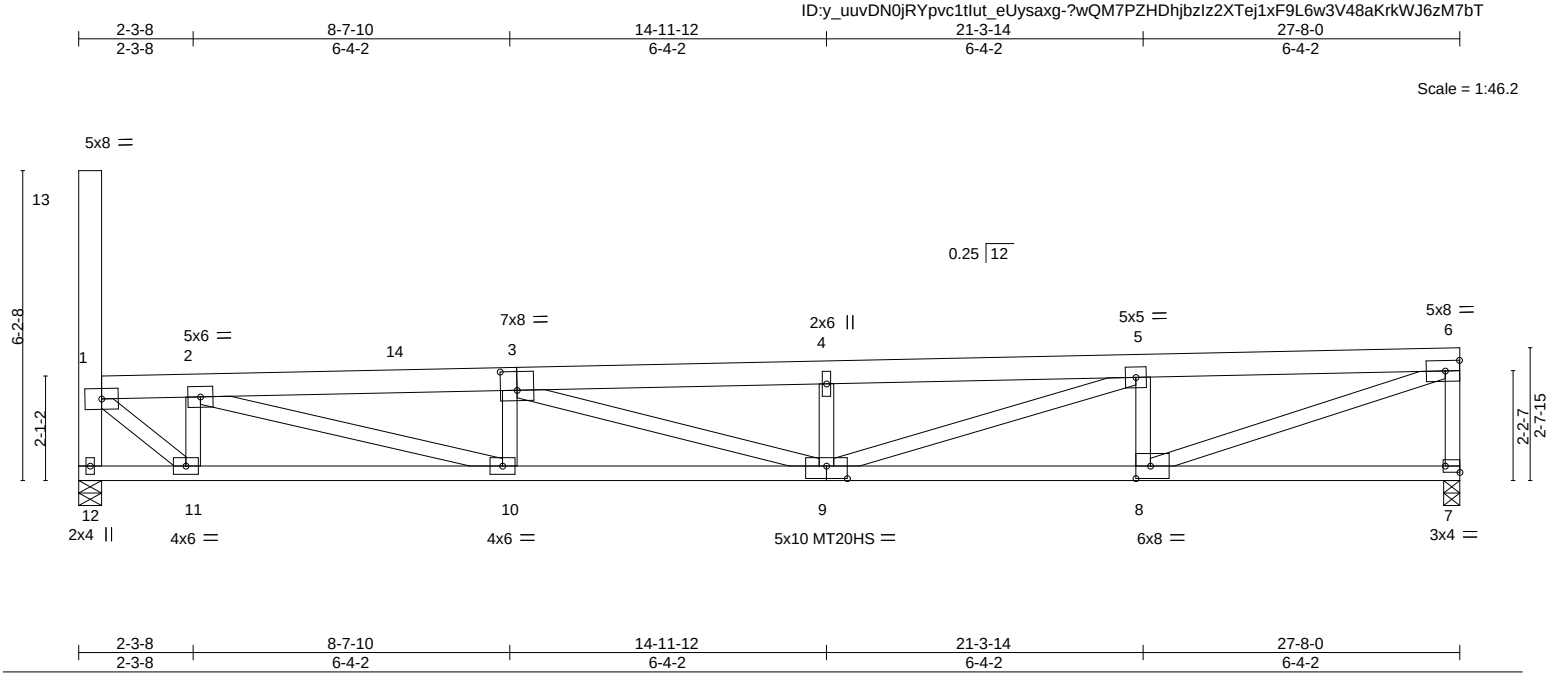

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-1-8], [8:0-3-8,0-3-0], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.31	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.60	9-10	>544	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-4 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=204(LC 12)
Max Grav 12=1643(LC 21), 7=1378(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1641/309, 1-2=-1968/671, 2-3=-4548/1055, 3-4=-4816/1046, 4-5=-4816/1051, 5-6=-3194/671, 6-7=-1314/322
BOT CHORD 11-12=-399/511, 10-11=-727/1968, 9-10=-1117/4582, 8-9=-703/3188
WEBS 1-11=-426/2483, 2-11=-1477/346, 2-10=-676/2667, 3-10=-598/265, 3-9=-212/379, 4-9=-488/195, 5-9=-407/1712, 5-8=-1026/335, 6-8=-724/3322

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 3-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-178-to-14=-77, 14=-77-to-3=-61

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-185-to-14=-83, 14=-83-to-3=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-14=-56, 14=-56-to-3=-40

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-156-to-3=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-43

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-170-to-14=-68, 14=-68-to-3=-52

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-175-to-14=-74, 14=-74-to-3=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-170-to-14=-68, 14=-68-to-3=-52

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-175-to-14=-74, 14=-74-to-3=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-148-to-3=-71

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Chesterfield, MO 63017

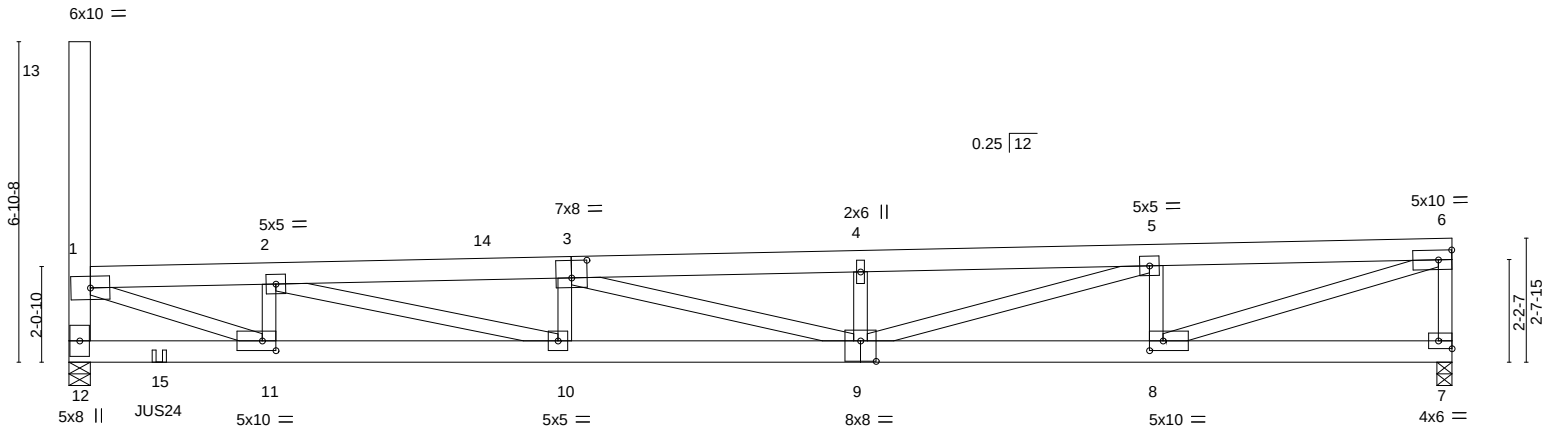
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T59	Roof Special Girder	3	1	I51652937
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-T6_kKlav__rSaRYE5B9yZ8oIOVIZEVrjZVT4rYzM7bS

4-3-8	10-7-10	16-11-12	23-3-14	29-8-0
4-3-8	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:49.4



4-3-8	10-7-10	16-11-12	23-3-14	29-8-0
4-3-8	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-2-0], [8:0-3-8,0-2-8], [9:0-4-0,0-5-4], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.38	9-10	>928	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.73	9-10	>479	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-4-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=227(LC 14)
Max Uplift 12=-353(LC 11)
Max Grav 12=1839(LC 21), 7=1485(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1696/464, 1-2=-3635/1353, 2-3=-5769/1484, 3-4=-5624/1292, 4-5=-5624/1297, 5-6=-3613/777, 6-7=-1403/340
BOT CHORD	11-12=-650/784, 10-11=-1405/3628, 9-10=-1540/5796, 8-9=-807/3607
WEBS	1-11=-974/3631, 2-11=-1212/357, 2-10=-762/2205, 3-10=-458/264, 3-9=-276/216, 4-9=-476/184, 5-9=-553/2115, 5-8=-1137/365, 6-8=-821/3728

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=353.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-78(B)
Trapezoidal Loads (plf)
Vert: 1=-118-to-14=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-67, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-78(B)
Trapezoidal Loads (plf)
Vert: 1=-125-to-14=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-39, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-78(B)
Trapezoidal Loads (plf)
Vert: 1=-97-to-14=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-79, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-157-to-14=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-42, 7-12=-20
Concentrated Loads (lb)
Vert: 15=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-120-to-14=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 15=276(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-14=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 15=276(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-14=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 15=276(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-14=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 15=276(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-14=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20

Continued on page 3

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 15=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-148-to-14=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 15=-359(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-14=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 15=-359(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-14=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 15=-359(B)
Trapezoidal Loads (plf)
Vert: 1=-110-to-14=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 15=-359(B)
Trapezoidal Loads (plf)
Vert: 1=-115-to-14=-57

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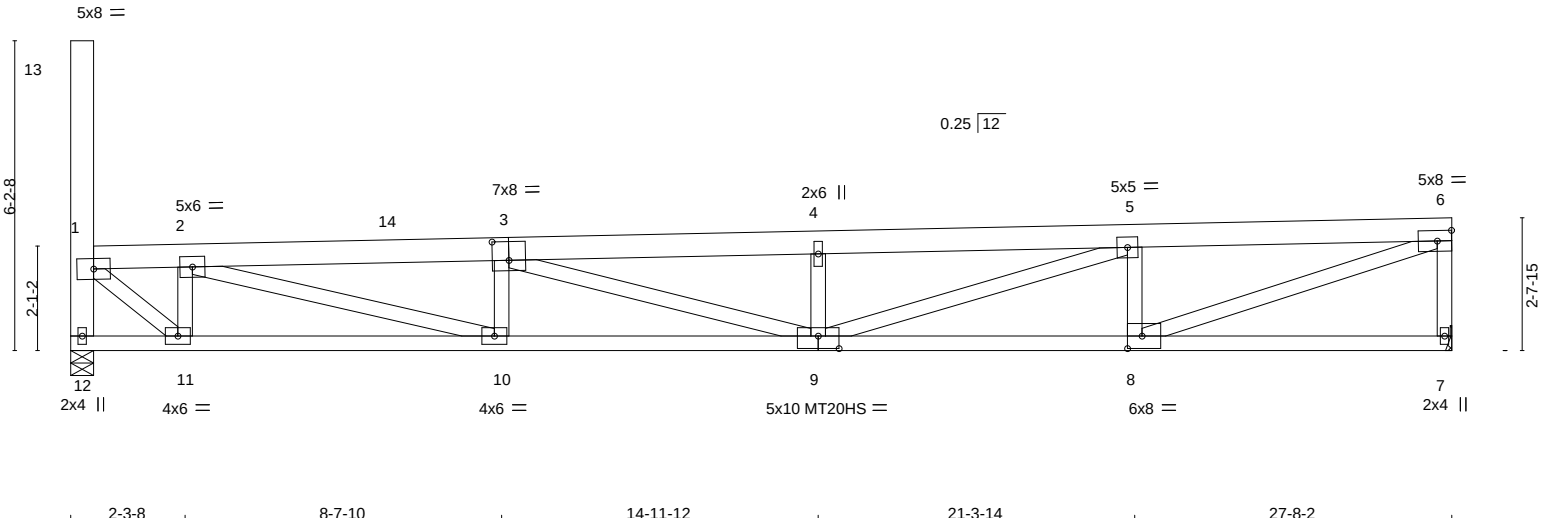
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T60	Jack-Closed	3	1	I51652938
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:11 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-PV6UlQc9Wc5AqlidCcBQfZtgbJywiQV00pyAwRzM7bQ

2-3-8	8-7-10	14-11-12	21-3-14	27-8-2
2-3-8	6-4-2	6-4-2	6-4-2	6-4-4

Scale = 1:46.2



2-3-8	8-7-10	14-11-12	21-3-14	27-8-2
2-3-8	6-4-2	6-4-2	6-4-2	6-4-4

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [6:0-3-7,0-2-8], [8:0-3-8,0-3-0], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.31	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.61	9-10	>541	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except* 7-9: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-1 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=184(LC 12)
Max Grav 12=1644(LC 21), 7=1379(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1641/307, 1-2=-1968/673, 2-3=-4551/1061, 3-4=-4815/1055, 4-5=-4815/1060, 5-6=-3218/687
BOT CHORD	11-12=-369/458, 10-11=-699/1968, 9-10=-1093/4586, 8-9=-688/3211
WEBS	1-11=-428/2483, 2-11=-1478/348, 2-10=-670/2670, 3-10=-598/263, 3-9=-205/372, 4-9=-482/193, 5-9=-401/1687, 5-8=-1044/340, 6-8=-734/3422, 6-7=-1325/320

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-148-to-3=-71

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-178-to-14=-77, 14=-77-to-3=-61
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-185-to-14=-83, 14=-83-to-3=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-14=-56, 14=-56-to-3=-40
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-156-to-3=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-3=-43
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9
   Trapezoidal Loads (plf)
      Vert: 1=-170-to-14=-68, 14=-68-to-3=-52
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3
   Trapezoidal Loads (plf)
      Vert: 1=-175-to-14=-74, 14=-74-to-3=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9
   Trapezoidal Loads (plf)
      Vert: 1=-170-to-14=-68, 14=-68-to-3=-52
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 3-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3
   Trapezoidal Loads (plf)
      Vert: 1=-175-to-14=-74, 14=-74-to-3=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 3-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-148-to-3=-71

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Chesterfield, MO 63017

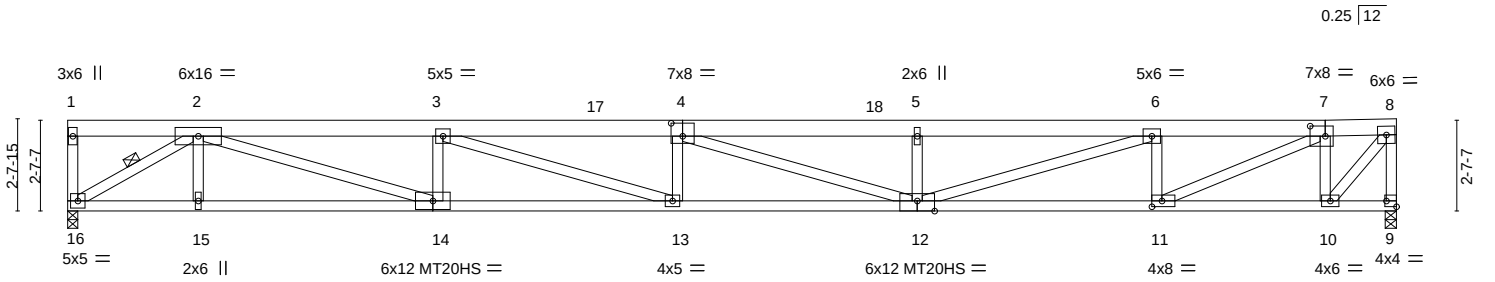
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T61	Roof Special	1	1	I51652939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:13 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-LuDFA6dQ2DLu33r0K1Duk_zzv7fbAJeJU7RH_JzM7bO

3-9-3	10-8-3	17-7-3	24-6-3	31-5-3	36-3-8	38-4-3
3-9-3	6-11-0	6-11-0	6-11-0	6-11-0	4-10-5	2-0-11

Scale = 1:66.5



3-9-3	10-8-3	17-7-3	24-6-3	31-5-3	36-3-8	38-4-3
3-9-3	6-11-0	6-11-0	6-11-0	6-11-0	4-10-5	2-0-11

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-8], [9:Edge,0-2-0], [11:0-3-8,0-2-0], [12:0-6-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.67	12-13	>683	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.37	12-13	>333	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.22	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 227 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-12: 2x4 SP No.1, 12-14: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-11-7 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 14)
Max Grav 16=1871(LC 35), 9=1837(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6449/832, 3-4=-7925/1007, 4-5=-7388/947, 5-6=-7388/947, 6-7=-4714/619, 7-8=-1528/217, 8-9=-1817/241
BOT CHORD	15-16=-411/2859, 14-15=-411/2859, 13-14=-861/6449, 12-13=-1045/7948, 11-12=-621/4714, 10-11=-209/1526
WEBS	2-16=-3332/430, 2-14=-484/3774, 3-14=-1024/236, 3-13=-201/1552, 4-13=-348/144, 4-12=-590/86, 5-12=-540/170, 6-12=-360/2811, 6-11=-1352/265, 7-11=-454/3515, 7-10=-1728/273, 8-10=-299/2335

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

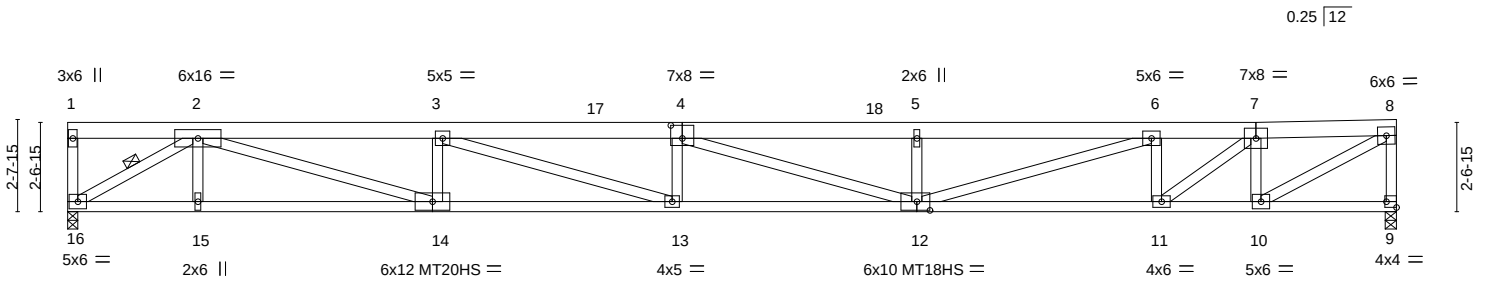
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T62	Roof Special	1	1	I51652940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:14 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-q4ndNSe2pXTlhDQCukk7GCV8QW?ovmjSjnBqXlzM7bN

3-9-1	10-8-1	17-7-1	24-6-1	31-5-1	34-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	6-11-0	2-10-7	4-0-11

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	24-6-1	31-5-1	34-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	6-11-0	2-10-7	4-0-11

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [9:Edge,0-2-0], [12:0-4-8,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.68	12-13	>672	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.40	12-13	>326	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.22	9	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 226 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-12: 2x4 SP No.1, 12-14: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-10-7 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 14)
Max Grav 16=1866(LC 35), 9=1824(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6537/845, 3-4=-8028/1025, 4-5=-7461/963, 5-6=-7461/963, 6-7=-4769/632, 7-8=-2898/394, 8-9=-1767/259
BOT CHORD	15-16=-418/2896, 14-15=-418/2896, 13-14=-876/6537, 12-13=-1064/8051, 11-12=-635/4769, 10-11=-390/2896
WEBS	2-16=-3361/435, 2-14=-492/3820, 3-14=-1019/236, 3-13=-204/1565, 4-13=-344/144, 4-12=-620/87, 5-12=-533/170, 6-12=-364/2849, 6-11=-1340/250, 7-11=-309/2409, 7-10=-1638/255, 8-10=-432/3298

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

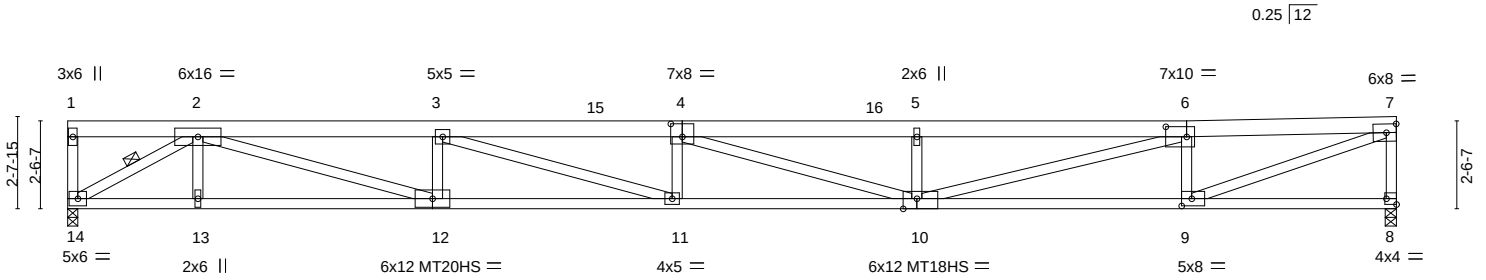
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T63	Roof Special	1	1	I51652941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:16 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-mTvNo8gIK8jTwWab?9nbLdaQdKhYNg3lA5gxbezM7bL

3-9-1	10-8-1	17-7-1	24-6-1	32-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	7-9-7	6-0-11

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	24-6-1	32-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	7-9-7	6-0-11

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [6:0-7-4,0-3-8], [7:0-3-7,0-3-0], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [10:0-4-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.72	10-11	>636	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-1.49	10-11	>306	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.22	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 222 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-10: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-11-15 oc bracing.
WEBS	1 Row at midpt 2-14

REACTIONS. (size) 14=0-3-8, 8=0-3-14
Max Horz 14=49(LC 14)
Max Grav 14=1856(LC 35), 8=1811(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6616/861, 3-4=-8103/1041, 4-5=-7586/988, 5-6=-7586/988, 6-7=-4329/568, 7-8=-1754/266
BOT CHORD	13-14=-426/2935, 12-13=-426/2935, 11-12=-892/6616, 10-11=-1082/8126, 9-10=-567/4323
WEBS	2-14=-3388/440, 2-12=-501/3856, 3-12=-1009/236, 3-11=-205/1576, 4-11=-341/142, 4-10=-615/79, 5-10=-598/188, 6-10=-456/3490, 6-9=-1502/302, 7-9=-586/4564

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

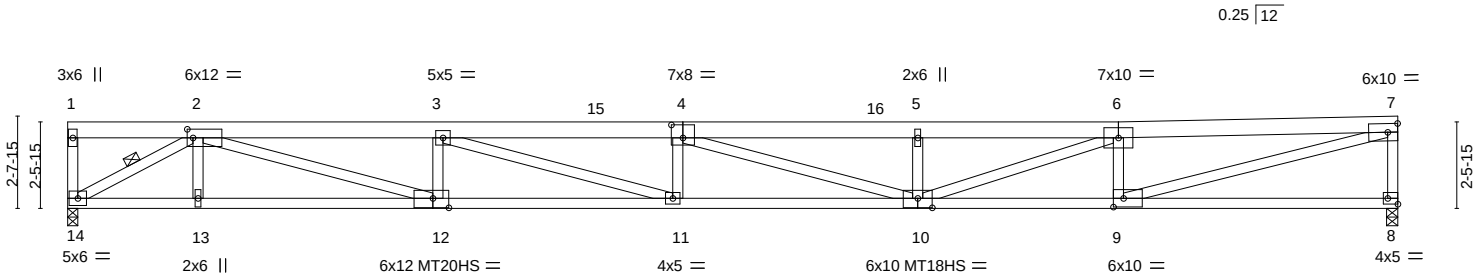
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T64	Roof Special	1	1	I51652942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:17 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-EfTm0Ugw5SrJYg9nZsIquq7e3k0c677vPlPV84zM7bK

3-9-1	10-8-1	17-7-1	24-6-1	30-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	5-9-7	8-0-11

Scale = 1:66.4



3-9-1	10-8-1	17-7-1	24-6-1	30-3-8	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	5-9-7	8-0-11

Plate Offsets (X,Y)-- [2:0-2-0,0-3-0], [4:0-4-0,0-4-8], [7:0-3-7,0-3-0], [8:Edge,0-2-0], [9:0-3-8,0-3-0], [10:0-5-0,0-3-4], [12:0-5-8,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.75	10-11	>610	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.57	10-11	>291	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.22	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 221 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-10: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-14

REACTIONS. (size) 14=0-3-8, 8=0-3-14
Max Horz 14=49(LC 12)
Max Grav 14=1844(LC 21), 8=1799(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6709/875, 3-4=-8247/1061, 4-5=-7655/1000, 5-6=-7655/1000, 6-7=-5439/713, 7-8=-1711/281
BOT CHORD	13-14=-434/2975, 12-13=-434/2975, 11-12=-909/6709, 10-11=-1104/8270, 9-10=-716/5434
WEBS	2-14=-3415/446, 2-12=-508/3905, 3-12=-1004/234, 3-11=-210/1609, 4-11=-339/149, 4-10=-726/88, 5-10=-515/152, 6-10=-324/2497, 6-9=-1402/294, 7-9=-719/5520

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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Chesterfield, MO 63017

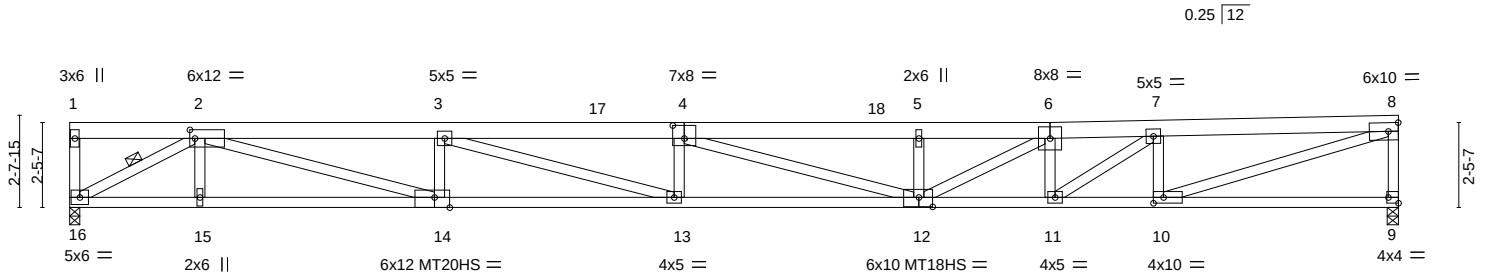
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T65	Roof Special	1	1	I51652943
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-A2bWQ9iBd361n_J9gHKIzFCzRXiqa0QBs3ubCzzM7bI

3-9-1	10-8-1	17-7-1	24-6-1	28-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	3-9-7	3-1-9	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	24-6-1	28-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	3-9-7	3-1-9	6-11-2

Plate Offsets (X,Y)-- [2:0-1-12,0-3-0], [4:0-4-0,0-4-8], [8:0-3-7,0-3-0], [9:Edge,0-2-0], [10:0-3-8,0-2-0], [12:0-4-12,0-3-4], [14:0-5-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.73	12-13	>624	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-1.54	12-13	>297	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.22	9	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP 2400F 2.0E *Except*
	14-16: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 14)
Max Grav 16=1841(LC 21), 9=1788(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6822/891, 3-4=-8380/1083, 4-5=-7762/1015, 5-6=-7762/1015, 6-7=-6356/844, 7-8=-4714/641, 8-9=-1706/273
BOT CHORD	15-16=-443/3029, 14-15=-443/3029, 13-14=-926/6822, 12-13=-1126/8404, 11-12=-855/6354, 10-11=-642/4709
WEBS	2-16=-3458/452, 2-14=-516/3961, 3-14=-1000/234, 3-13=-215/1627, 4-13=-336/147, 4-12=-804/95, 5-12=-458/144, 6-12=-206/1705, 6-11=-1108/158, 7-11=-257/2033, 7-10=-1456/294, 8-10=-655/4861

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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Chesterfield, MO 63017

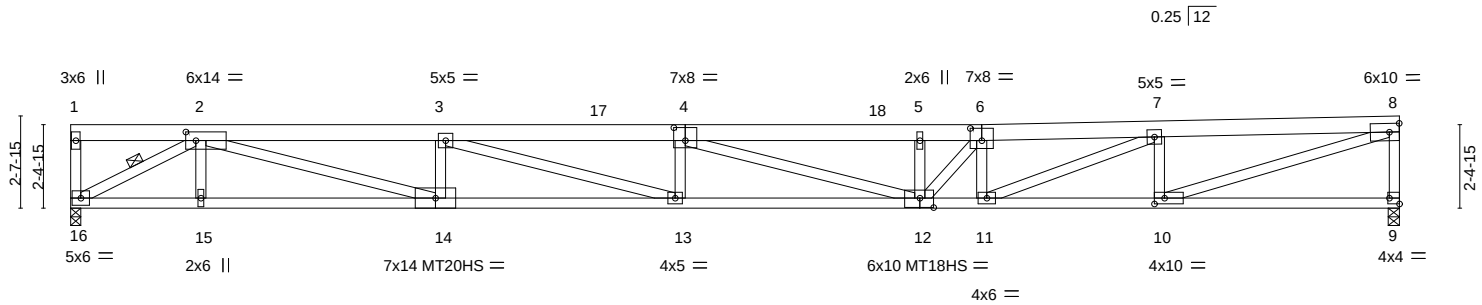
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T66	Roof Special	1	1	I51652944
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:21 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-6QiGrrjR9gMl0HSYoiMm2gIJZLN32wiUKNNiHrzM7bG

3-9-1	10-8-1	17-7-1	24-6-1	26-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	1-9-7	5-1-9	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	24-6-1	26-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-11-0	1-9-7	5-1-9	6-11-2

Plate Offsets (X,Y)-- [2:0-3-8,0-3-0], [4:0-4-0,0-4-8], [6:0-4-0,0-4-4], [8:0-3-7,0-3-0], [9:Edge,0-2-0], [10:0-3-8,0-2-0], [12:0-4-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.76	12-13	>603	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-1.60	12-13	>286	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.22	9	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP 2400F 2.0E *Except*
	14-16: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-9-4 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 14)
Max Grav 16=1837(LC 21), 9=1778(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-6937/908, 3-4=-8507/1103, 4-5=-7886/1036, 5-6=-7886/1036, 6-7=-7203/955, 7-8=-4734/649, 8-9=-1701/273
BOT CHORD	15-16=-452/3083, 14-15=-452/3083, 13-14=-944/6937, 12-13=-1148/8531, 11-12=-969/7200, 10-11=-649/4728
WEBS	2-16=-3501/459, 2-14=-525/4017, 3-14=-995/234, 3-13=-218/1637, 4-13=-332/148, 4-12=-862/94, 5-12=-478/138, 6-12=-134/1148, 6-11=-1020/151, 7-11=-347/2678, 7-10=-1436/299, 8-10=-663/4889

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

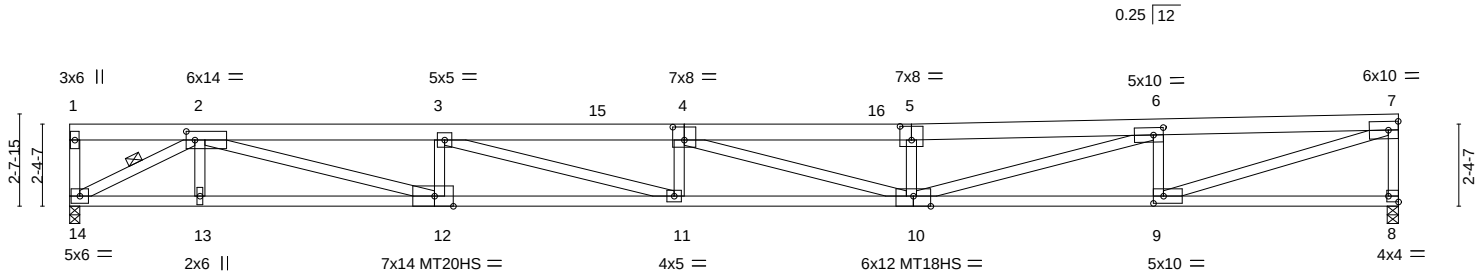
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T67	Roof Special	1	1	I51652945
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-bdGe3Bk3w_UceR1kMQu?buqTglj3nNkeY17GpIzM7bF

3-9-1	10-8-1	17-7-1	24-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-8-7	7-1-9	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	24-3-8	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	6-8-7	7-1-9	6-11-2

Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [4:0-4-0,0-4-8], [5:0-4-0,0-4-12], [6:0-3-7,0-2-9], [7:0-3-7,0-3-0], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [10:0-6-0,Edge], [12:0-6-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.80	10-11	>571	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-1.69	10-11	>270	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.23	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 8-10: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 7-9: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-14

REACTIONS. (size) 14=0-3-8, 8=0-3-14
Max Horz 14=49(LC 14)
Max Grav 14=1832(LC 21), 8=1768(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-7051/924, 3-4=-8639/1128, 4-5=-7995/1048, 5-6=-7983/1047, 6-7=-4761/660, 7-8=-1698/273
BOT CHORD	13-14=-461/3138, 12-13=-461/3138, 11-12=-962/7051, 10-11=-1173/8663, 9-10=-660/4755
WEBS	2-14=-3545/466, 2-12=-534/4072, 3-12=-988/234, 3-11=-224/1653, 4-11=-329/144, 4-10=-984/107, 5-10=-637/173, 6-10=-424/3367, 6-9=-1431/308, 7-9=-676/4927

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

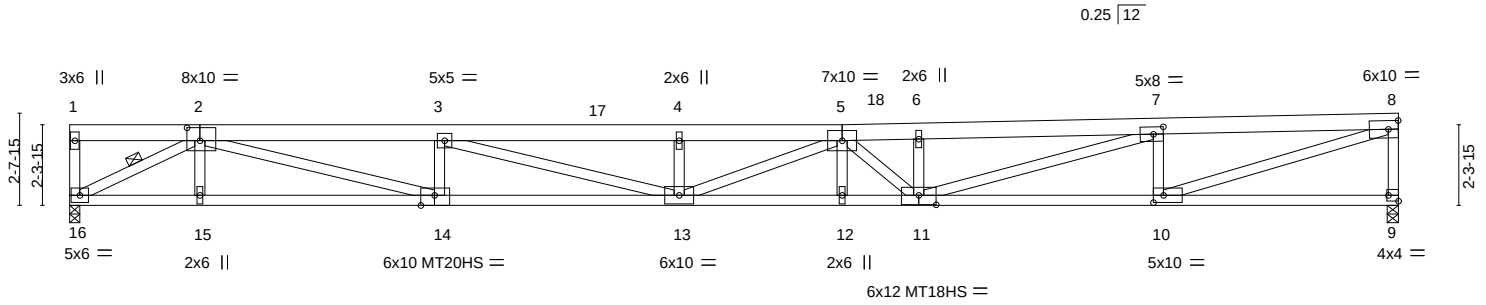
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T68	Roof Special	1	1	I51652946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:24 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-X?OPUtmJSbkKulB7TqwTgJwqaYOKFK8x0LcMtAzM7bD

3-9-1	10-8-1	17-7-1	22-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	4-8-7	2-2-9	6-11-0	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	22-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	4-8-7	2-2-9	6-11-0	6-11-2

Plate Offsets (X,Y)-- [2:0-4-8,0-4-8], [7:0-3-7,0-2-8], [8:0-3-7,0-3-0], [9:Edge,0-2-0], [10:0-3-8,0-2-8], [11:0-6-0,0-3-4], [14:0-4-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.80	12-13	>574	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-1.69	12-13	>270	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.23	9	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 223 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1, 11-14: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 2-14,8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 12)
Max Grav 16=1826(LC 21), 9=1759(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-7178/944, 3-4=-8764/1150, 4-5=-8764/1150, 5-6=-7806/1042, 6-7=-7808/1047, 7-8=-4739/658, 8-9=-1690/273
BOT CHORD	15-16=-468/3179, 14-15=-468/3179, 13-14=-983/7178, 12-13=-1146/8440, 11-12=-1146/8440, 10-11=-658/4733
WEBS	2-16=-3571/471, 2-14=-547/4154, 3-14=-987/236, 3-13=-226/1648, 4-13=-469/150, 5-13=-129/605, 5-11=-973/109, 6-11=-366/119, 7-11=-425/3214, 7-10=-1420/308, 8-10=-673/4905

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

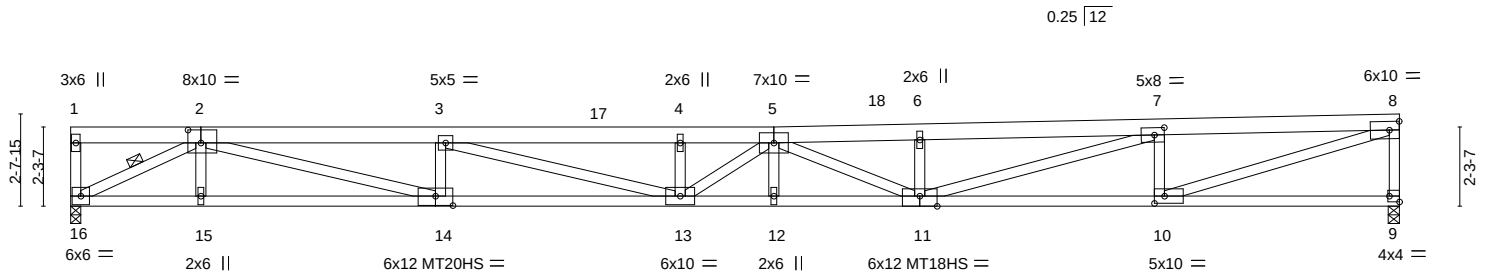
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T69	Roof Special	1	1	I51652947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:25 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-?BynhDmxDvsBVvmJ1YRiDWS_6ykL_mU4E?LwQdzM7bC

3-9-1	10-8-1	17-7-1	20-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	2-8-7	4-2-9	6-11-0	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	17-7-1	20-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	6-11-0	2-8-7	4-2-9	6-11-0	6-11-2

Plate Offsets (X,Y)-- [2:0-4-8,0-4-8], [7:0-3-7,0-2-8], [8:0-3-7,0-3-0], [9:Edge,0-2-0], [10:0-3-8,0-2-8], [11:0-6-0,Edge], [14:0-6-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.81	12-13	>562	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.73	12-13	>263	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.23	9	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 222 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1, 11-14: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 2-14,8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-16

REACTIONS. (size) 16=0-3-8, 9=0-3-14
Max Horz 16=49(LC 12)
Max Grav 16=1820(LC 21), 9=1751(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-7297/963, 3-4=-8875/1172, 4-5=-8875/1172, 5-6=-7785/1047, 6-7=-7787/1052, 7-8=-4707/657, 8-9=-1681/273
BOT CHORD	15-16=-478/3235, 14-15=-478/3235, 13-14=-1004/7297, 12-13=-1197/8763, 11-12=-1197/8763, 10-11=-657/4700
WEBS	2-16=-3614/478, 2-14=-558/4214, 3-14=-979/237, 3-13=-227/1667, 4-13=-422/132, 5-13=-239/371, 5-11=-1202/140, 6-11=-438/141, 7-11=-432/3226, 7-10=-1412/307, 8-10=-672/4870

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

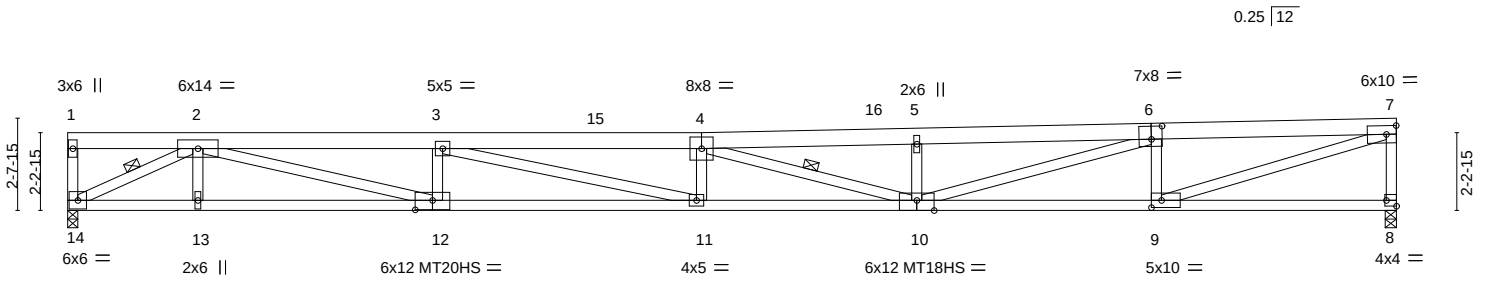
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T70	Roof Special	1	1	I51652948
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-uzBIXaqSG8Mc_W44GOWeNMdi8Z6Mwacg9cJ7ZOzM7b8

3-9-1	10-8-1	18-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	7-7-7	6-2-9	6-11-0	6-11-2

Scale = 1:66.5



3-9-1	10-8-1	18-3-8	24-6-1	31-5-1	38-4-3
3-9-1	6-11-0	7-7-7	6-2-9	6-11-0	6-11-2

Plate Offsets (X,Y)-- [6:0-3-12,0-4-8], [7:0-3-7,0-3-0], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [10:0-6-0,Edge], [12:0-6-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.79	11	>580	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.70	11	>269	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.23	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 219 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1 *Except* 1-4: 2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2 *Except* 8-10: 2x4 SP No.1, 10-12: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 2-12,7-9: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-14, 4-10

REACTIONS. (size) 14=0-3-8, 8=0-3-14
Max Horz 14=49(LC 14)
Max Grav 14=1813(LC 21), 8=1744(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-7430/988, 3-4=-9042/1192, 4-5=-7779/1056, 5-6=-7779/1061, 6-7=-4656/649, 7-8=-1673/273
BOT CHORD	13-14=-484/3273, 12-13=-484/3273, 11-12=-1031/7430, 10-11=-1228/9042, 9-10=-670/4748
WEBS	2-14=-3633/482, 2-12=-577/4307, 3-12=-970/243, 3-11=-219/1971, 4-11=-342/137, 4-10=-1480/157, 5-10=-512/157, 6-10=-427/3173, 6-9=-1401/305, 7-9=-663/4813

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-2-7, Corner(3) 23-2-7 to 38-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

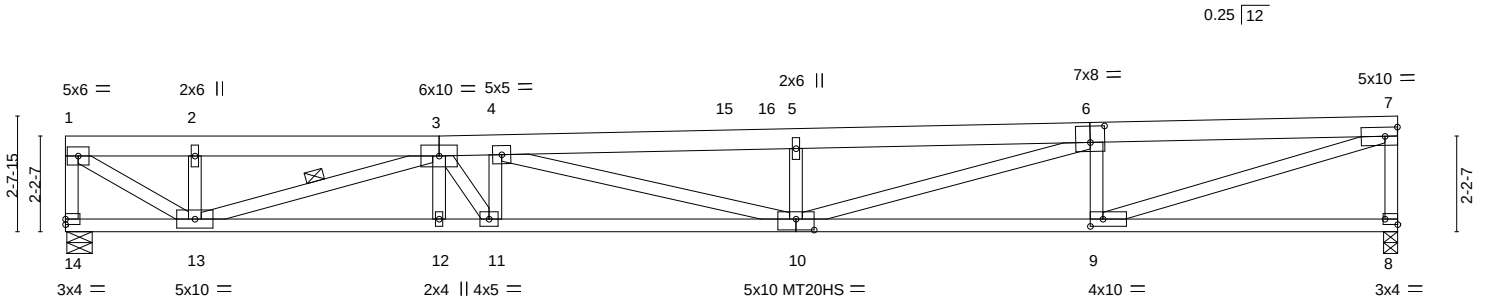
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T71	Roof Special	1	1	I51652949
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-M9lgkwq41RUTcgeHq51twaAxzzSrf?xpOG3h5qzM7b7

2-11-12	8-7-3	9-10-11	16-9-11	23-8-11	30-7-13
2-11-12	5-7-7	1-3-9	6-11-0	6-11-0	6-11-2

Scale = 1:53.0



0-0-6	2-11-12	8-7-3	9-10-11	16-9-11	23-8-11	30-7-13
0-0-6	2-11-5	5-7-7	1-3-9	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [6:0-4-0,0-4-8], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.36	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.82	10-11	>447	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.13	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-13

REACTIONS. (size) 14=0-7-0, 8=0-3-14
Max Horz 14=49(LC 14)
Max Grav 14=1412(LC 21), 8=1451(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1399/269, 1-2=-2132/411, 2-3=-2132/411, 3-4=-5018/943, 4-5=-5446/1004, 5-6=-5446/1010, 6-7=-3651/679, 7-8=-1381/297
BOT CHORD 12-13=-903/4584, 11-12=-903/4584, 10-11=-991/5018, 9-10=-704/3719
WEBS 1-13=-468/2507, 2-13=-444/164, 3-13=-2629/484, 3-11=-161/958, 4-11=-646/184, 4-10=-61/515, 5-10=-536/200, 6-10=-348/1829, 6-9=-1066/313, 7-9=-694/3752

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-6-1, Corner(3) 15-6-1 to 30-6-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

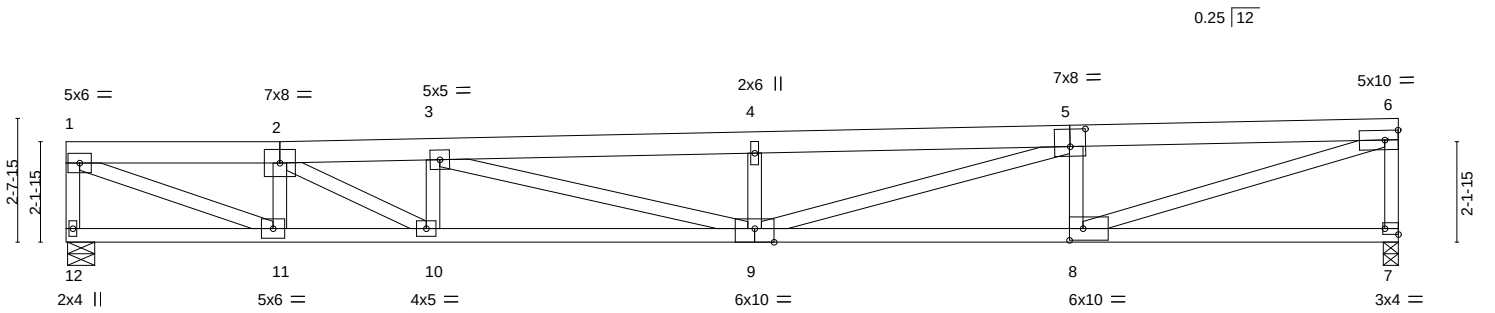
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T72	Roof Special	1	1	I51652950
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:31 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-qLJ2yGriolcKDqDTNpY6Sni6FNmIOT2ydwoEdGzM7b6

4-7-3	7-10-11	14-9-11	21-8-11	28-7-13
4-7-3	3-3-9	6-11-0	6-11-0	6-11-2

Scale = 1:49.6



0-0-6	4-7-3	7-10-11	14-9-11	21-8-11	28-7-13
0-0-6	4-6-12	3-3-9	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-1-8], [8:0-3-8,0-3-0], [9:0-5-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.30	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.64	9-10	>532	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 166 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	9-12: 2x4 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 12=0-7-0, 7=0-3-14
Max Horz 12=49(LC 12)
Max Grav 12=1301(LC 21), 7=1383(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1241/287, 1-2=-2723/557, 2-3=-4187/823, 3-4=-4985/964, 4-5=-4985/970, 5-6=-3436/677, 6-7=-1313/302
BOT CHORD	10-11=-608/2723, 9-10=-872/4185, 8-9=-701/3493
WEBS	1-11=-580/2861, 2-11=-1017/262, 2-10=-315/1663, 3-10=-678/214, 3-9=-147/821, 4-9=-539/211, 5-9=-312/1558, 5-8=-993/313, 6-8=-693/3529

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

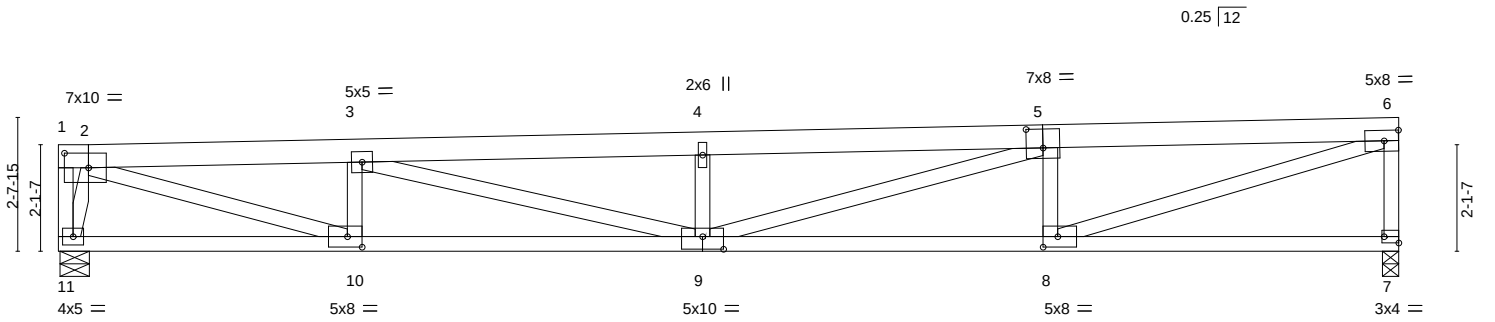
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T73	Roof Special	1	1	I51652951
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:32 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-IYtQ9csKZ3kBr_ofxW3L??FIVn7I7xN6raYn9jzM7b5

0-7-3 5-10-11 12-9-11 19-8-11 26-7-13
0-7-3 5-3-9 6-11-0 6-11-0 6-11-2

Scale = 1:45.8



0-0-6 5-10-11 12-9-11 19-8-11 26-7-13
0-0-6 5-10-5 6-11-0 6-11-0 6-11-2

Plate Offsets (X,Y)-- [1:0-5-12,0-3-8], [5:0-4-0,0-4-8], [6:0-3-7,0-2-8], [7:Edge,0-1-8], [8:0-3-8,0-2-8], [9:0-5-0,0-3-0], [10:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.25	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.52	8-9	>605	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=0-7-0, 7=0-3-14
Max Horz 11=49(LC 14)
Max Grav 11=1281(LC 36), 7=1297(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3244/671, 3-4=-4403/906, 4-5=-4403/913, 5-6=-3166/668, 6-7=-1228/303
BOT CHORD 10-11=-164/415, 9-10=-722/3239, 8-9=-695/3223
WEBS 2-11=-1432/367, 2-10=-606/2973, 3-10=-805/274, 3-9=-249/1199, 4-9=-540/219, 5-9=-261/1231, 5-8=-903/310, 6-8=-683/3246

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

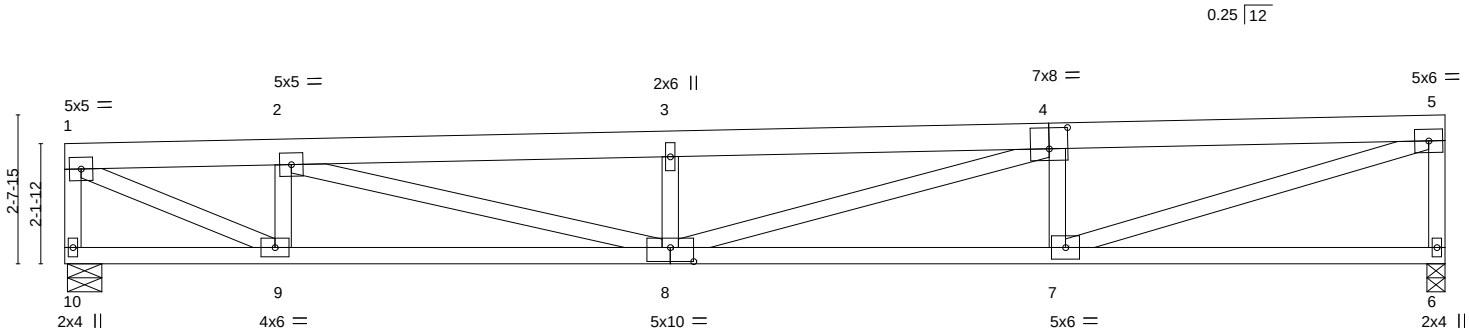
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T74	Monopitch	1	1	I51652952
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:33 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-mkRpMytzKMs2T7NsVDaaYCoTwBV3sPvF4EHLi9zM7b4

3-10-13	10-9-13	17-8-13	24-7-15
3-10-13	6-11-0	6-11-0	6-11-2

Scale = 1:41.2



0-0-9	3-10-13	10-9-13	17-8-13	24-7-15
0-0-9	3-10-4	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.19	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.40	7-8	>724	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 142 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-0-14 oc bracing.

REACTIONS. (size) 10=0-7-6, 6=0-3-14
Max Horz 10=49(LC 12)
Max Grav 10=1192(LC 21), 6=1192(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1160/278, 1-2=-2173/495, 2-3=-3709/829, 3-4=-3708/835, 4-5=-2844/653, 5-6=-1123/304
BOT CHORD	8-9=-548/2171, 7-8=-681/2893
WEBS	1-9=-533/2360, 2-9=-897/302, 2-8=-356/1586, 3-8=-526/230, 4-8=-199/849, 4-7=-795/305, 5-7=-668/2910

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

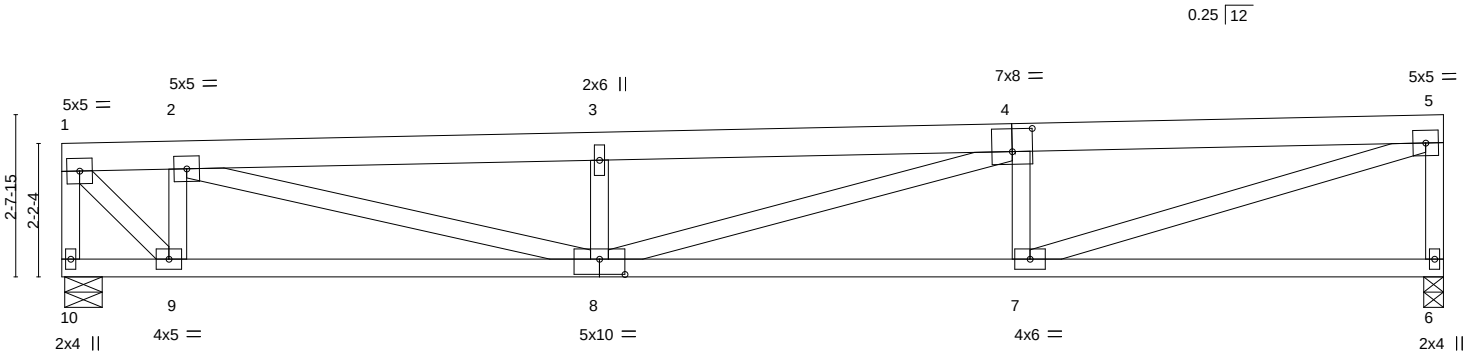
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T75	Monopitch	1	1	I51652953
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Ew?BaItb5g?v4Hy23x5p4QKeyasRbuQPJu1uEbzM7b3

1-10-13	8-9-13	15-8-13	22-7-15
1-10-13	6-11-0	6-11-0	6-11-2

Scale = 1:37.8



0-0-9 1-10-13	8-9-13	15-8-13	22-7-15
0-0-9 1-10-4	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.15	7-8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.32	7-8	>838	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 132 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS. (size) 10=0-7-6, 6=0-3-14
Max Horz 10=49(LC 12)
Max Grav 10=1089(LC 21), 6=1089(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1107/250, 1-2=-1143/292, 2-3=-3019/732, 3-4=-3018/738, 4-5=-2530/631, 5-6=-1021/302
BOT CHORD 8-9=-346/1145, 7-8=-662/2572
WEBS 1-9=-396/1629, 2-9=-1047/361, 2-8=-472/1932, 3-8=-504/238, 4-8=-123/462, 4-7=-688/298, 5-7=-647/2583

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

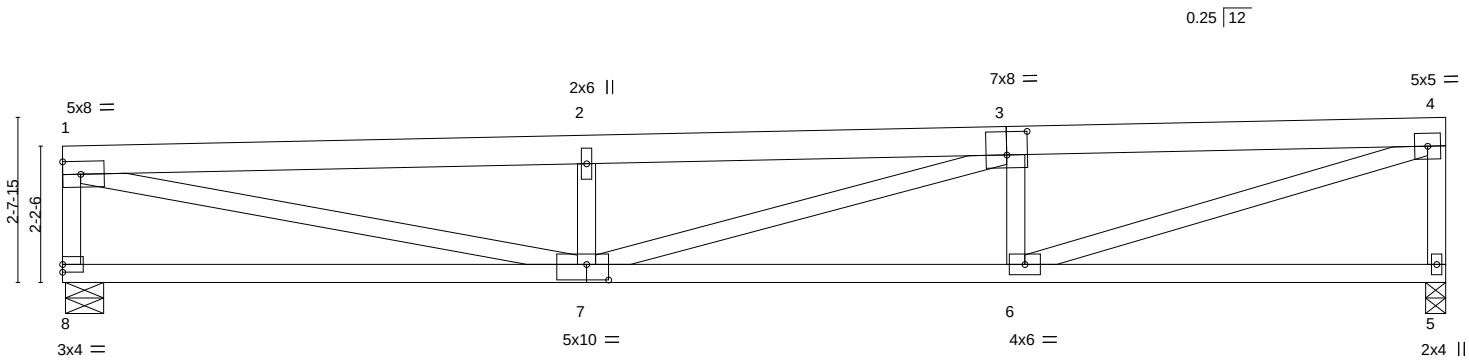
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T76	Monopitch	1	1	I51652954
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:35 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-i7ZZneuDs_7miRXEced2ddtmw_C4KGLYYYmSm2zM7b2

8-5-5 (8-5-5) | 15-4-5 (6-11-0) | 22-3-7 (6-11-2)

Scale = 1:37.1



0-0-9 | 8-5-5 (8-4-12) | 15-4-5 (6-11-0) | 22-3-7 (6-11-2)

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:0-4-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.17	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.34	6-7	>780	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 128 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-12 oc bracing.

REACTIONS. (size) 8=0-7-6, 5=0-3-14
Max Horz 8=49(LC 14)
Max Grav 8=1070(LC 21), 5=1070(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-985/308, 1-2=-2957/730, 2-3=-2957/738, 3-4=-2457/622, 4-5=-1002/303
BOT CHORD 6-7=-653/2498
WEBS 1-7=-726/2855, 2-7=-603/290, 3-7=-132/475, 3-6=-667/290, 4-6=-638/2505

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T78	Roof Special	3	1	I51652955
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-AJ6x?zvrdHFdKb6RAM8H9rQyzOYh3mzimCW?JUzM7b1

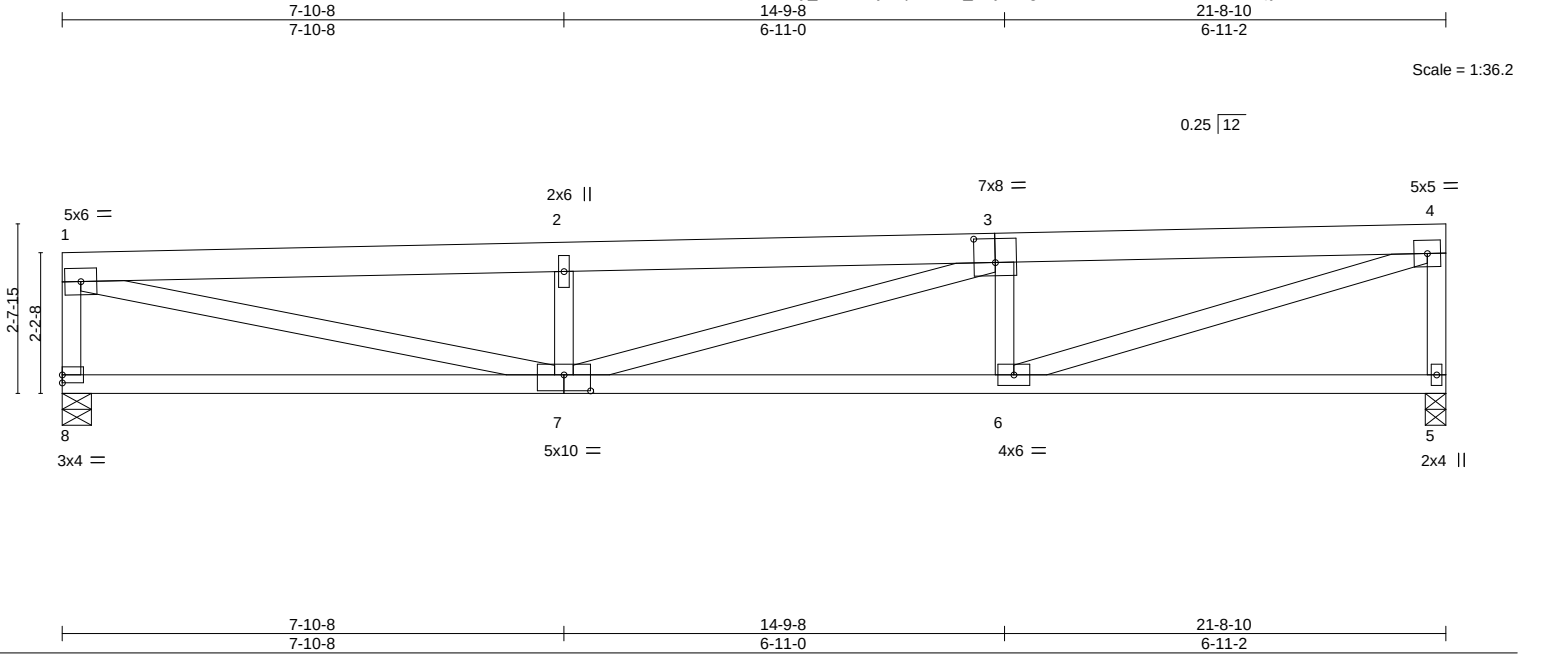

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.15	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.31	6-7	>833	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 125 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-14
Max Horz 8=49(LC 14)
Max Grav 8=1041(LC 21), 5=1041(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-962/304, 1-2=-2745/695, 2-3=-2745/702, 3-4=-2372/615, 4-5=-973/302
BOT CHORD 6-7=-647/2411
WEBS 1-7=-695/2674, 2-7=-575/281, 3-7=-102/344, 3-6=-637/289, 4-6=-631/2417

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

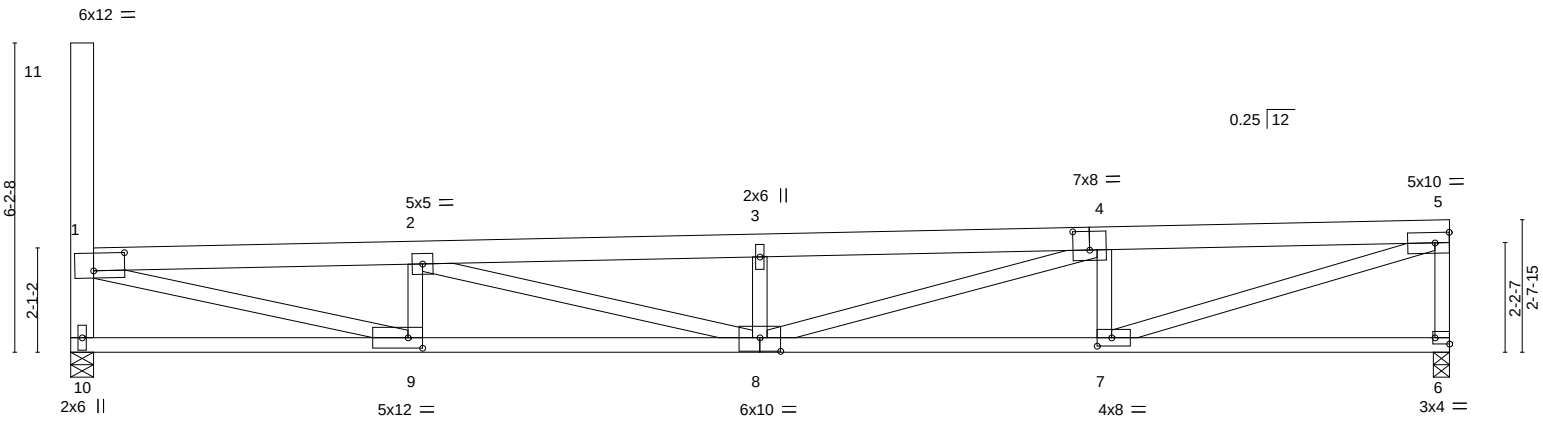
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T79	Roof Special	11	1	I51652956
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:37 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-fVgJCJwTObNUxlhdk3fWi2y6morZoAIr?sFYrwzM7b0

6-11-0	13-10-0	20-9-0	27-8-2
6-11-0	6-11-0	6-11-0	6-11-2

Scale = 1:46.3



6-11-0	13-10-0	20-9-0	27-8-2
6-11-0	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [1:0-7-8,0-4-4], [4:0-4-0,0-4-8], [5:0-3-7,0-2-8], [6:Edge,0-1-8], [7:0-3-8,0-2-0], [8:0-5-0,0-3-4], [9:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.32	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.64	8-9	>515	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 169 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-15 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=204(LC 12)
Max Grav 10=1589(LC 21), 6=1365(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1512/336, 1-2=-4026/1007, 2-3=-4859/1084, 3-4=-4859/1090, 4-5=-3402/726, 5-6=-1295/325
BOT CHORD 9-10=-459/526, 8-9=-1058/4015, 7-8=-758/3395
WEBS 1-9=-851/3847, 2-9=-834/301, 2-8=-364/917, 3-8=-532/216, 4-8=-388/1526, 4-7=-981/339, 5-7=-773/3494

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=-9, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=-3, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=-9, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=-3, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

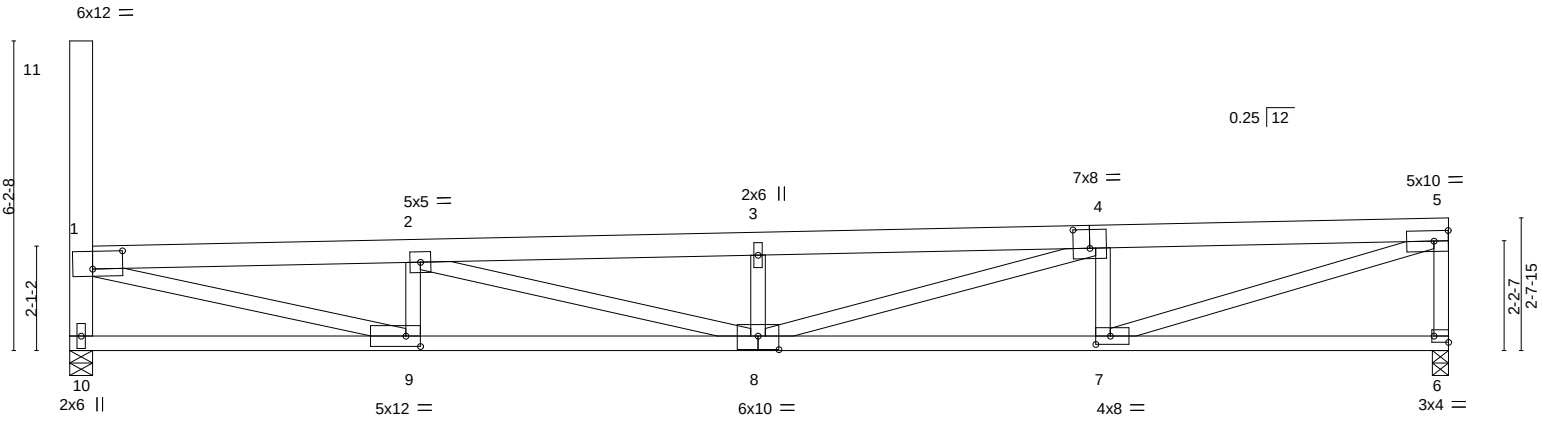
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T79A	ROOF SPECIAL	2	1	I51652957
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:38 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7iEiQfx59vVLZvGpInAlFGVHcCBqXdc_EW?6NMzM7b?

6-10-10	13-9-10	20-8-10	27-7-12
6-10-10	6-11-0	6-11-0	6-11-2

Scale = 1:46.2



6-10-10	13-9-10	20-8-10	27-7-12
6-10-10	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [1:0-7-4,0-4-4], [4:0-4-0,0-4-8], [5:0-3-7,0-2-8], [6:Edge,0-1-8], [7:0-3-8,0-2-0], [8:0-5-0,0-3-4], [9:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.32	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.63	8-9	>517	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=204(LC 12)
Max Grav 10=1587(LC 21), 6=1363(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1510/336, 1-2=-4010/1005, 2-3=-4850/1084, 3-4=-4850/1090, 4-5=-3398/726, 5-6=-1293/325
BOT CHORD 9-10=-459/526, 8-9=-1056/3999, 7-8=-758/3391
WEBS 1-9=-849/3834, 2-9=-835/301, 2-8=-366/924, 3-8=-532/217, 4-8=-388/1520, 4-7=-979/339, 5-7=-773/3490

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 4,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=-9, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-52

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=-3, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=-9, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-52

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=-3, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T80	Roof Special	4	1	I51652958
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101 — 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 4 07:12:35 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-phlK5NsGI0vyrEkU1skMDHSARZCvdHjYdJdjW6zJyLA

2-0-0	6-5-2	13-1-6	20-0-6	26-11-6	33-10-8
2-0-0	4-5-2	6-8-4	6-11-0	6-11-0	6-11-2

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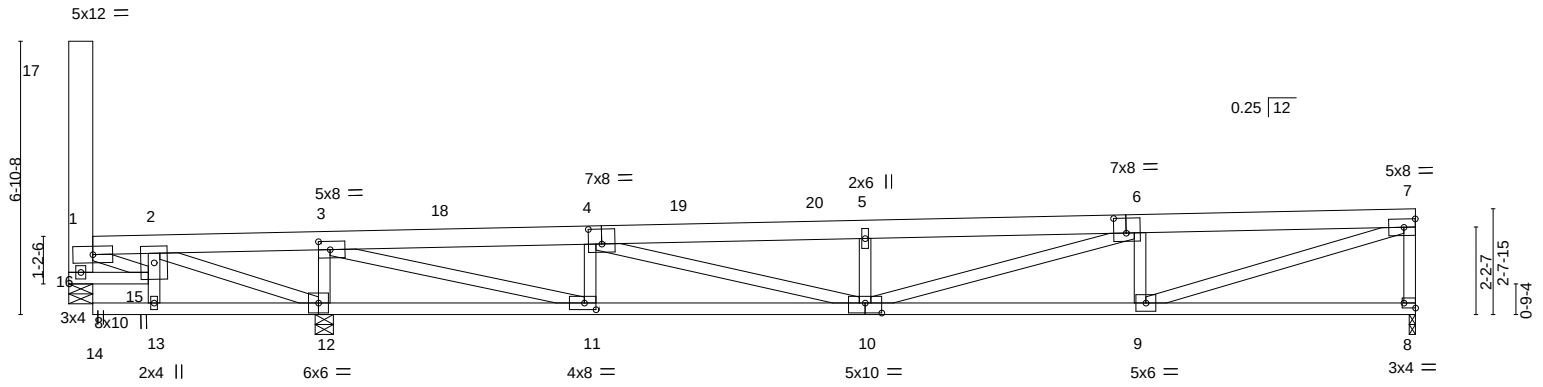

2-0-0	6-5-2	13-1-6	20-0-6	26-11-6	33-10-8
2-0-0	4-5-2	6-8-4	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [3:0-3-8,0-2-8], [4:0-4-0,0-4-8], [6:0-3-12,0-4-8], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [10:0-5-0,0-3-0], [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.25	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.52	10-11	>634	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 211 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 16-17: 2x8 SP 2400F 2.0E, 3-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-6 oc bracing.

REACTIONS. (size) 16=0-7-4, 8=0-1-14, 12=0-5-8
Max Horz 12=229(LC 14)
Max Uplift 16=-313(LC 28)
Max Grav 16=113(LC 12), 8=1210(LC 21), 12=2652(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-189/326, 1-2=-694/834, 2-3=-308/1961, 3-18=-2152/374, 4-18=-2144/375, 4-19=-3772/599, 19-20=-3766/599, 5-20=-3762/600, 5-6=-3772/606, 6-7=-2904/475, 7-8=-1142/220
BOT CHORD	12-13=-363/215, 11-12=-1953/275, 10-11=-341/2144, 9-10=-454/2897, 15-16=-544/722
WEBS	3-12=-1868/360, 3-11=-636/4230, 4-11=-931/245, 4-10=-250/1678, 5-10=-561/184, 6-10=-143/909, 6-9=-813/239, 7-9=-467/2974, 2-15=-131/369, 1-15=-720/438, 2-12=-1790/585

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-12, Corner(3) 18-8-12 to 33-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Bearings are assumed to be: Joint 12 SYP No.2 crushing capacity of 565 psi, Joint 8 SYP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 16.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-70, 8-14=-20, 15-16=-20

May 4,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-18=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-60, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-180-to-3=-80, 3=-79-to-18=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-67, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-187-to-3=-87, 3=-86-to-18=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-39, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-3=-59, 3=-58-to-18=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-79, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-18=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-42, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-18=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-51, 8-14=-20, 15-16=-20
Horz: 1-16=13, 1-17=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-171-to-3=-71, 3=-70-to-18=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-57, 8-14=-20, 15-16=-20
Horz: 1-16=-3, 1-17=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-177-to-3=-77, 3=-76-to-18=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-51, 8-14=-20, 15-16=-20
Horz: 1-16=10, 1-17=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-171-to-3=-71, 3=-70-to-18=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-57, 8-14=-20, 15-16=-20
Horz: 1-16=-2, 1-17=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-177-to-3=-77, 3=-76-to-18=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-70, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-18=-70

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T81	Jack-Closed	2	1	I51652959
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101 — 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 4 07:12:45 2022 Page 1
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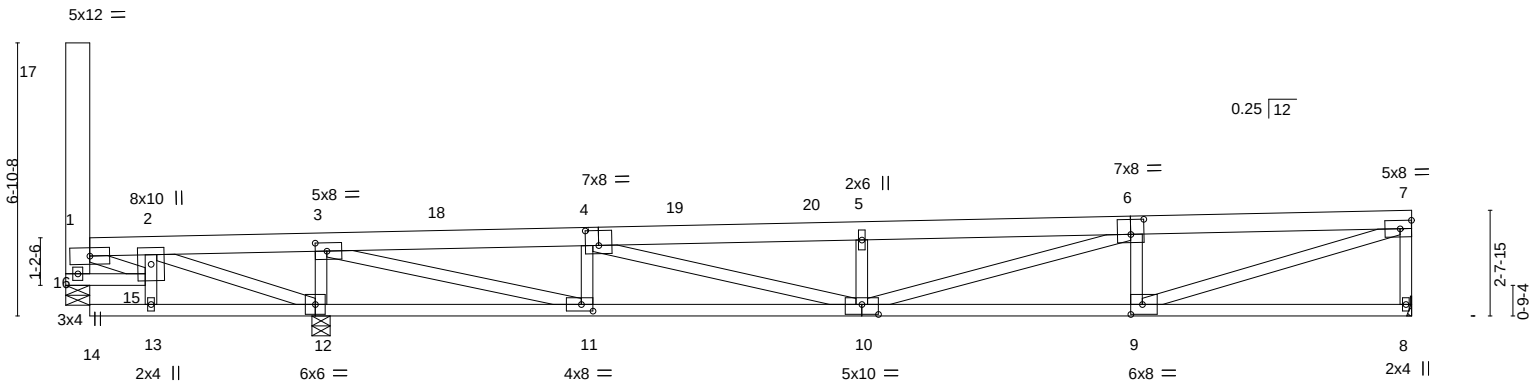
2-0-0	6-5-2	13-1-8	20-0-8	26-11-8	33-10-10
2-0-0	4-5-2	6-8-6	6-11-0	6-11-0	6-11-2

Scale = 1:58.0



2-0-0	6-5-2	13-1-8	20-0-8	26-11-8	33-10-10
2-0-0	4-5-2	6-8-6	6-11-0	6-11-0	6-11-2

Plate Offsets (X,Y)-- [3:0-3-8,0-2-8], [4:0-4-0,0-4-8], [6:0-4-0,0-4-8], [7:0-3-7,0-2-8], [9:0-3-8,0-3-0], [10:0-5-0,0-3-0], [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.25	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.52	10-11	>631	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 211 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
16-17: 2x8 SP 2400F 2.0E, 3-11: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-5 oc bracing.

REACTIONS. (size) 16=0-7-4, 12=0-5-8, 8=Mechanical
Max Horz 12=202(LC 12)
Max Uplift 16=-312(LC 28)
Max Grav 16=110(LC 12), 12=2653(LC 21), 8=1211(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-185/325, 1-2=-702/839, 2-3=-295/1963, 3-18=-2159/352, 4-18=-2152/353, 4-19=-3764/573, 19-20=-3759/573, 5-20=-3755/574, 5-6=-3764/580, 6-7=-2905/444
BOT CHORD 12-13=-366/220, 11-12=-1955/270, 10-11=-372/2151, 9-10=-463/2956, 15-16=-541/721
WEBS 3-12=-1869/360, 3-11=-636/4239, 4-11=-931/245, 4-10=-246/1664, 5-10=-545/179, 6-10=-131/841, 6-9=-829/245, 7-9=-470/3058, 7-8=-1153/218, 2-15=-128/368, 2-12=-1792/574, 1-15=-719/432

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-14, Corner(3) 18-8-14 to 33-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearings are assumed to be: Joint 12 SYP No.2 crushing capacity of 565 psi, Joint 8 SYP No.2 crushing capacity of 565 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 16.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-70, 8-14=-20, 15-16=-20

May 4,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-18=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-60, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-180-to-3=-80, 3=-79-to-18=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-67, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-187-to-3=-87, 3=-86-to-18=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-39, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-3=-59, 3=-58-to-18=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-79, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-18=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-42, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-18=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-51, 8-14=-20, 15-16=-20
Horz: 1-16=13, 1-17=27, 1-7=-9
Trapezoidal Loads (plf)
Vert: 1=-171-to-3=-71, 3=-70-to-18=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-57, 8-14=-20, 15-16=-20
Horz: 1-16=-3, 1-17=-27, 1-7=-3
Trapezoidal Loads (plf)
Vert: 1=-177-to-3=-77, 3=-76-to-18=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-51, 8-14=-20, 15-16=-20
Horz: 1-16=10, 1-17=-18, 1-7=-9
Trapezoidal Loads (plf)
Vert: 1=-171-to-3=-71, 3=-70-to-18=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-18=-57, 8-14=-20, 15-16=-20
Horz: 1-16=-2, 1-17=-18, 1-7=-3
Trapezoidal Loads (plf)
Vert: 1=-177-to-3=-77, 3=-76-to-18=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-18=-70, 8-14=-20, 15-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-18=-70

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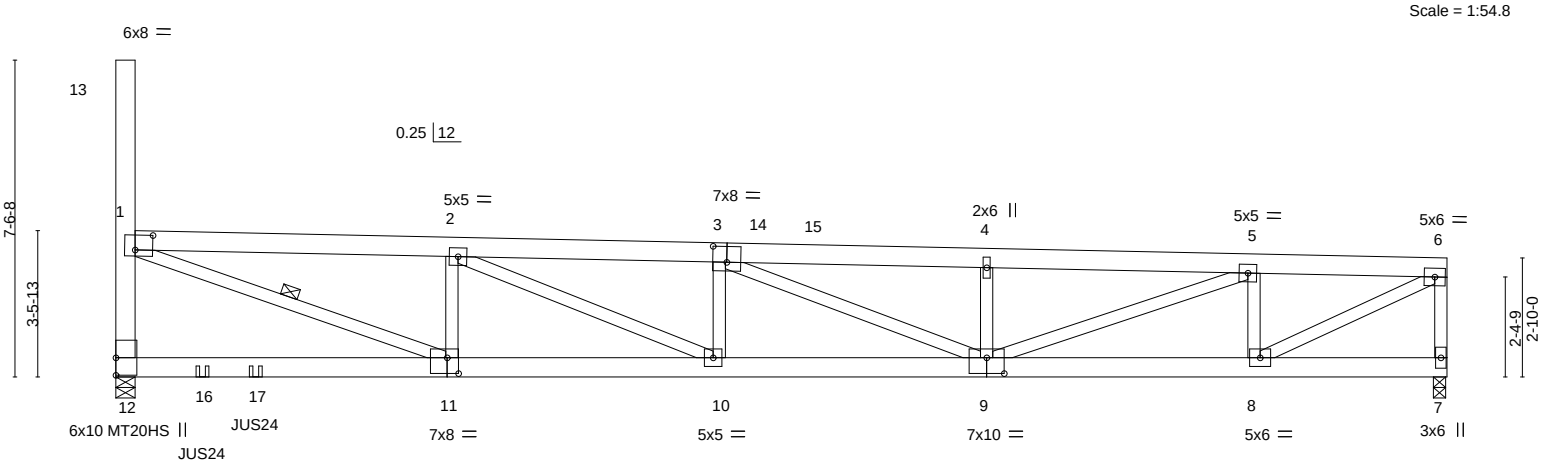
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T82	ROOF SPECIAL GIRDER	1	1	I51652960
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:42 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-?TUCF1_cD7?m2WZaXcFhP6fwApZ7SRHa98zJV8zM7ax

8-0-0	14-4-6	20-8-12	27-1-2	31-8-4
8-0-0	6-4-6	6-4-6	6-4-6	4-7-2

Scale = 1:54.8



8-0-0	14-4-6	20-8-12	27-1-2	31-7-14	31-8-4
8-0-0	6-4-6	6-4-6	6-4-6	4-6-12	0-0-6

Plate Offsets (X,Y)-- [1:0-5-0,0-4-4], [3:0-4-0,0-4-8], [9:0-5-0,0-4-8], [11:0-3-4,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	0.28	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.51	9-10	>740	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 227 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-1 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-218(LC 11)
Max Uplift 12=-749(LC 16), 7=-35(LC 12)
Max Grav 12=2151(LC 55), 7=1594(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1786/561, 1-2=-3625/1487, 2-3=-4707/1326, 3-4=-4464/1123, 4-5=-4464/1118, 5-6=-2559/576, 6-7=-1543/370
BOT CHORD	11-12=-482/625, 10-11=-1498/3662, 9-10=-1338/4702, 8-9=-604/2555
WEBS	1-11=-1212/3652, 2-11=-1149/478, 2-10=-655/1275, 3-10=-355/236, 3-9=-337/215, 4-9=-513/191, 5-9=-576/2040, 5-8=-1235/390, 6-8=-657/2850

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 749 lb uplift at joint 12 and 35 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-3-4 oc max. starting at 2-0-12 from the left end to 3-4-0 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(B) 17=-100(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(B) 17=-83(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(B) 17=-83(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(B) 17=-83(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(B) 17=-100(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(B) 17=-100(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=304(B) 17=304(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=304(B) 17=304(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=304(B) 17=304(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=304(B) 17=304(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-100(B) 17=-100(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-393(B) 17=-393(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-393(B) 17=-393(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-393(B) 17=-393(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-393(B) 17=-393(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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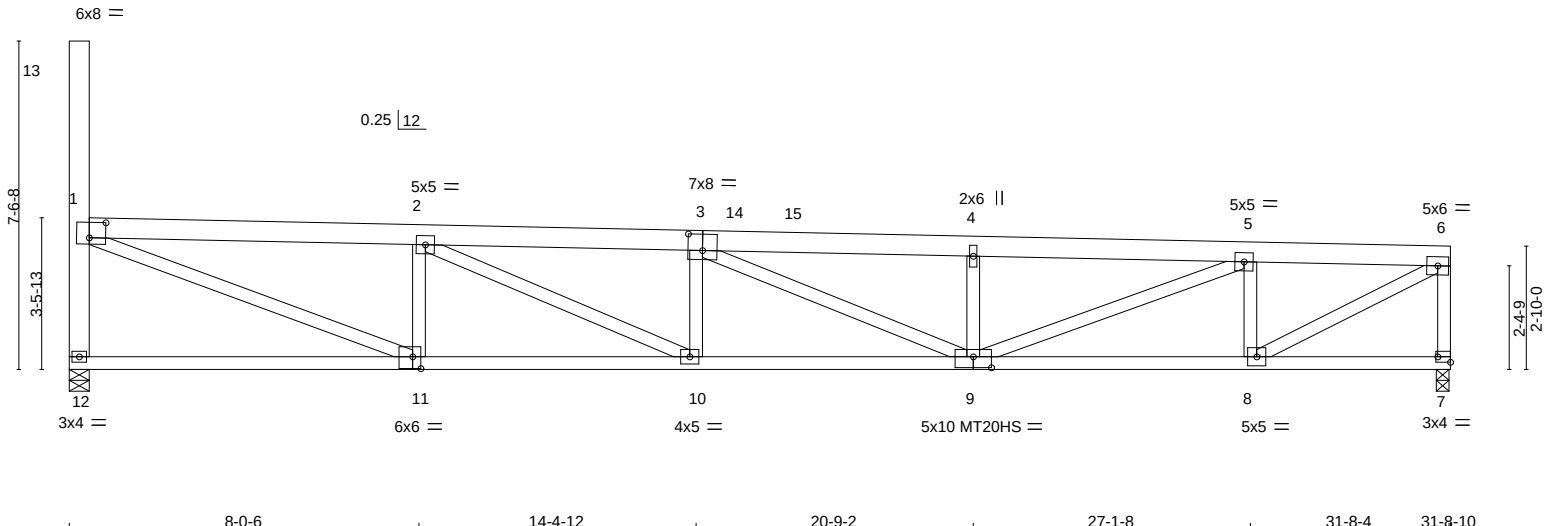
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T83	ROOF SPECIAL	2	1	I51652961
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:44 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-xrbzgi?sklFUHqjze1H9UXlGgcEtwLBtcSSQa0zM7av

8-0-6	14-4-12	20-9-2	27-1-8	31-8-10
8-0-6	6-4-6	6-4-6	6-4-6	4-7-2

Scale = 1:52.9



8-0-6	14-4-12	20-9-2	27-1-8	31-8-4	31-8-10
8-0-6	6-4-6	6-4-6	6-4-6	4-6-12	0-0-6

Plate Offsets (X,Y)-- [1:0-4-8,0-4-4], [3:0-4-0,0-4-8], [7:Edge,0-1-8], [9:0-5-0,0-3-0], [11:0-2-4,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.28	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.55	9-10	>682	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-2 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-220(LC 11)
Max Grav 12=1840(LC 22), 7=1579(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1759/346, 1-2=-3462/778, 2-3=-4486/891, 3-4=-4301/806, 4-5=-4301/801, 5-6=-2452/436, 6-7=-1538/304
BOT CHORD	11-12=-307/456, 10-11=-785/3453, 9-10=-911/4500, 8-9=-465/2449
WEBS	1-11=-621/3548, 2-11=-1171/323, 2-10=-308/1133, 3-10=-357/201, 4-9=-516/184, 5-9=-387/1989, 5-8=-1228/319, 6-8=-510/2762

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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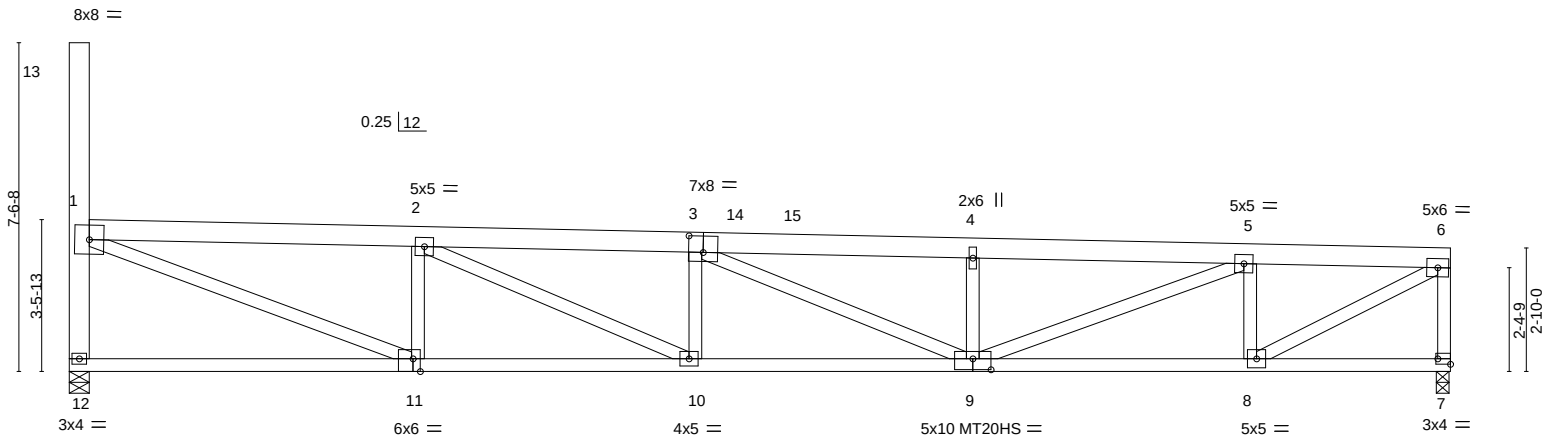
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T83A	ROOF SPECIAL	1	1	I51652962
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:45 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-Q29Lu20UV2NLvzI9CloO1kHRZ0aCfof0r6Bz6SzM7au

8-0-0	14-4-6	20-8-12	27-1-2	31-8-4
8-0-0	6-4-6	6-4-6	6-4-6	4-7-2

Scale = 1:52.9



8-0-0	14-4-6	20-8-12	27-1-2	31-7-14	31-8-4
8-0-0	6-4-6	6-4-6	6-4-6	4-6-12	0-0-6

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-1-8], [9:0-5-0,0-3-0], [11:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.27	10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.55	9-10	>689	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-5 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=-220(LC 11)
Max Grav 12=1838(LC 22), 7=1578(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1759/346, 1-2=-3399/767, 2-3=-4487/894, 3-4=-4298/807, 4-5=-4298/802, 5-6=-2448/436, 6-7=-1536/305
BOT CHORD	11-12=-308/455, 10-11=-785/3435, 9-10=-907/4482, 8-9=-465/2444
WEBS	1-11=-608/3492, 2-11=-1173/322, 2-10=-312/1154, 3-10=-363/204, 4-9=-526/188, 5-9=-389/1990, 5-8=-1225/319, 6-8=-510/2757

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-8, Corner(3) 16-6-8 to 31-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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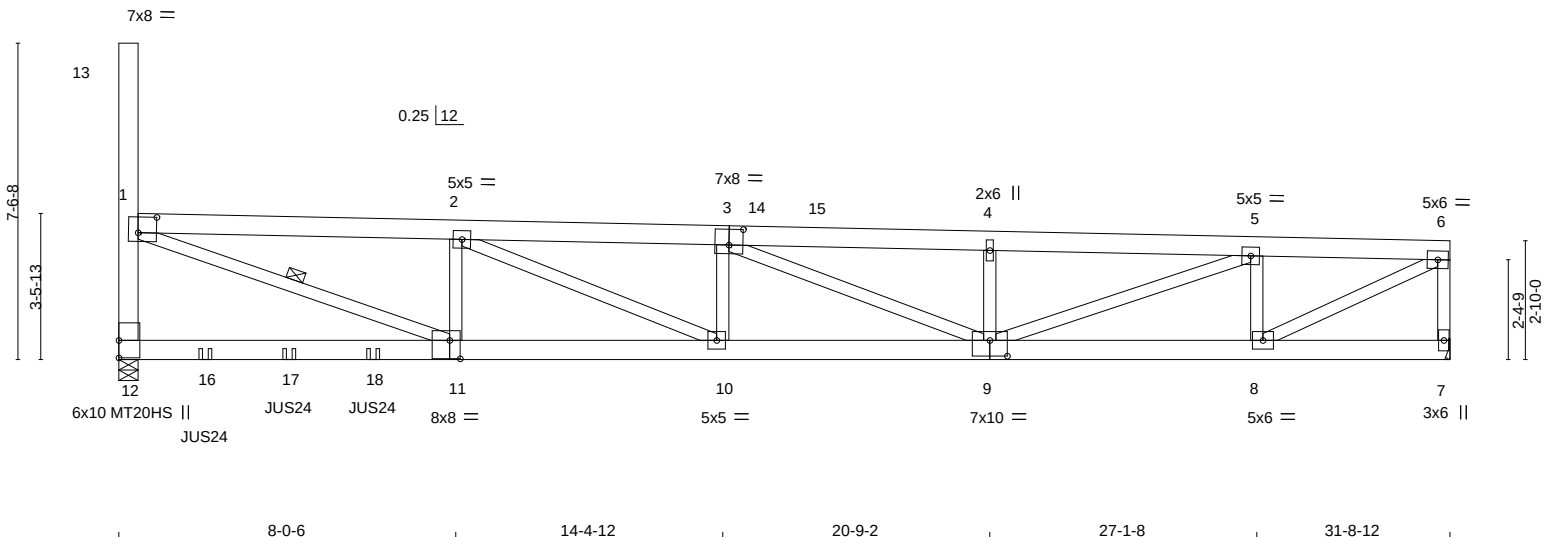
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T84	Roof Special Girder	1	1	I51652963
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-uEjj5O16GMVCW7tMmSJdZyqbnQv6OESA3mxXevzM7at

8-0-6	14-4-12	20-9-2	27-1-8	31-8-12
8-0-6	6-4-6	6-4-6	6-4-6	4-7-4

Scale = 1:54.9



8-0-6	14-4-12	20-9-2	27-1-8	31-8-12
8-0-6	6-4-6	6-4-6	6-4-6	4-7-4

Plate Offsets (X,Y)-- [1:0-5-4,0-4-8], [3:0-4-0,0-4-8], [9:0-5-0,0-4-8], [11:0-3-0,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.39	11-12	>962	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.53	9-10	>714	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 227 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
11-12: 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
WEBS 1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-65(LC 11)
Max Uplift 12=-1163(LC 16), 7=-111(LC 12)
Max Grav 12=2474(LC 51), 7=1615(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1843/834, 1-2=-4126/2184, 2-3=-4827/1774, 3-4=-4551/1440, 4-5=-4551/1435, 5-6=-2604/738, 6-7=-1564/444
BOT CHORD 11-12=-281/366, 10-11=-2190/4128, 9-10=-1789/4840, 8-9=-740/2600
WEBS 1-11=-2069/4041, 2-11=-1124/618, 2-10=-897/1470, 3-10=-354/262, 3-9=-480/365, 4-9=-502/192, 5-9=-766/2086, 5-8=-1255/465, 6-8=-809/2899

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1163 lb uplift at joint 12 and 111 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-83(F) 17=-78(F) 18=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-100(F) 17=-94(F) 18=-94(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=304(F) 17=324(F) 18=325(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=304(F) 17=324(F) 18=325(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=304(F) 17=324(F) 18=325(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=304(F) 17=324(F) 18=325(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-100(F) 17=-94(F) 18=-94(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-393(F) 17=-407(F) 18=-408(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-393(F) 17=-407(F) 18=-408(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-393(F) 17=-407(F) 18=-408(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-393(F) 17=-407(F) 18=-408(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

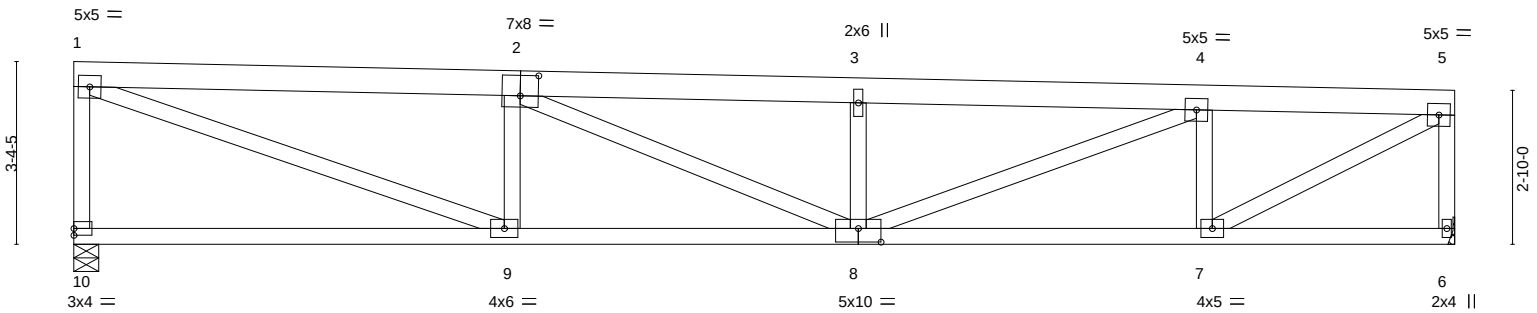
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T85	Roof Special	2	1	I51652964
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:47 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-MQH5Ik2l1gd38HSYJAqs69NrhqIr7kBJIQg4ALzM7as

8-0-12	14-5-2	20-9-8	25-4-12
8-0-12	6-4-6	6-4-6	4-7-4

Scale = 1:42.4



8-0-12	14-5-2	20-9-8	25-4-12
8-0-12	6-4-6	6-4-6	4-7-4

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.27	8-9	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-6-8 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-64(LC 11)
Max Grav 10=1229(LC 22), 6=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1151/314, 1-2=-2502/564, 2-3=-2904/637, 3-4=-2905/632, 4-5=-1858/420, 5-6=-1189/287
BOT CHORD	8-9=-591/2535, 7-8=-425/1855
WEBS	1-9=-591/2593, 2-9=-767/307, 2-8=-96/400, 3-8=-459/193, 4-8=-249/1125, 4-7=-897/298, 5-7=-463/2089

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

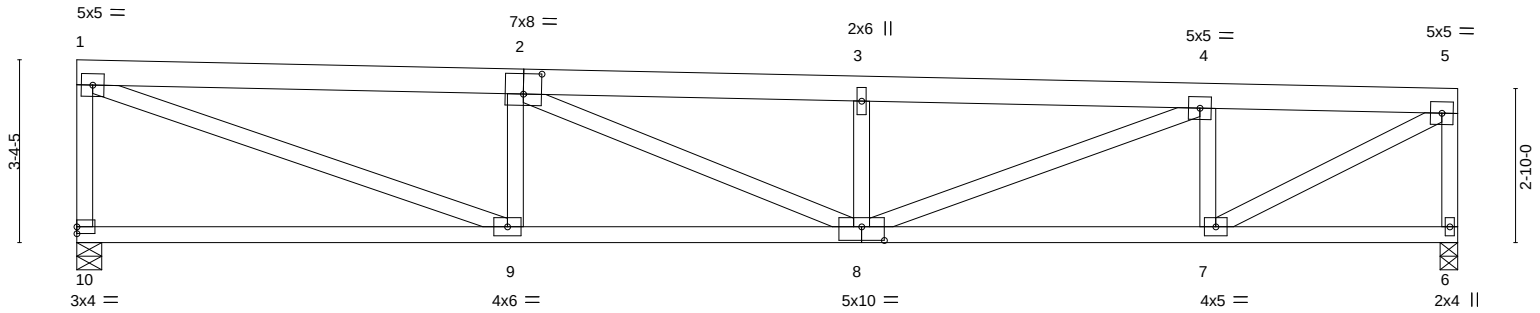
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T86	Roof Special	4	1	I51652965
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:48 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-qdrUW42NozlwmR1kttL5eNv0REe4sBQTX4QejnzM7ar

8-0-12	14-5-2	20-9-8	25-4-10
8-0-12	6-4-6	6-4-6	4-7-2

Scale = 1:42.4



8-0-12	14-5-2	20-9-8	25-4-10
8-0-12	6-4-6	6-4-6	4-7-2

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.27	8-9	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 153 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-6-8 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=-64(LC 11)
Max Grav 10=1229(LC 22), 6=1229(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1151/314, 1-2=-2500/564, 2-3=-2901/637, 3-4=-2902/631, 4-5=-1854/419, 5-6=-1189/287
BOT CHORD	8-9=-591/2534, 7-8=-424/1851
WEBS	1-9=-591/2592, 2-9=-767/307, 2-8=-96/398, 3-8=-459/193, 4-8=-250/1126, 4-7=-897/299, 5-7=-462/2085

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

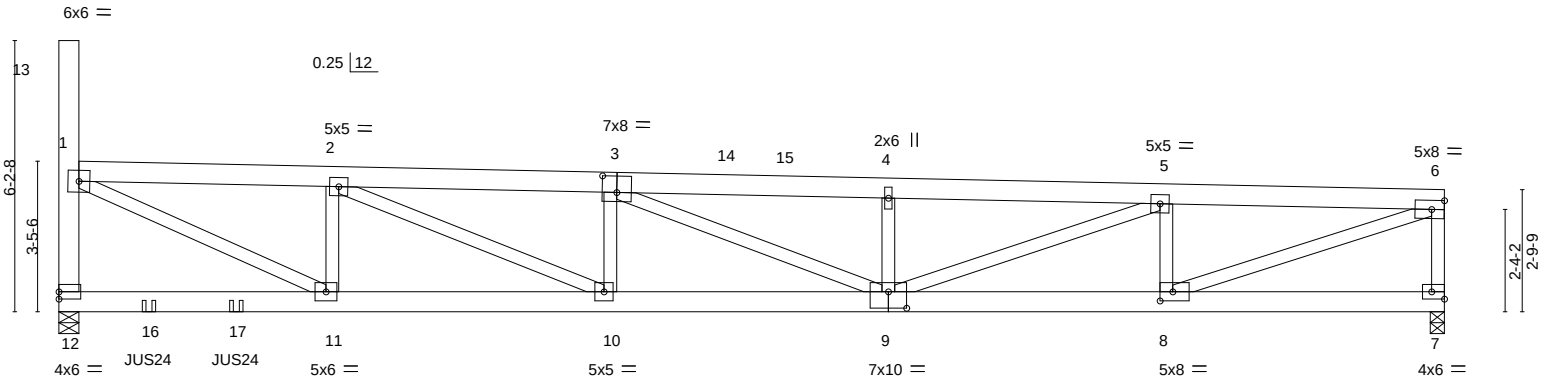
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T87	Roof Special Girder	1	1	I51652966
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-IpPsjQ3?ZHtnNbbwRbtKBaSBfd?Lbcucmk9BFEzM7aq

6-3-2	12-7-8	18-11-14	25-4-4	31-8-10
6-3-2	6-4-6	6-4-6	6-4-6	6-4-6

Scale = 1:52.7



6-3-2	12-7-8	18-11-14	25-4-4	31-8-10
6-3-2	6-4-6	6-4-6	6-4-6	6-4-6

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-2-0], [8:0-3-8,0-2-8], [9:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.26	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.51	9-10	>738	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-170(LC 11)
Max Uplift 12=-45(LC 16)
Max Grav 12=1925(LC 22), 7=1584(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1762/367, 1-2=-3026/739, 2-3=-4512/914, 3-4=-4702/893, 4-5=-4702/888, 5-6=-3292/594, 6-7=-1505/312
BOT CHORD 11-12=-228/337, 10-11=-743/3018, 9-10=-933/4536, 8-9=-621/3287
WEBS 1-11=-638/3211, 2-11=-1233/340, 2-10=-406/1631, 3-10=-558/228, 4-9=-487/174, 5-9=-308/1511, 5-8=-1099/313, 6-8=-632/3427

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 12.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 4,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-66(B) 17=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-66(B) 17=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-66(B) 17=-66(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-80(B) 17=-80(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=54(B) 17=53(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=54(B) 17=53(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=54(B) 17=53(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=54(B) 17=53(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-80(B) 17=-80(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-93(B) 17=-92(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-93(B) 17=-92(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-93(B) 17=-92(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-93(B) 17=-92(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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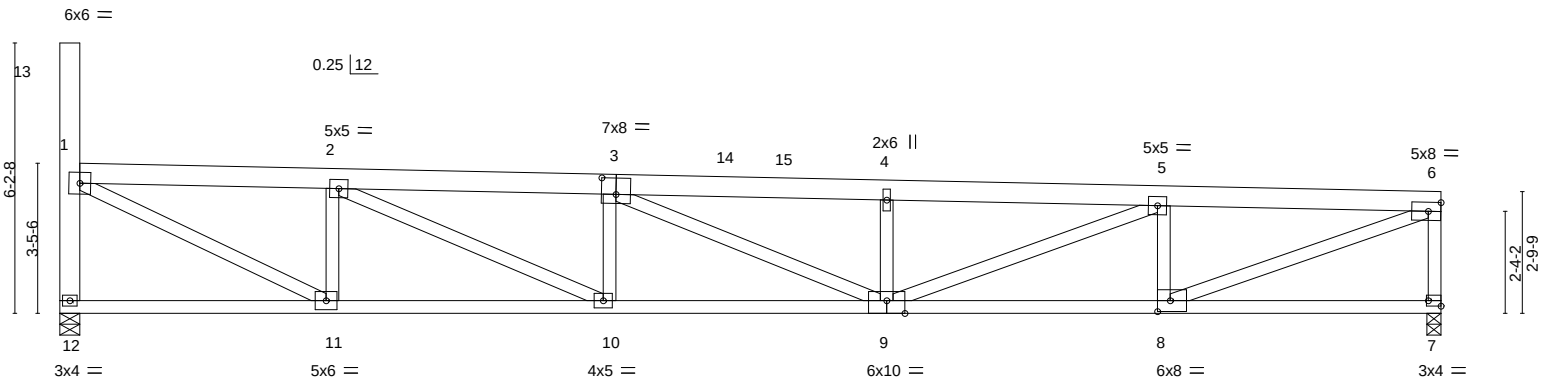
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T88	Roof Special	3	1	I51652967
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:50 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-m?zExm4dKb0e?lA7?lOZko?MX1GAK4Wl_OvkngzM7ap

6-3-2	12-7-8	18-11-14	25-4-4	31-8-10
6-3-2	6-4-6	6-4-6	6-4-6	6-4-6

Scale = 1:52.9



6-3-2	12-7-8	18-11-14	25-4-4	31-8-10
6-3-2	6-4-6	6-4-6	6-4-6	6-4-6

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-3-8,0-3-0], [9:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	9-10	>687	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-12: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-172(LC 11)
Max Grav 12=1779(LC 22), 7=1569(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1717/319, 1-2=-2815/611, 2-3=-4298/817, 3-4=-4521/817, 4-5=-4521/812, 5-6=-3168/552, 6-7=-1505/306
BOT CHORD	11-12=-204/318, 10-11=-616/2808, 9-10=-838/4323, 8-9=-579/3163
WEBS	1-11=-517/3041, 2-11=-1259/314, 2-10=-343/1636, 3-10=-564/221, 4-9=-500/175, 5-9=-275/1456, 5-8=-1084/302, 6-8=-599/3326

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-14, Corner(3) 16-6-14 to 31-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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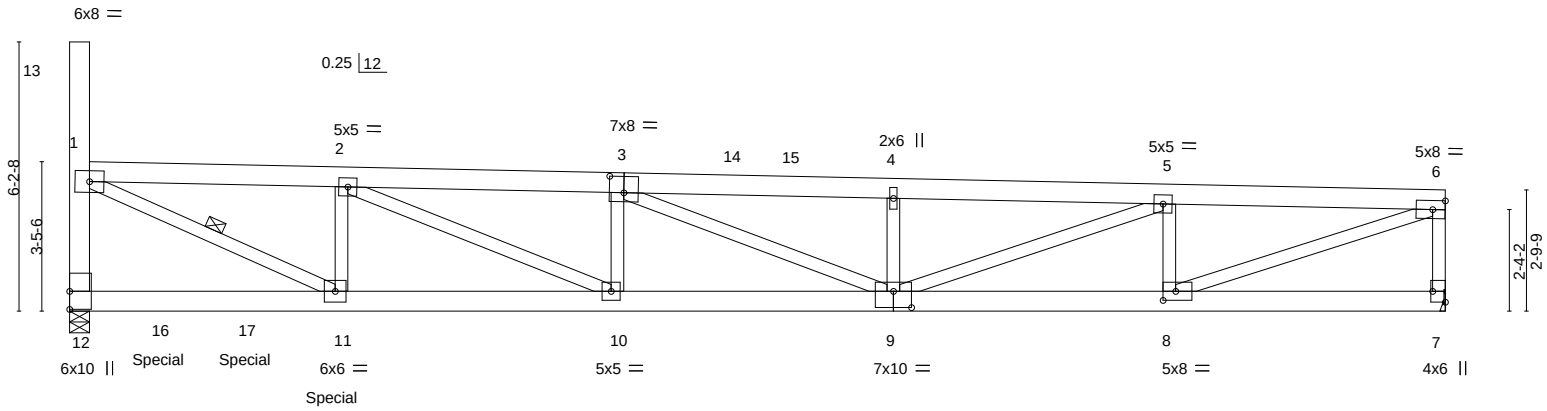
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T89	Roof Special Girder	1	1	I51652968
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:52 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-iO4_MS5tsCGMF2KV6jQ1pD4inr0kozQ2ShOrsYzM7an

6-3-4	12-7-10	19-0-0	25-4-6	31-8-12
6-3-4	6-4-6	6-4-6	6-4-6	6-4-6

Scale = 1:53.1



6-3-4	12-7-10	19-0-0	25-4-6	31-8-12
6-3-4	6-4-6	6-4-6	6-4-6	6-4-6

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-8,0-2-8], [9:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.52	9-10	>718	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-15 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-170(LC 11)
Max Uplift 12=-734(LC 16), 7=-69(LC 12)
Max Grav 12=2120(LC 55), 7=1605(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1849/797, 1-2=-3324/1688, 2-3=-4660/1612, 3-4=-4805/1390, 4-5=-4805/1385, 5-6=-3346/850, 6-7=-1526/413
BOT CHORD	11-12=-304/414, 10-11=-1693/3328, 9-10=-1627/4684, 8-9=-876/3340
WEBS	1-11=-1614/3411, 2-11=-1212/478, 2-10=-689/1587, 3-10=-541/302, 3-9=-349/405, 4-9=-487/177, 5-9=-567/1564, 5-8=-1119/412, 6-8=-902/3484

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 734 lb uplift at joint 12 and 69 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 325 lb down and 315 lb up at 2-0-12, and 325 lb down and 316 lb up at 4-0-12, and 326 lb down and 317 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-95(F) 16=-95(F) 17=-95(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-78(F) 16=-78(F) 17=-78(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-95(F) 16=-95(F) 17=-95(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 11=-95(F) 16=-95(F) 17=-95(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 11=200(F) 16=198(F) 17=199(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 11=200(F) 16=198(F) 17=199(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 11=200(F) 16=198(F) 17=199(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 11=200(F) 16=198(F) 17=199(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 11=-95(F) 16=-95(F) 17=-95(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 11=-283(F) 16=-282(F) 17=-282(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 11=-283(F) 16=-282(F) 17=-282(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 11=-283(F) 16=-282(F) 17=-282(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 11=-283(F) 16=-282(F) 17=-282(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

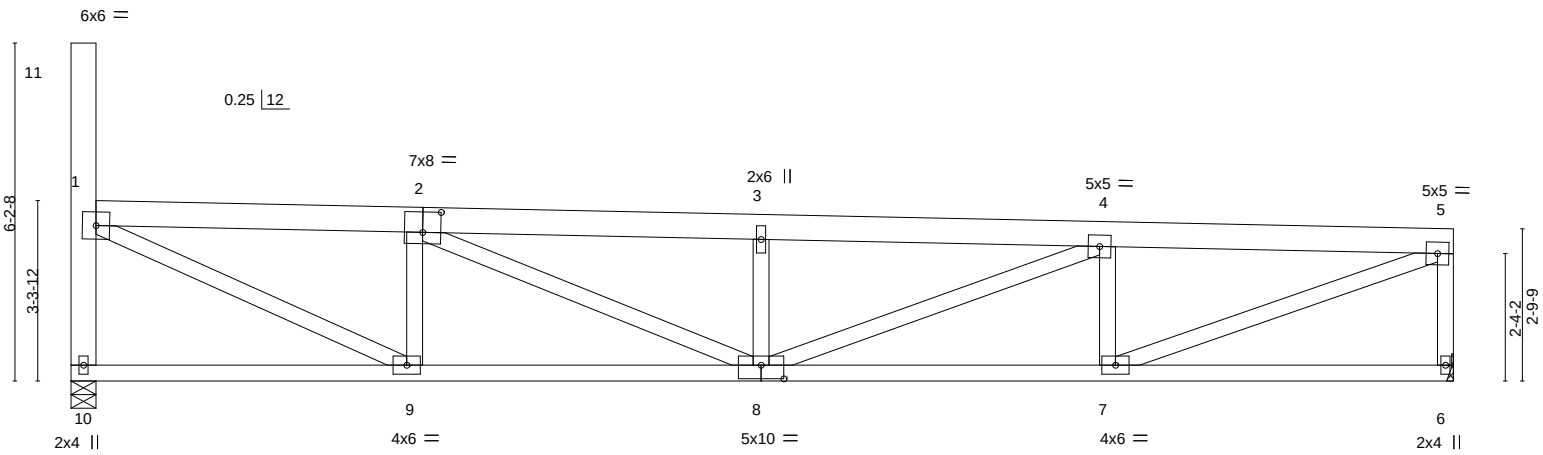
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T90	Roof Special	2	1	I51652969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:54 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-fnCln778OpW3UMUuE8SVue92NehLGxfLv?tywRzM7al

6-3-12	12-8-2	19-0-8	25-4-12
6-3-12	6-4-6	6-4-6	6-4-4

Scale = 1:42.3



6-3-12	12-8-2	19-0-8	25-4-12
6-3-12	6-4-6	6-4-6	6-4-4

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.13	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.28	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 161 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-174(LC 11)
Max Grav 10=1454(LC 22), 6=1246(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1392/339, 1-2=-2245/623, 2-3=-3040/752, 3-4=-3041/746, 4-5=-2398/556, 5-6=-1184/320
BOT CHORD 9-10=-231/354, 8-9=-648/2287, 7-8=-585/2393
WEBS 1-9=-540/2372, 2-9=-912/316, 2-8=-287/827, 3-8=-467/206, 4-8=-197/692, 4-7=-787/305, 5-7=-604/2508

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

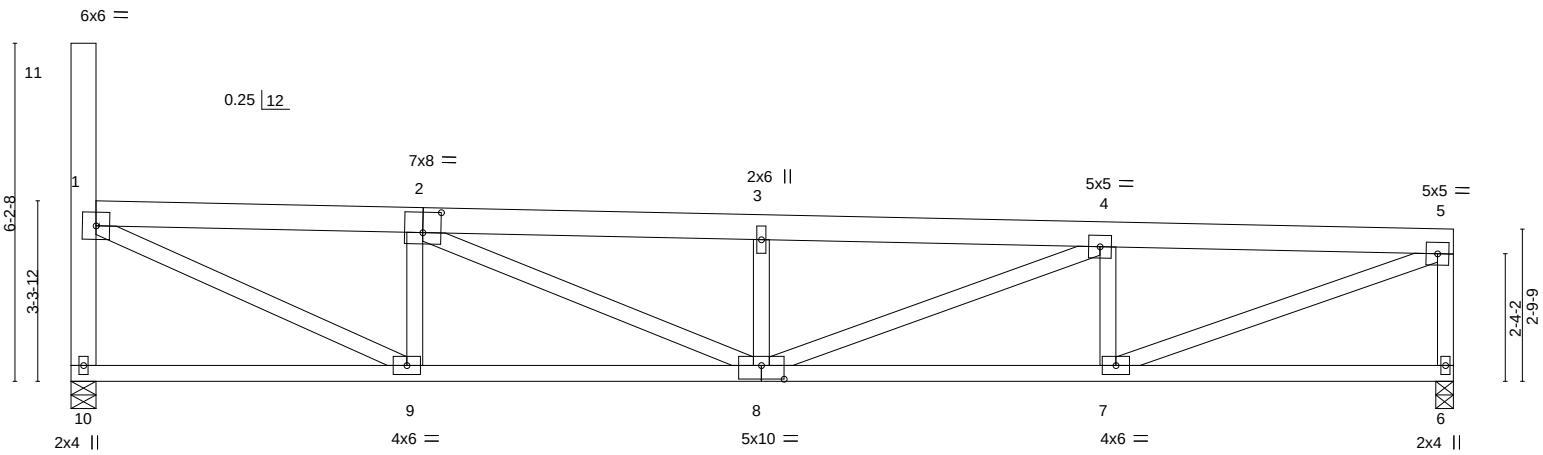
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T91	Roof Special	4	1	I51652970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7zm7_T8m97ew6W34nrzkRriD721a?OvV8fcVStzM7ak

6-3-12 (6-3-12) | 12-8-2 (6-4-6) | 19-0-8 (6-4-6) | 25-4-10 (6-4-2)

Scale = 1:42.3



6-3-12 (6-3-12) | 12-8-2 (6-4-6) | 19-0-8 (6-4-6) | 25-4-10 (6-4-2)

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [8:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.13	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.28	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 161 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=0-3-14
Max Horz 10=-174(LC 11)
Max Grav 10=1453(LC 22), 6=1245(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1392/339, 1-2=-2244/623, 2-3=-3038/752, 3-4=-3039/746, 4-5=-2394/556, 5-6=-1184/320
BOT CHORD 9-10=-231/354, 8-9=-648/2285, 7-8=-585/2389
WEBS 1-9=-540/2371, 2-9=-911/316, 2-8=-287/825, 3-8=-467/206, 4-8=-198/693, 4-7=-787/305, 5-7=-603/2505

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-60, 6-10=-20

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

May 4,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-39, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-66, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-42, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-78, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=13, 1-11=27, 1-5=3, 5-6=3
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-3, 1-11=-27, 1-5=9, 5-6=-13
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-57, 6-10=-20
Horz: 1-10=10, 1-11=-18, 1-5=3, 5-6=2
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-5=-51, 6-10=-20
Horz: 1-10=-2, 1-11=-18, 1-5=9, 5-6=-10
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-70, 6-10=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

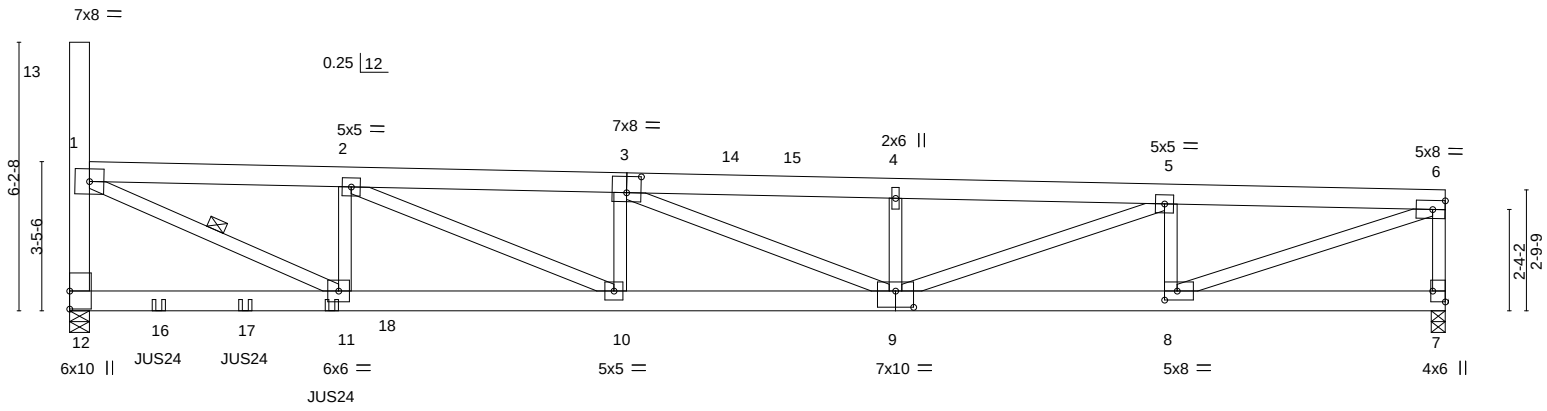
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T92	Roof Special Girder	1	1	I51652971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:56 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-b9KVBp8OwRmnjgeHLZVzz3FOfSNbknOeNJM3?KzM7aj

6-4-6	12-8-12	19-1-2	25-5-8	31-9-10
6-4-6	6-4-6	6-4-6	6-4-6	6-4-2

Scale = 1:53.3



6-4-6	12-8-12	19-1-2	25-5-8	31-9-10
6-4-6	6-4-6	6-4-6	6-4-6	6-4-2

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-3-8], [8:0-3-8,0-2-8], [9:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.53	9-10	>714	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-0 oc bracing.
WEBS	1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-170(LC 11)
Max Uplift 12=-741(LC 16), 7=-67(LC 12)
Max Grav 12=2129(LC 55), 7=1608(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1850/788, 1-2=-3356/1693, 2-3=-4683/1597, 3-4=-4818/1381, 4-5=-4819/1376, 5-6=-3346/843, 6-7=-1529/411
BOT CHORD	11-12=-309/419, 10-11=-1698/3360, 9-10=-1612/4706, 8-9=-869/3340
WEBS	1-11=-1610/3442, 2-11=-1210/486, 2-10=-706/1590, 3-10=-536/296, 3-9=-336/387, 4-9=-487/178, 5-9=-566/1579, 5-8=-1124/410, 6-8=-895/3485

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-14, Corner(3) 16-7-14 to 31-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 12=741.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-67, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-78(B) 17=-78(B) 18=-78(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-79, 7-12=-20
   Concentrated Loads (lb)
   Vert: 16=-94(B) 17=-94(B) 18=-94(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Concentrated Loads (lb)
   Vert: 16=200(B) 17=200(B) 18=201(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Concentrated Loads (lb)
   Vert: 16=200(B) 17=200(B) 18=201(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-12=-20
   Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Concentrated Loads (lb)
   Vert: 16=200(B) 17=200(B) 18=201(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Concentrated Loads (lb)
   Vert: 16=200(B) 17=200(B) 18=201(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 16=-94(B) 17=-94(B) 18=-94(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Concentrated Loads (lb)
Vert: 16=-282(B) 17=-283(B) 18=-284(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Concentrated Loads (lb)
Vert: 16=-282(B) 17=-283(B) 18=-284(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Concentrated Loads (lb)
Vert: 16=-282(B) 17=-283(B) 18=-284(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Concentrated Loads (lb)
Vert: 16=-282(B) 17=-283(B) 18=-284(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

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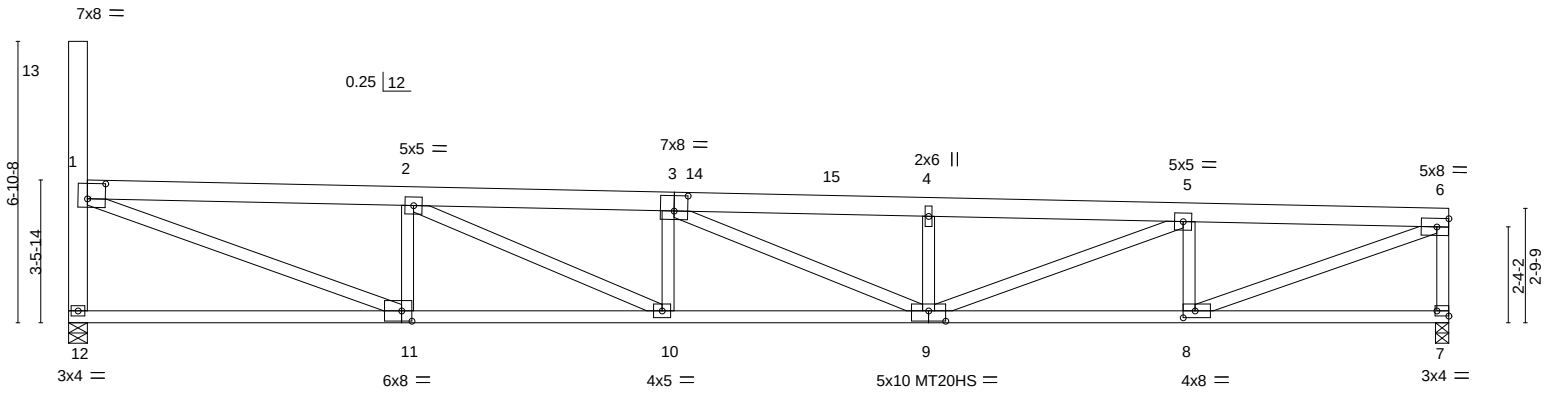
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T93	Roof Special	3	1	I51652972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-XYSFcVAeR20VzznfTzXR2UKdfG_bCfExqdr93CzM7ah

8-3-6	14-7-12	21-0-2	27-4-8	33-8-10
8-3-6	6-4-6	6-4-6	6-4-6	6-4-2

Scale = 1:56.3



8-3-6	14-7-12	21-0-2	27-4-8	33-8-10
8-3-6	6-4-6	6-4-6	6-4-6	6-4-2

Plate Offsets (X,Y)-- [1:0-5-4,0-4-8], [3:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-3-8,0-2-0], [9:0-5-0,0-3-0], [11:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.35	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.70	9-10	>569	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.11	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 211 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1 *Except*
	11-12: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-7-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-196(LC 11)
Max Grav 12=1955(LC 22), 7=1684(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1871/330, 1-2=-3832/738, 2-3=-5034/878, 3-4=-5049/840, 4-5=-5049/835, 5-6=-3436/552, 6-7=-1620/303
BOT CHORD	11-12=-251/370, 10-11=-743/3823, 9-10=-896/5052, 8-9=-579/3431
WEBS	1-11=-615/3917, 2-11=-1268/318, 2-10=-290/1329, 3-10=-440/193, 4-9=-512/170, 5-9=-300/1737, 5-8=-1194/302, 6-8=-599/3612

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-6-14, Corner(3) 18-6-14 to 33-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20

May 4,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150(F=-80)-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120(F=-60)-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99(F=-60)-to-2=-39

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127(F=-60)-to-2=-67

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122(F=-80)-to-2=-42

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159(F=-80)-to-2=-79

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-117(F=-60)-to-2=-57

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-111(F=-60)-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-117(F=-60)-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-111(F=-60)-to-2=-51

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150(F=-80)-to-2=-70

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MiTek
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Chesterfield, MO 63017

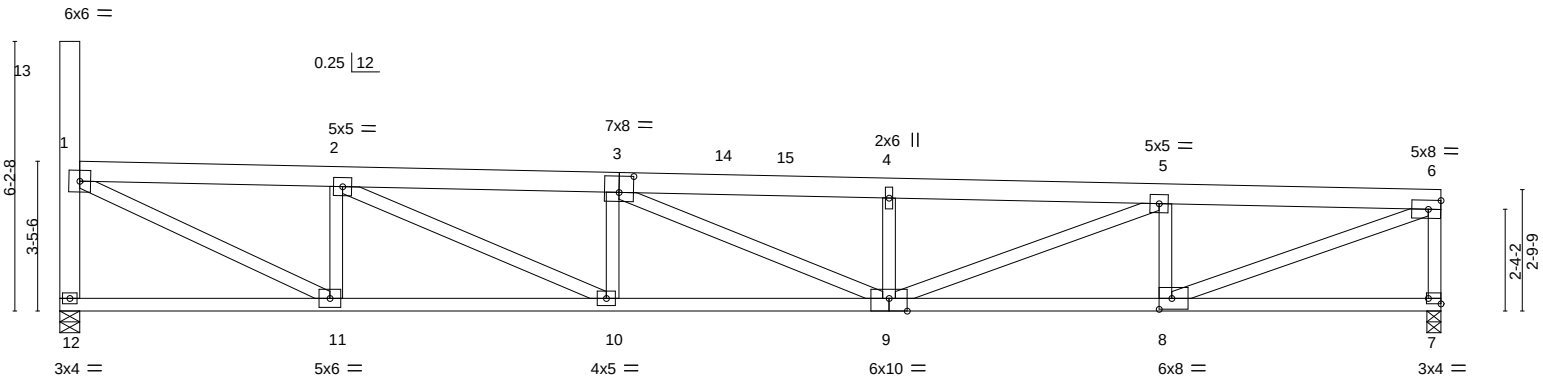
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T94	Roof Special	11	1	I51652973
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:46:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-?k?eqrBGCM8Ma7Mr0h2gbhsv4fLGx9k43HajcfzM7ag

6-4-6	12-8-12	19-1-2	25-5-8	31-9-10
6-4-6	6-4-6	6-4-6	6-4-6	6-4-2

Scale = 1:53.1



6-4-6	12-8-12	19-1-2	25-5-8	31-9-10
6-4-6	6-4-6	6-4-6	6-4-6	6-4-2

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-3-8,0-3-0], [9:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	9-10	>681	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-12: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-14
Max Horz 12=-172(LC 11)
Max Grav 12=1787(LC 22), 7=1574(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1724/319, 1-2=-2864/615, 2-3=-4332/819, 3-4=-4541/817, 4-5=-4541/812, 5-6=-3172/550, 6-7=-1510/305
BOT CHORD	11-12=-204/317, 10-11=-621/2857, 9-10=-839/4356, 8-9=-577/3167
WEBS	1-11=-523/3082, 2-11=-1258/314, 2-10=-339/1620, 3-10=-557/219, 4-9=-501/175, 5-9=-276/1474, 5-8=-1090/302, 6-8=-598/3332

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-14, Corner(3) 16-7-14 to 31-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

May 4,2022

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
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Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T94A	Roof Special	2	1	I51652974
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-TwZ01BCuzfGDCHx2aOZv8vP4q3hUgczEIxKG85zM7af

6-4-6	12-8-12	19-1-2	25-5-8	31-9-12
6-4-6	6-4-6	6-4-6	6-4-6	6-4-4

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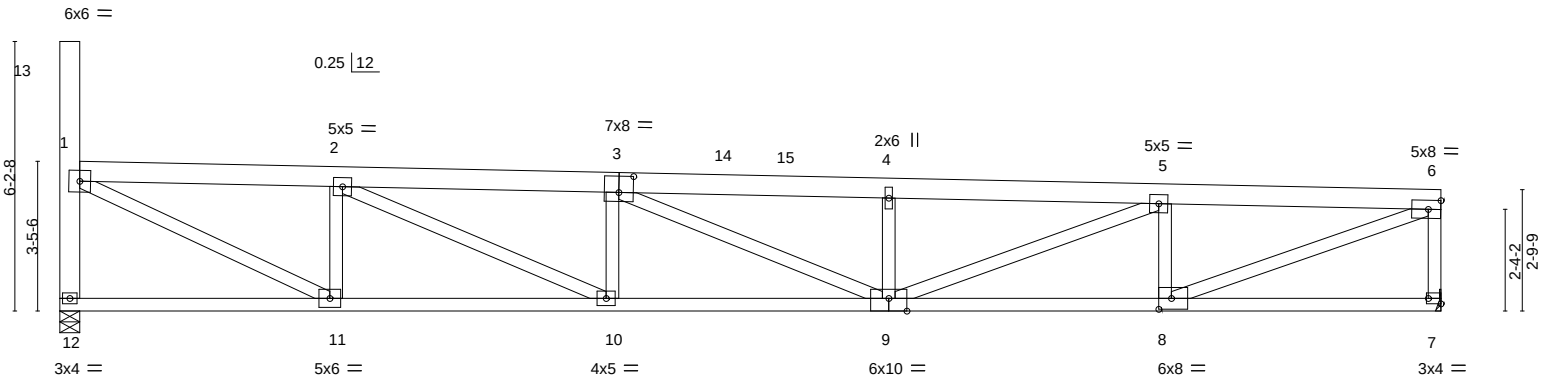

6-4-6	12-8-12	19-1-2	25-5-8	31-9-12
6-4-6	6-4-6	6-4-6	6-4-6	6-4-4

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:Edge,0-1-8], [8:0-3-8,0-3-0], [9:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.27	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	9-10	>680	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 9-12: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-172(LC 11)
Max Grav 12=1788(LC 22), 7=1574(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1725/319, 1-2=-2865/615, 2-3=-4335/819, 3-4=-4545/817, 4-5=-4545/812, 5-6=-3178/550, 6-7=-1511/305
BOT CHORD	11-12=-204/317, 10-11=-621/2858, 9-10=-839/4358, 8-9=-578/3172
WEBS	1-11=-522/3083, 2-11=-1259/314, 2-10=-340/1621, 3-10=-557/219, 4-9=-501/175, 5-9=-276/1472, 5-8=-1090/302, 6-8=-598/3337

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-8-0, Corner(3) 16-8-0 to 31-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-67, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-79, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=3, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=9, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=3, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=9, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T95	Roof Special	3	1	I51652975
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:00 2022 Page 1
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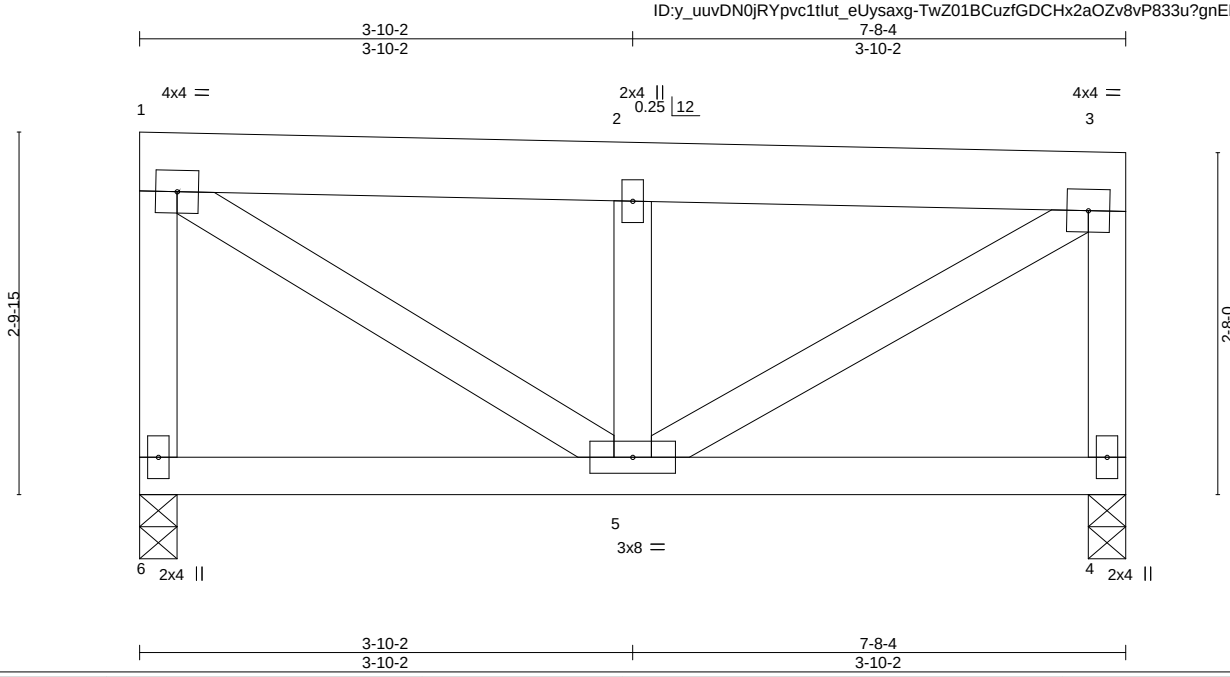

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 50 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=-52(LC 13)
Max Grav 6=358(LC 22), 4=358(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-328/208, 1-2=-334/170, 2-3=-333/163, 3-4=-328/202
WEBS 1-5=-227/397, 2-5=-336/260, 3-5=-213/389

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T96	Roof Special	11	1	I51652976
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:01 2022 Page 1
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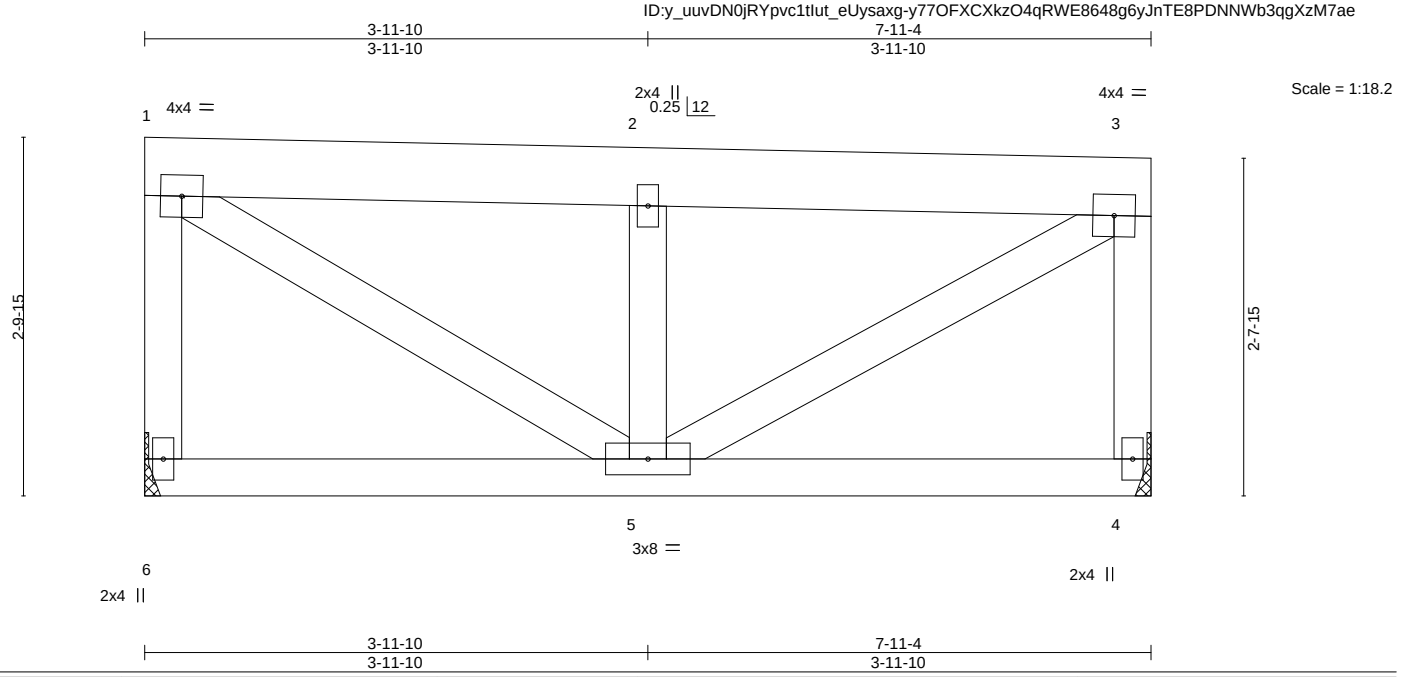

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 51 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 11)
Max Grav 6=370(LC 22), 4=370(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-339/211, 1-2=-358/178, 2-3=-356/172, 3-4=-339/205
WEBS 1-5=-235/421, 2-5=-348/266, 3-5=-221/413

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T97	Roof Special	54	1	I51652977
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:02 2022 Page 1
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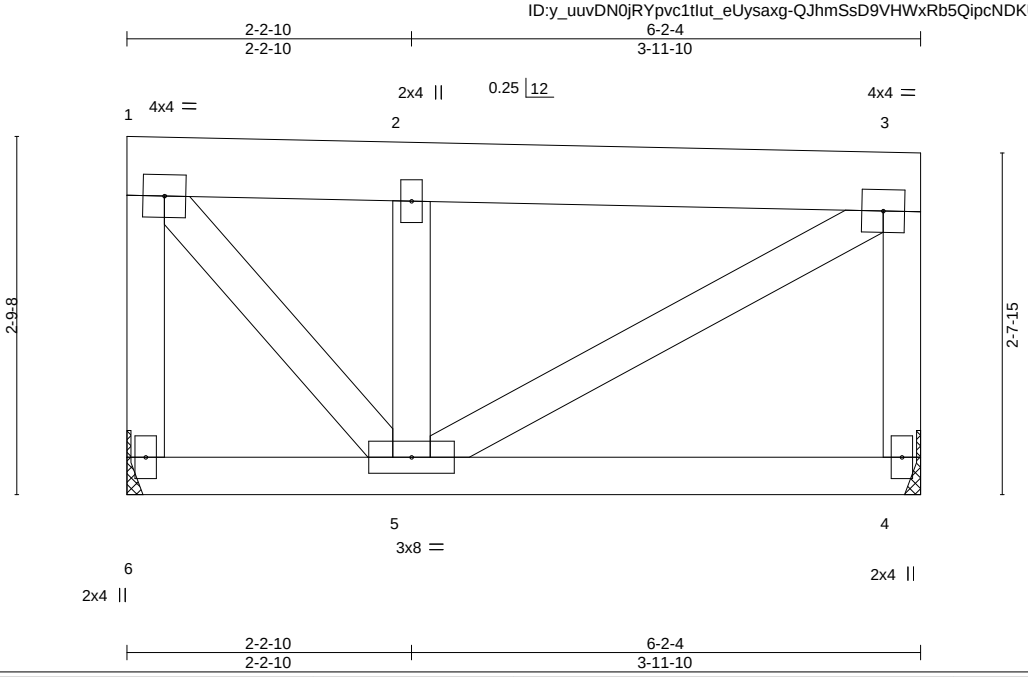

Scale = 1:18.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 43 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 13)
Max Grav 6=285(LC 22), 4=285(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-275/179, 3-4=-253/187
WEBS 1-5=-196/310, 2-5=-282/237

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T98	Roof Special	1	1	I51652978
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:03 2022 Page 1
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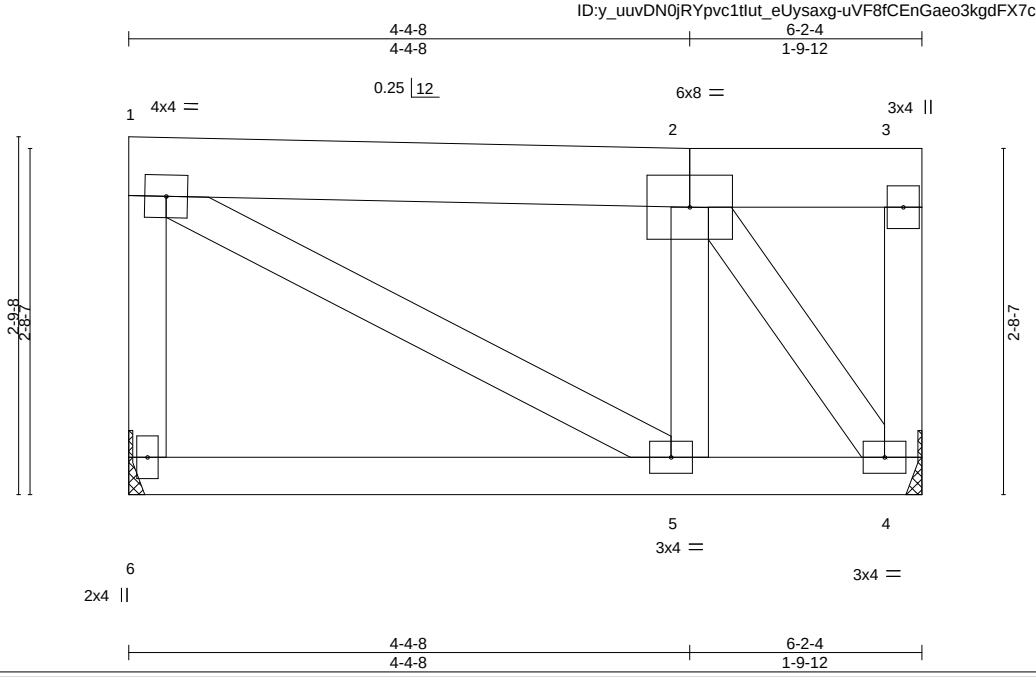

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 43 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 11)
Max Grav 6=282(LC 36), 4=280(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-268/141

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T99	Roof Special	1	1	I51652979
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:47:04 2022 Page 1
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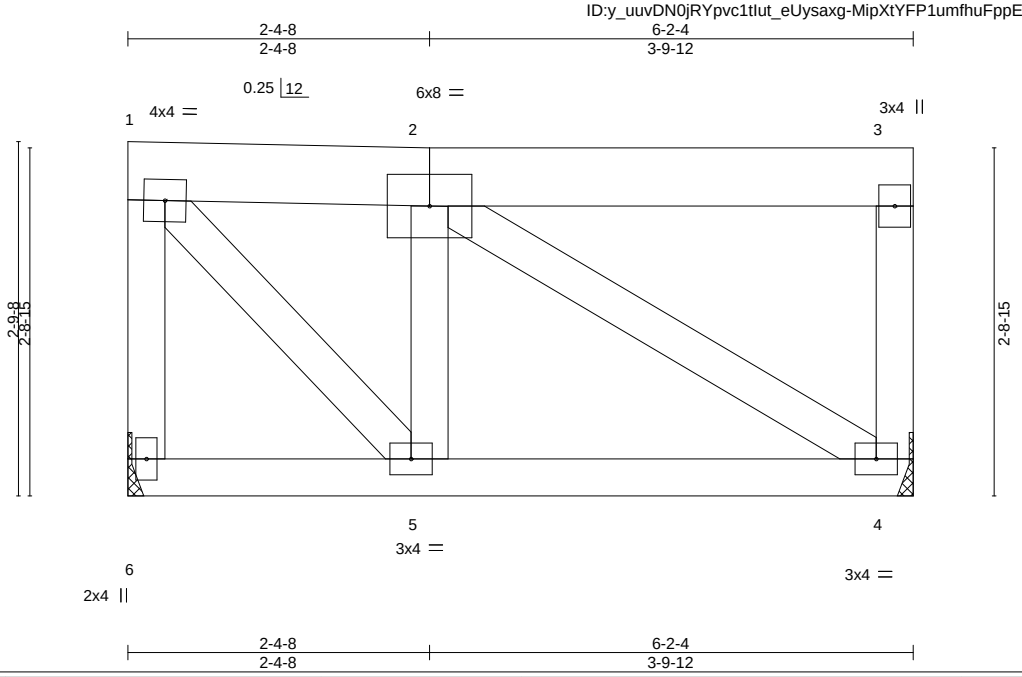

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 43 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 11)
Max Grav 6=280(LC 22), 4=280(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-266/180
WEBS 1-5=-152/254

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T100	Roof Special	1	1	I51652980
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:29 2022 Page 1
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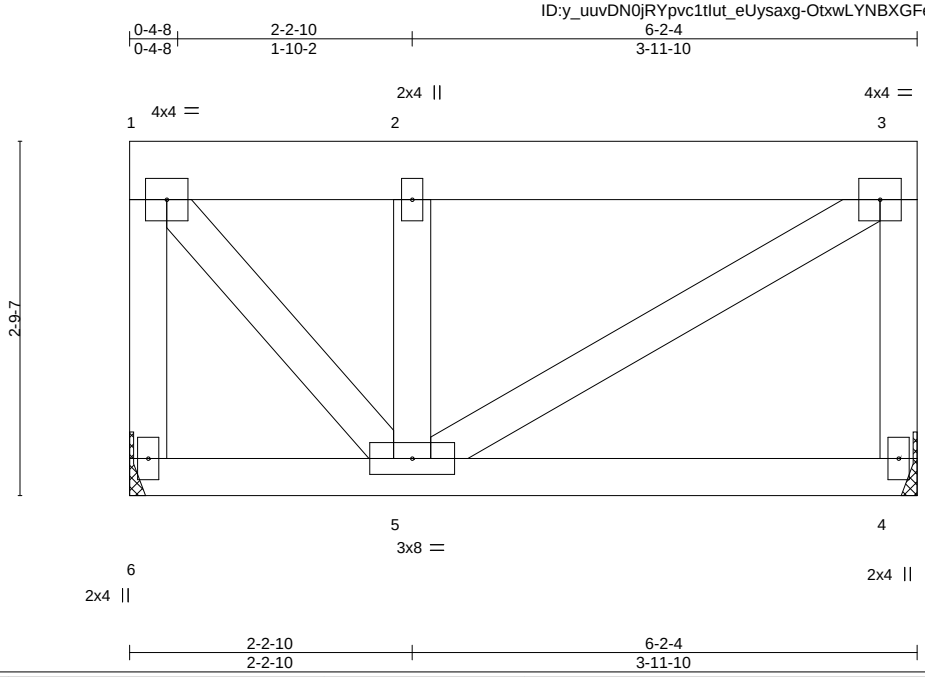

Scale = 1:18.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 43 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-51(LC 13)
Max Grav 6=265(LC 1), 4=265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-255/177
WEBS 1-5=-190/284, 2-5=-257/237

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T101	Roof Special	39	1	I51652981
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:31 2022 Page 1
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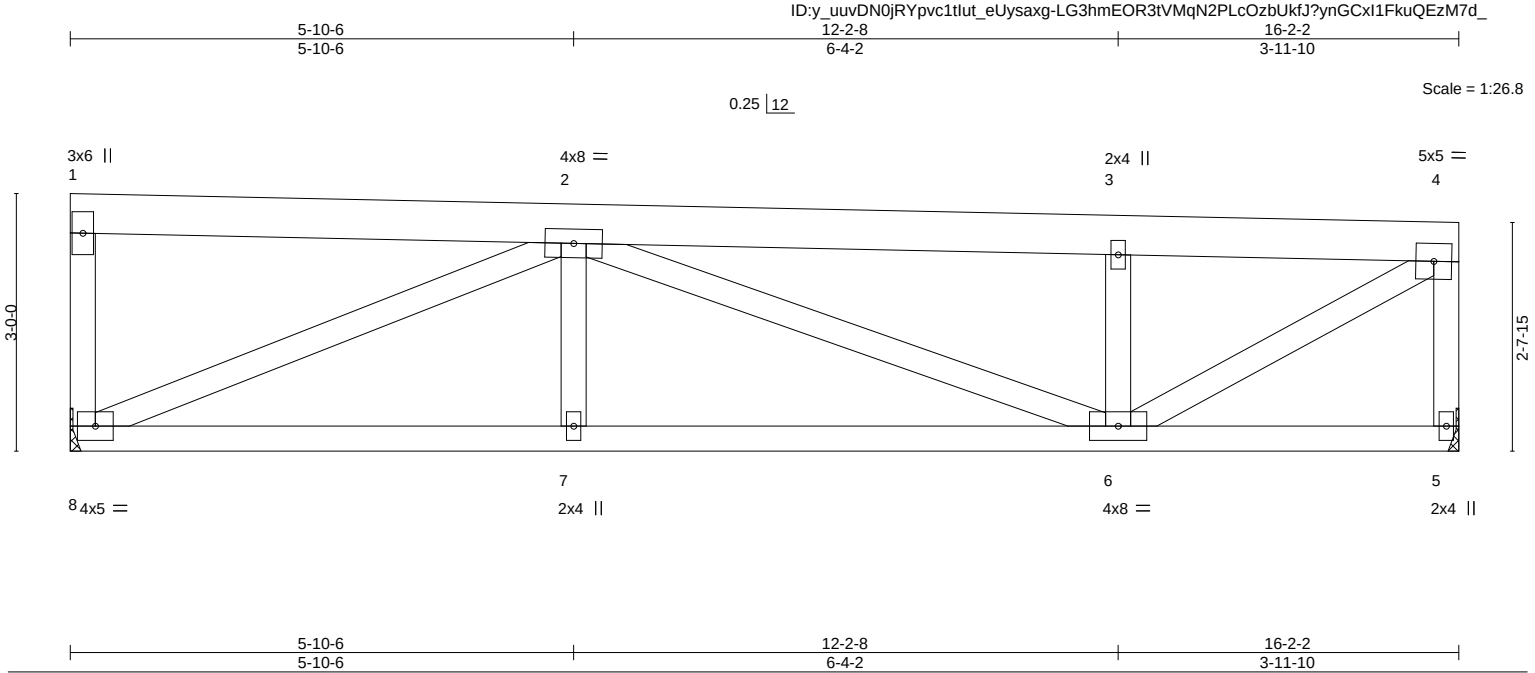

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 98 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=-56(LC 13)
Max Grav 8=769(LC 22), 5=769(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1041/348, 3-4=-1038/341, 4-5=-743/264
BOT CHORD 7-8=-432/1239, 6-7=-432/1239
WEBS 2-8=-1353/456, 3-6=-429/238, 4-6=-394/1208

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T102	Roof Special	3	1	I51652982
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:32 2022 Page 1
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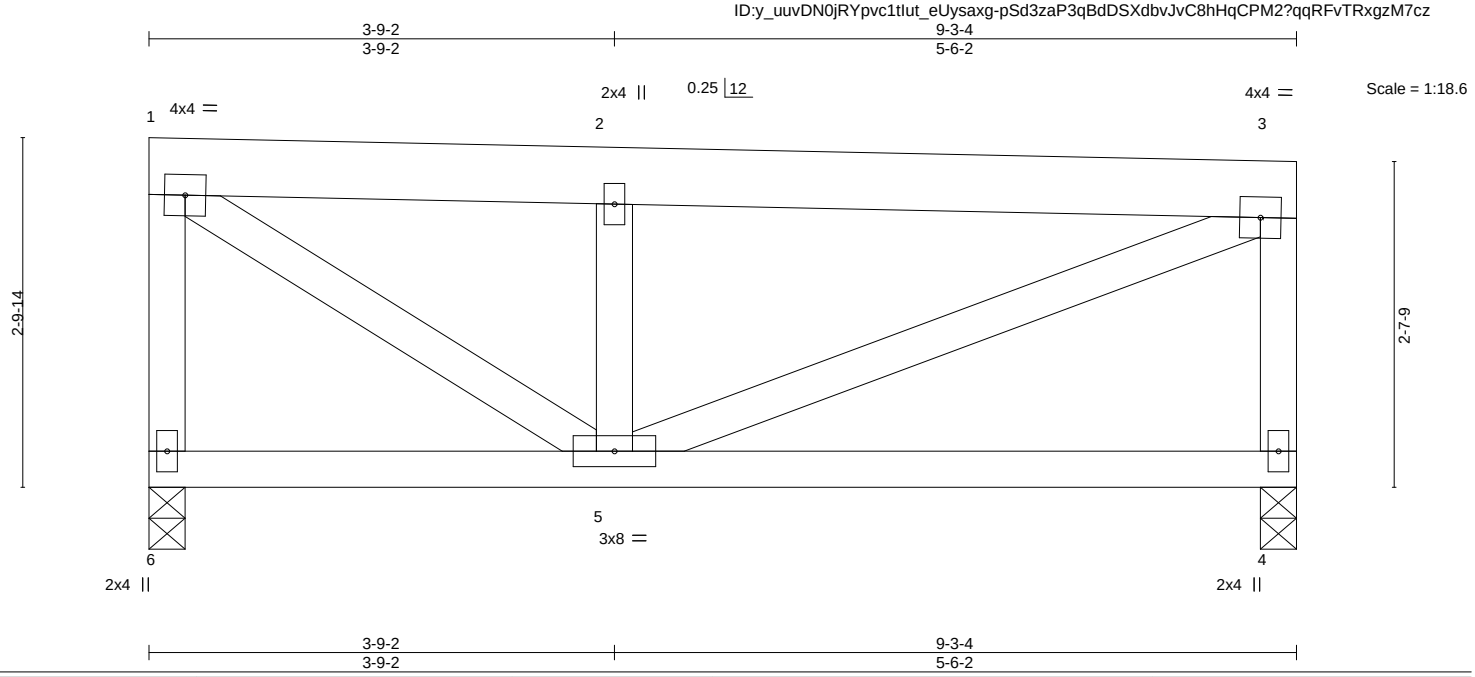

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 58 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=-52(LC 11)
Max Grav 6=435(LC 22), 4=435(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-411/219, 1-2=-492/230, 2-3=-490/223, 3-4=-390/227
WEBS 1-5=-288/589, 2-5=-424/306, 3-5=-258/529

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T103	Roof Special	12	1	I51652983
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:32 2022 Page 1
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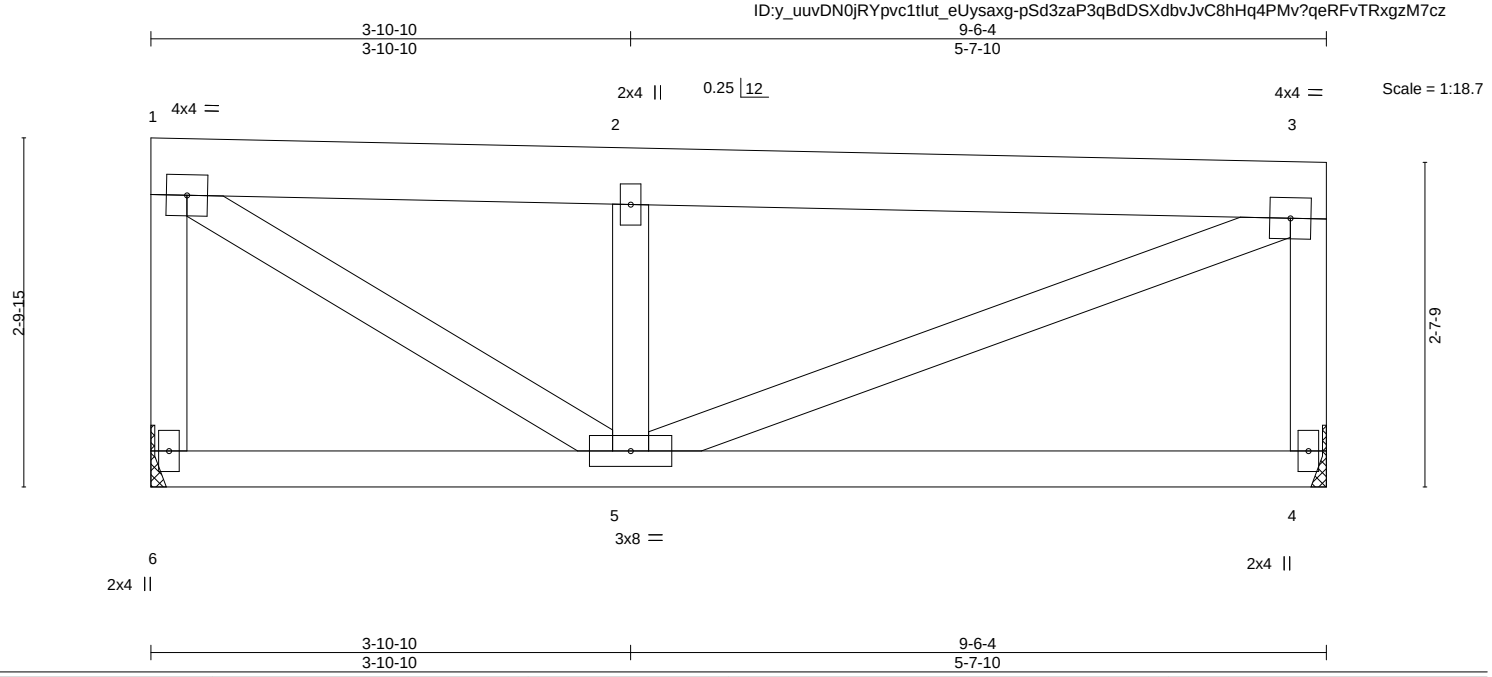

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 59 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 11)
Max Grav 6=447(LC 22), 4=447(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-422/222, 1-2=-520/240, 2-3=-519/232, 3-4=-401/230
WEBS 1-5=-297/617, 2-5=-436/311, 3-5=-267/558

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T104	Roof Special	3	1	I51652984
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:33 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-HeBRBwQhbVl43hCoT1QRgvpzGpfPkDobUZD_T6zM7cy

6-10-2 | 13-2-4 | 15-8-4
6-10-2 | 6-4-2 | 2-6-0

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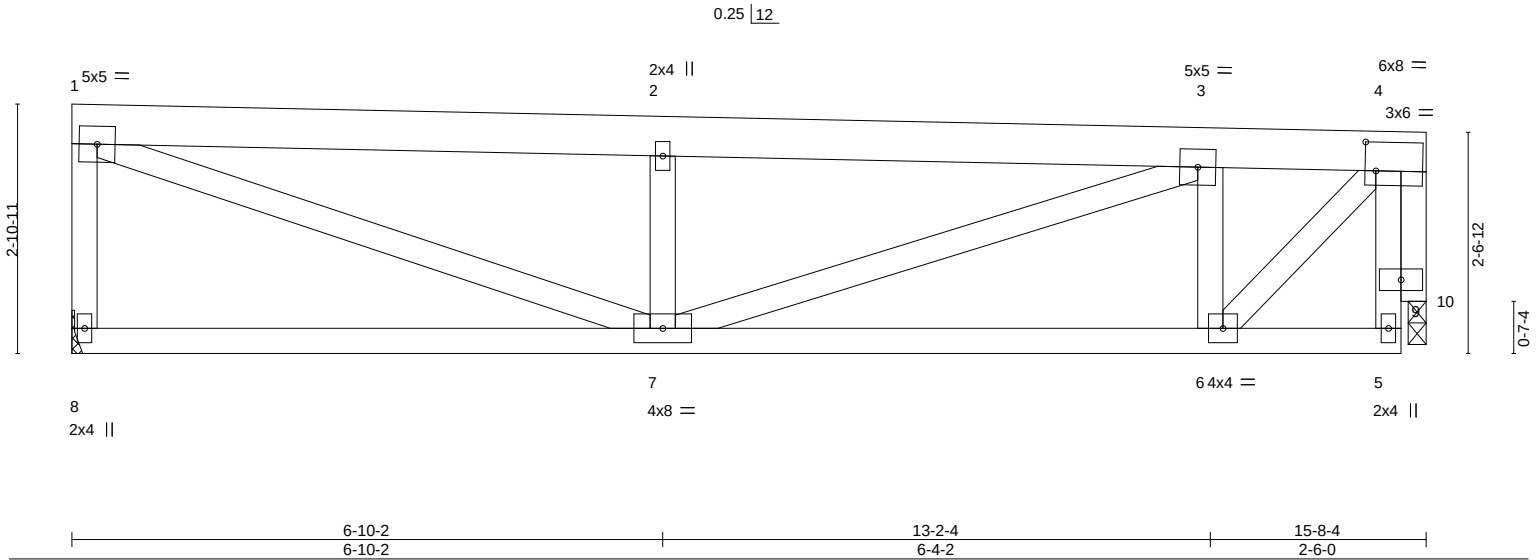

6-10-2 | 13-2-4 | 15-8-4
6-10-2 | 6-4-2 | 2-6-0

Plate Offsets (X,Y)-- [4:0-1-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.04	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 97 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 10=0-2-8
Max Horz 8=-46(LC 13)
Max Grav 8=747(LC 23), 10=715(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-8=-692/279, 1-2=-1356/461, 2-3=-1354/452, 3-4=-765/251
BOT CHORD	6-7=-257/764
WEBS	1-7=-483/1441, 2-7=-565/325, 3-7=-208/620, 3-6=-602/287, 4-6=-317/962, 4-10=-729/239

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

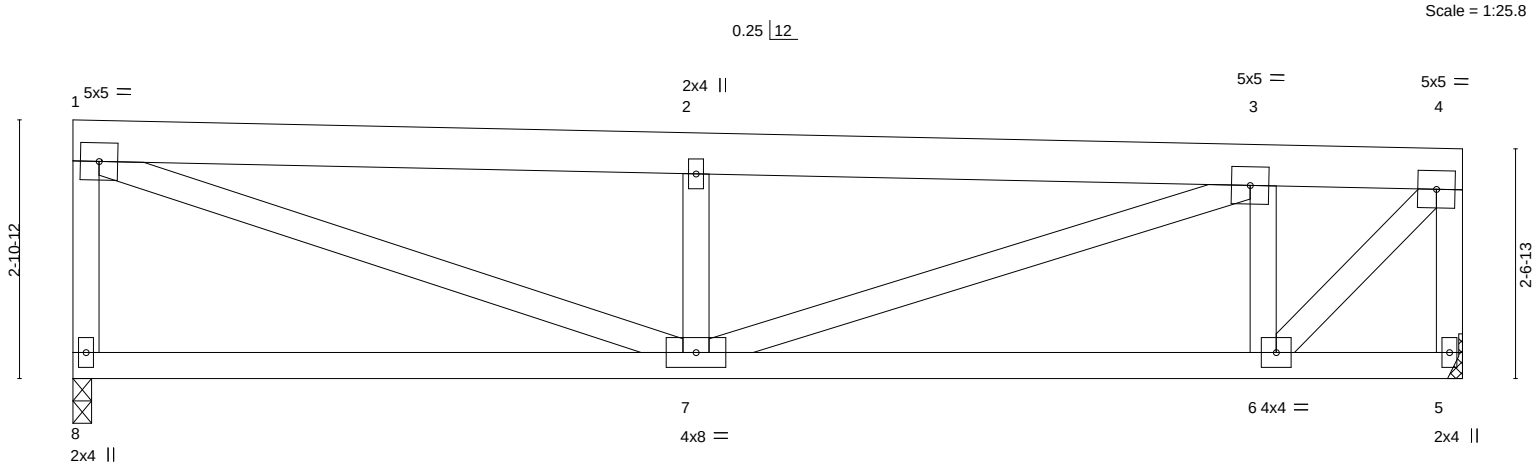
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T105	Roof Special	6	1	I51652985
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-lrlpOGRJMotxhrn_1kygD6M8qD?iTghkjDyY0YzM7cx

6-11-10 | 13-3-12 | 15-6-8
6-11-10 | 6-4-2 | 2-2-12

Scale = 1:25.8



6-11-10 | 13-3-12 | 15-6-8
6-11-10 | 6-4-2 | 2-2-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	7-8	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-2-8, 5=Mechanical
Max Horz 8=-54(LC 11)
Max Grav 8=738(LC 22), 5=738(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-682/282, 1-2=-1339/451, 2-3=-1338/443, 3-4=-683/242, 4-5=-737/247
BOT CHORD 6-7=-244/683
WEBS 1-7=-492/1420, 2-7=-571/330, 3-7=-239/689, 3-6=-622/296, 4-6=-331/993

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T106	Roof Special Structural Gable	11	1	I51652986
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:35 2022 Page 1
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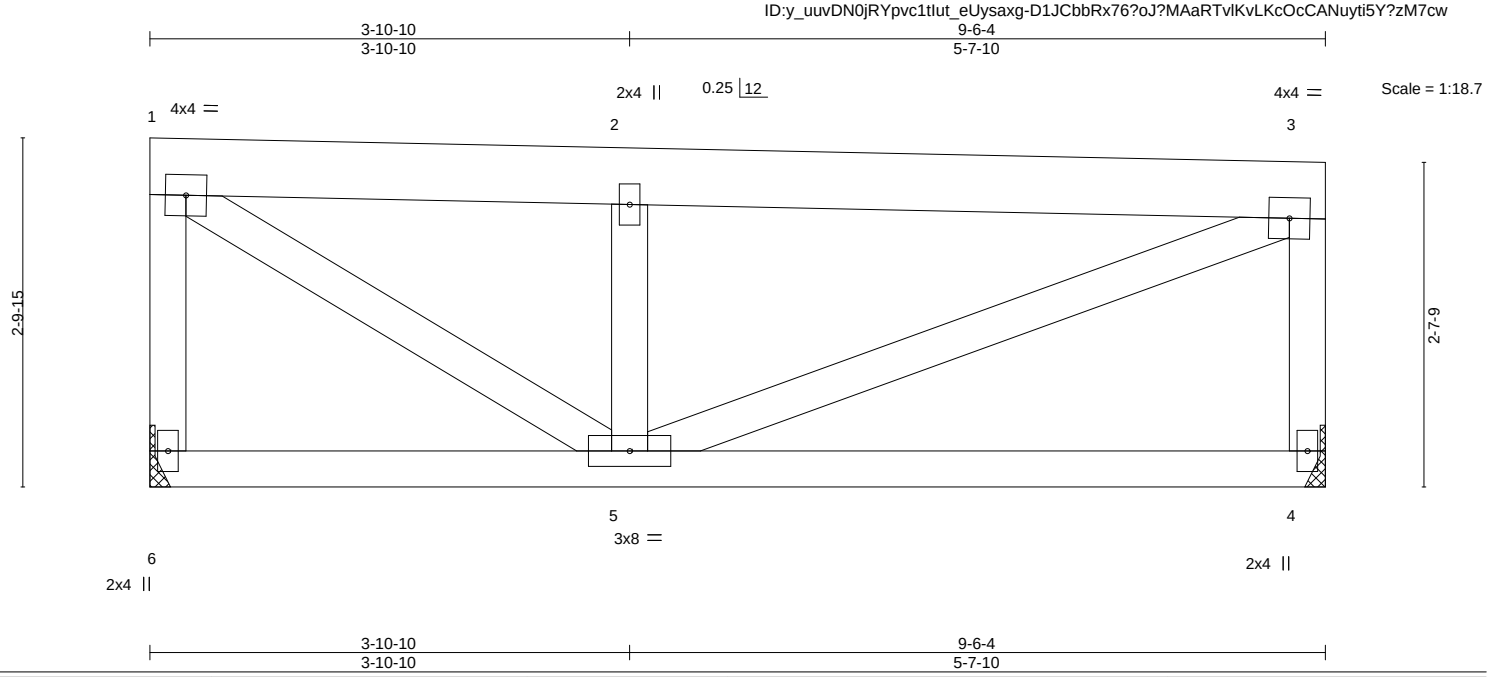

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 59 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-52(LC 11)
Max Grav 6=447(LC 22), 4=447(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-422/222, 1-2=-520/240, 2-3=-519/232, 3-4=-401/230
WEBS 1-5=-297/617, 2-5=-436/311, 3-5=-267/558

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T111	Roof Special Supported Gable	1	1	I51652987
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:37 2022 Page 1
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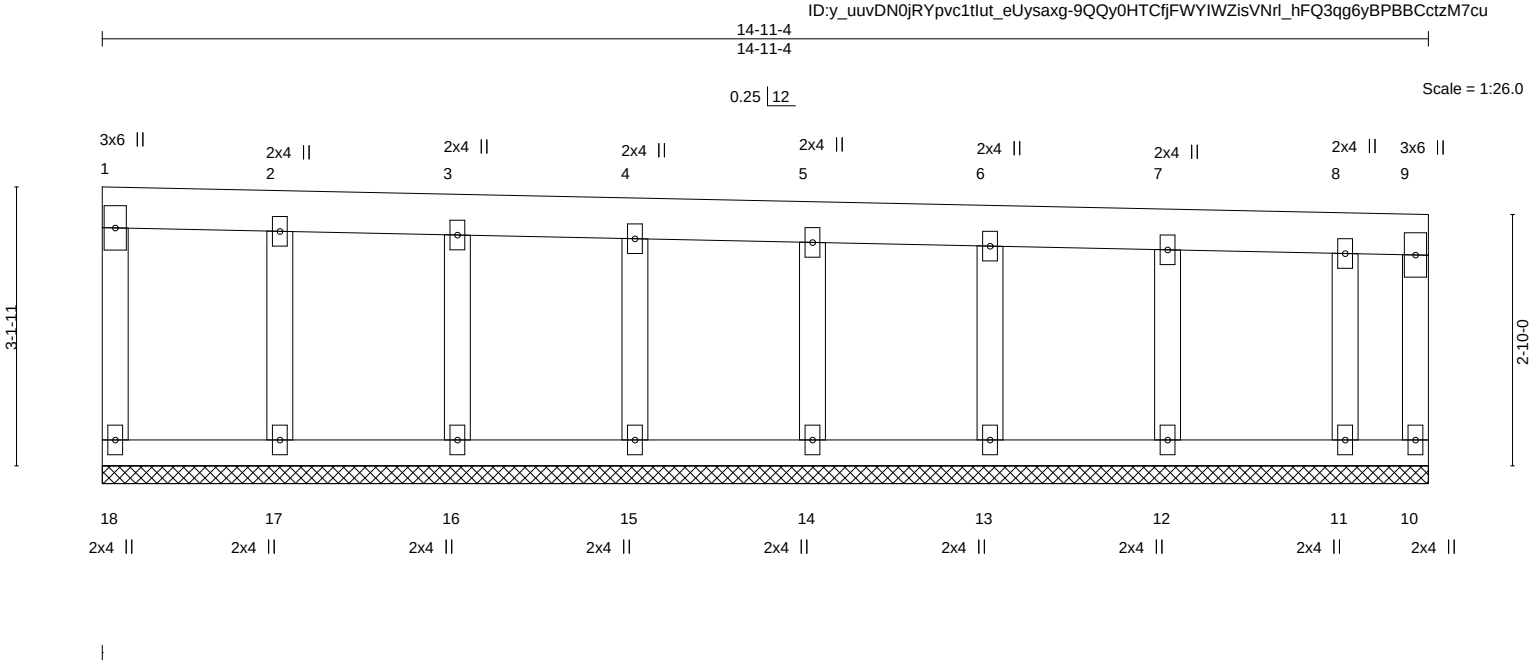

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 87 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-11-4.
(lb) - Max Horz 18=-59(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 17, 11
Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 17, 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

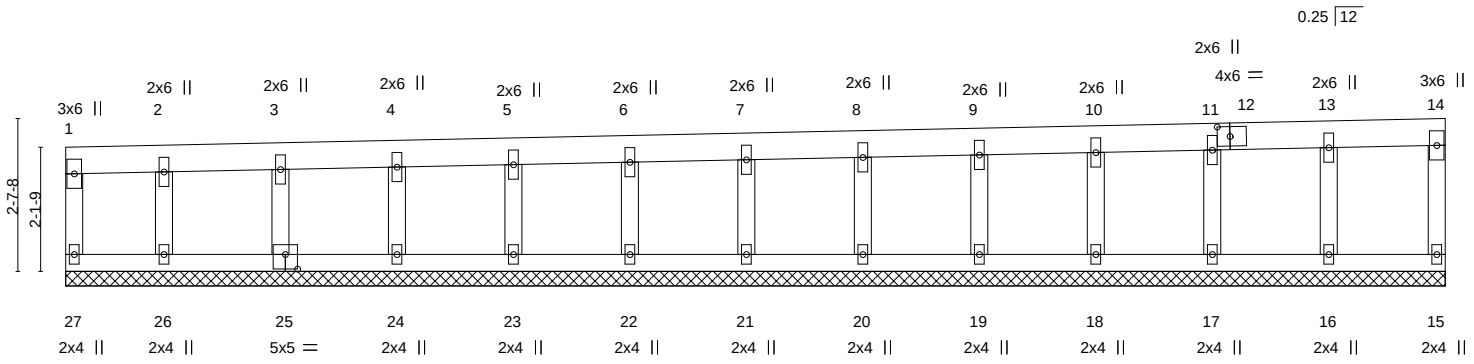
Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T112	Roof Special Supported Gable	1	1	I51652988
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:39 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-6oYiRzUSALVDncfxpHXrwA32qEnM80WTsVgJhmzM7cs

23-8-4
23-8-4

Scale = 1:39.6



23-8-4
23-8-4

Plate Offsets (X,Y)-- [12:0-2-10,0-2-0], [25:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 122 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 26-27,25-26.

REACTIONS. All bearings 23-8-4.
(lb) - Max Horz 27=48(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 27, 15
Max Grav All reactions 250 lb or less at joint(s) 27, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 15.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 4,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area B/C ROOF

Job	Truss	Truss Type	Qty	Ply	MCCAM - PRYOR-B1RB
PRYOR-B1RB	T118	Roof Special Supported Gable	1	1	I51652989
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Apr 28 16:44:40 2022 Page 1
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28-3-8
28-3-8

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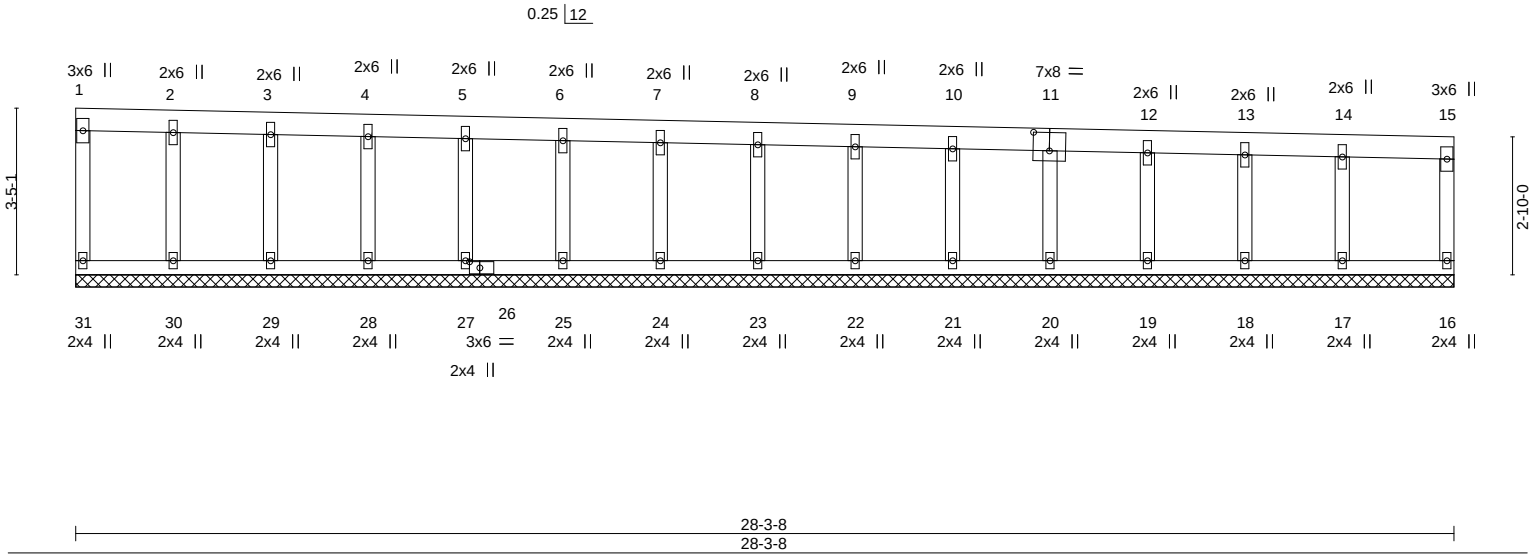


28-3-8
28-3-8

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8], [26:0-2-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 161 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-3-8.
(lb) - Max Horz 31=-65(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 31, 16, 30, 17
Max Grav All reactions 250 lb or less at joint(s) 31, 16, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 16, 30, 17.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

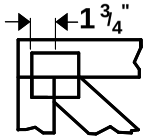
May 4,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

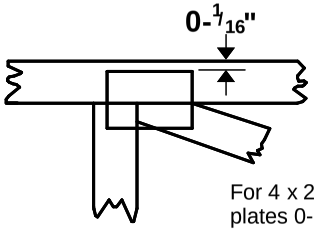
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

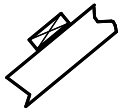
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

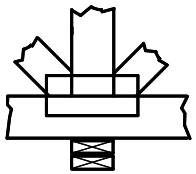
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

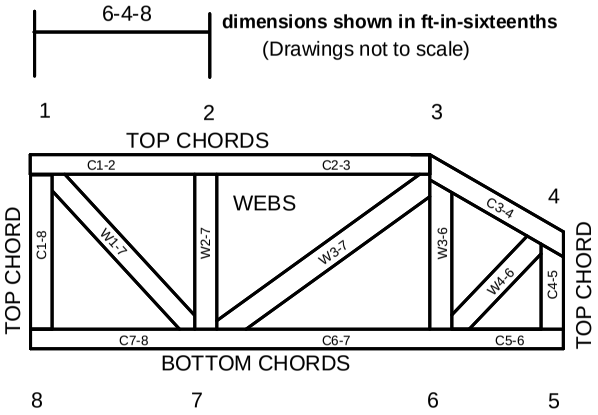


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

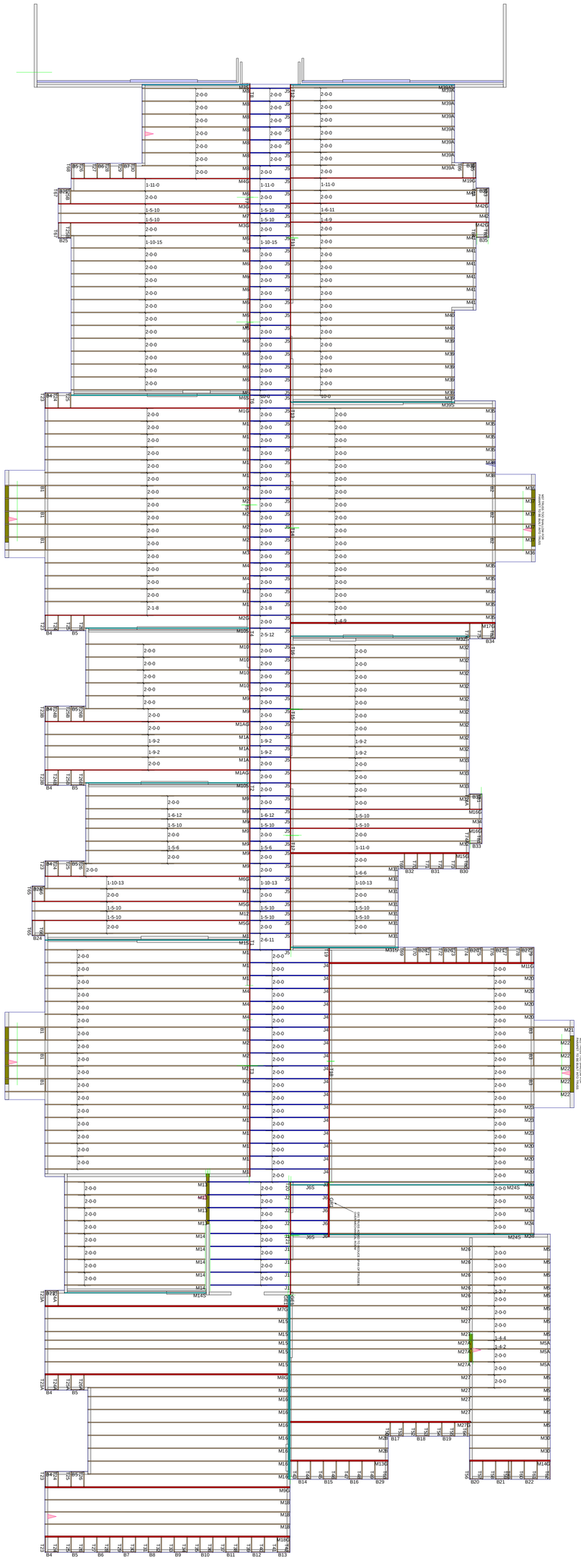
Building 1 Area B/C ROOF

PRYOR-R1D

Building 1 Area D ROOF

TRUSS LAYOUT

Scale: 1/8" = 1'-0



MID AMERICA TRUSS

9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101

OFFICE: (573) 395-3400
FAX : (573) 395-3410

MCCAMBRIDGE BROS

THE SIGNATURE AT WEST PRYOR
BUILDING 1 SECTION D
ROOF

Telephone:	Fax:
Contact:	Sales:
Drawn By:	Date:

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-R1D
BLDG 1 D ROOF

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 05/19/2022 *BY:* CB

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I52022110 thru I52022319

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 6/6/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 18,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B1	Blocking	6	1	I52022110
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:41 2022 Page 1
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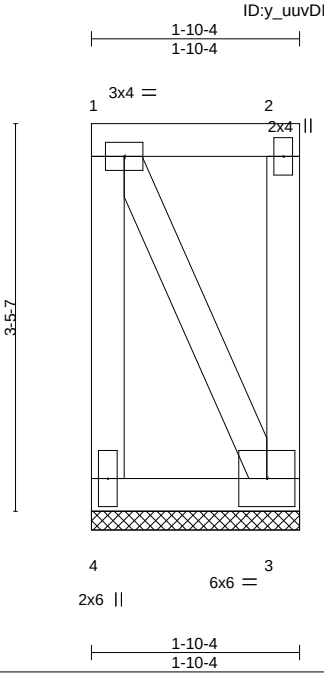

Scale = 1:20.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-68(LC 10)
Max Uplift 4=-698(LC 39), 3=-698(LC 42)
Max Grav 4=731(LC 46), 3=731(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-735/755, 1-2=-311/315
BOT CHORD 3-4=-387/391
WEBS 1-3=-877/877

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=698, 3=698.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B2	Blocking	3	1	I52022111
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:53 2022 Page 1
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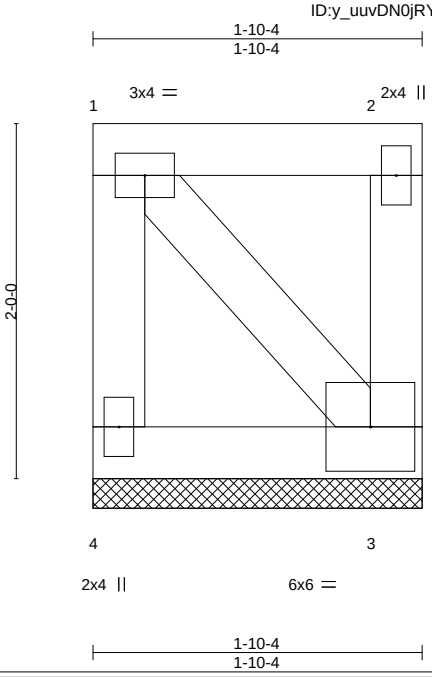

Scale = 1:13.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-36(LC 12)
Max Uplift 4=-358(LC 39), 3=-358(LC 42)
Max Grav 4=392(LC 46), 3=392(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-376/368, 1-2=-297/299
BOT CHORD 3-4=-339/340
WEBS 1-3=-524/524

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=358, 3=358.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B3	Blocking	3	1	I52022112
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:04 2022 Page 1
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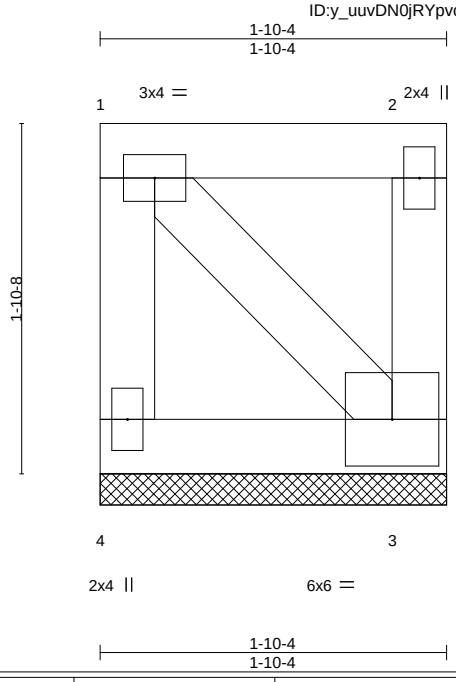

Scale = 1:12.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-34(LC 12)
Max Uplift 4=-331(LC 39), 3=-331(LC 42)
Max Grav 4=364(LC 46), 3=364(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-348/340, 1-2=-296/298
BOT CHORD 3-4=-334/336
WEBS 1-3=-499/499

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=331, 3=331.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B4	Blocking	8	1	I52022113
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:15 2022 Page 1
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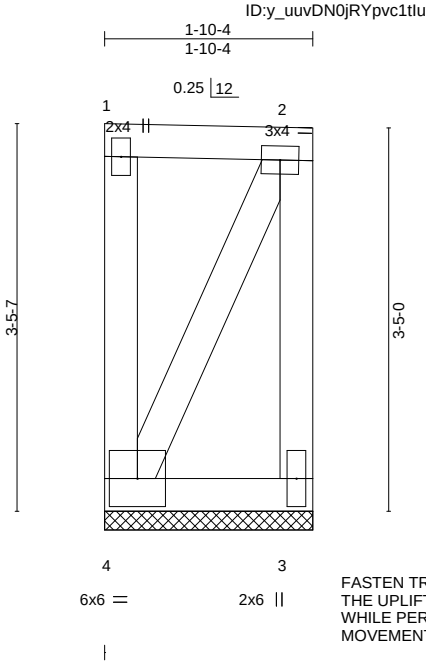

Scale = 1:20.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-67(LC 45)
Max Uplift 4=-685(LC 44), 3=-695(LC 47)
Max Grav 4=721(LC 51), 3=736(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-324/326, 2-3=-816/831
BOT CHORD	3-4=-311/314
WEBS	2-4=-863/868

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=685, 3=695.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B5	Blocking	8	1	I52022114
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:16 2022 Page 1
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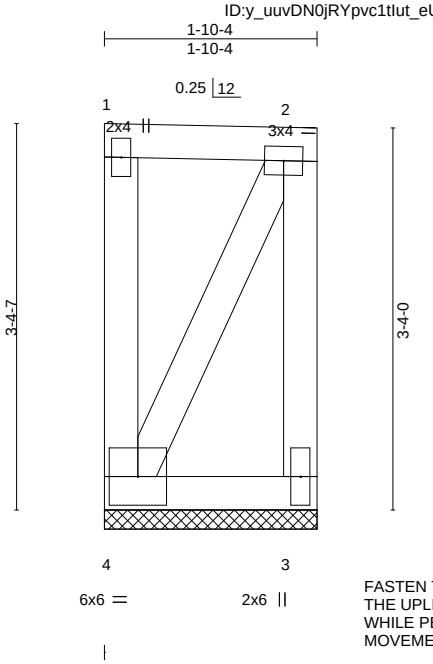

Scale = 1:20.1

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-66(LC 48)
Max Uplift 4=-664(LC 44), 3=-675(LC 47)
Max Grav 4=701(LC 51), 3=715(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-323/325, 2-3=-791/806
BOT CHORD 3-4=-310/313
WEBS 2-4=-840/845

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=664, 3=675.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B6	Blocking	2	1	I52022115
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:17 2022 Page 1
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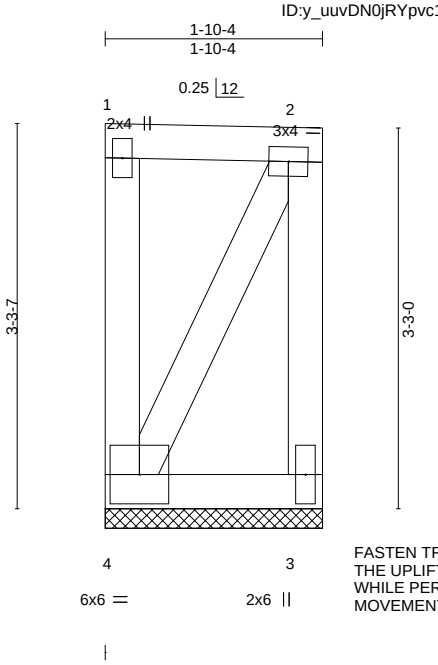

Scale = 1:19.7

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-64(LC 49)
Max Uplift 4=-644(LC 44), 3=-655(LC 47)
Max Grav 4=681(LC 51), 3=695(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-322/324, 2-3=-767/782
BOT CHORD 3-4=-309/313
WEBS 2-4=-818/822

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=644, 3=655.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B7	Blocking	2	1	I52022116
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:18 2022 Page 1
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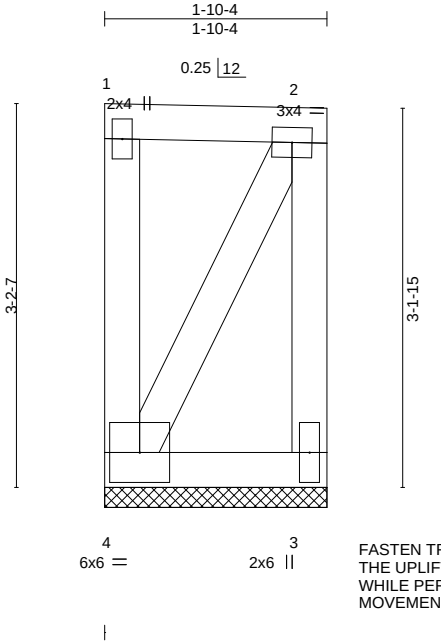

Scale = 1:19.2

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-62(LC 45)
Max Uplift 4=-624(LC 44), 3=-634(LC 47)
Max Grav 4=661(LC 51), 3=675(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-321/323, 2-3=-742/757
BOT CHORD 3-4=-308/312
WEBS 2-4=-795/800

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=624, 3=634.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B8	Blocking	1	1	I52022117
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:19 2022 Page 1
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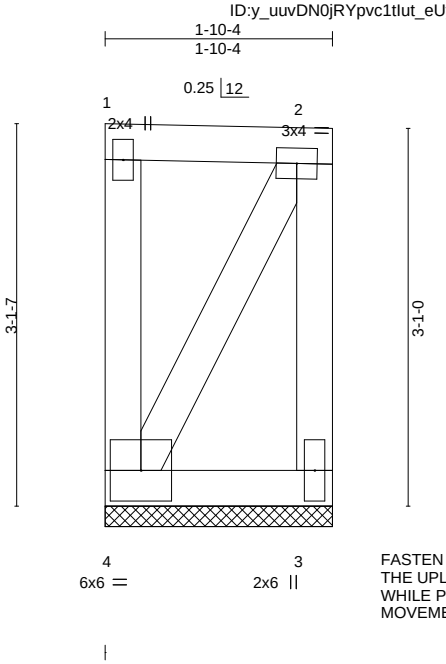

Scale = 1:18.8

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-60(LC 44)
Max Uplift 4=-604(LC 44), 3=-615(LC 47)
Max Grav 4=641(LC 51), 3=655(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-320/321, 2-3=-718/734
BOT CHORD 3-4=-308/311
WEBS 2-4=-774/778

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=604, 3=615.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B9	Blocking	1	1	I52022118
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:20 2022 Page 1
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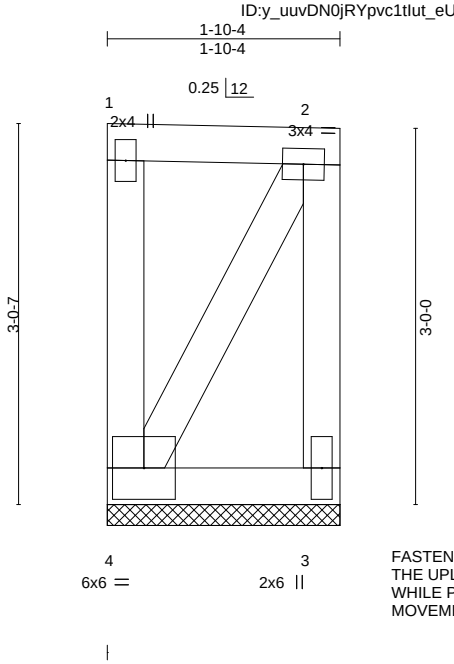

Scale = 1:18.4

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-59(LC 45)
Max Uplift 4=-584(LC 44), 3=-595(LC 47)
Max Grav 4=622(LC 51), 3=635(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-319/320, 2-3=-695/710
BOT CHORD 3-4=-307/310
WEBS 2-4=-752/756

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=584, 3=595.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B10	Blocking	1	1	I52022119
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:42 2022 Page 1
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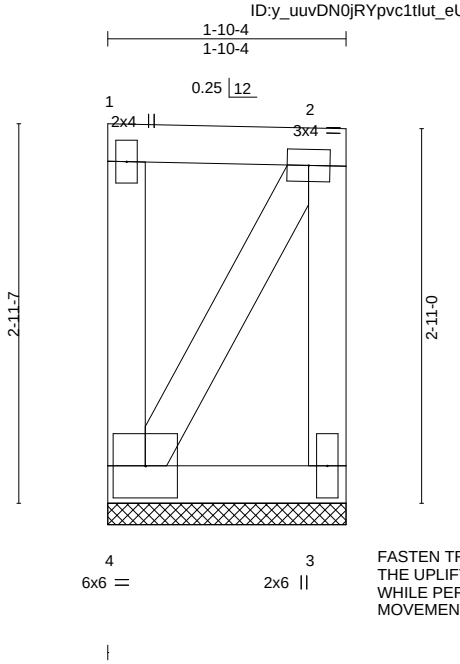

Scale = 1:17.9

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-57(LC 49)
Max Uplift 4=-565(LC 44), 3=-575(LC 47)
Max Grav 4=602(LC 51), 3=616(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-318/319, 2-3=-671/687
BOT CHORD 3-4=-306/309
WEBS 2-4=-731/735

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=565, 3=575.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B11	Blocking	1	1	I52022120
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:43 2022 Page 1
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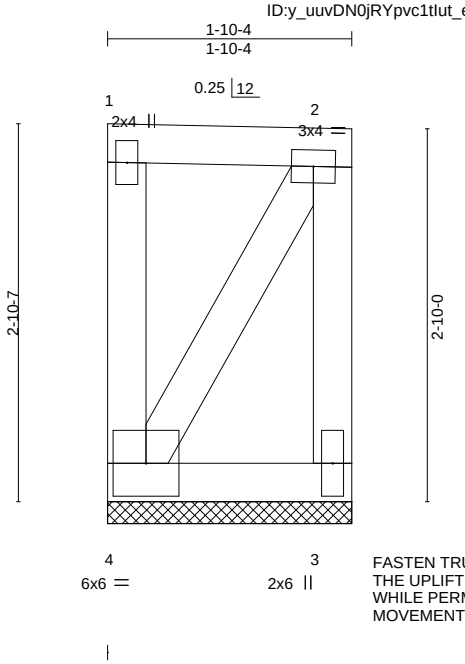

Scale = 1:17.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-55(LC 49)
Max Uplift 4=-545(LC 44), 3=-556(LC 47)
Max Grav 4=582(LC 51), 3=596(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-316/318, 2-3=-648/664
BOT CHORD 3-4=-305/308
WEBS 2-4=-710/714

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=545, 3=556.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B12	Blocking	1	1	I52022121
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:44 2022 Page 1
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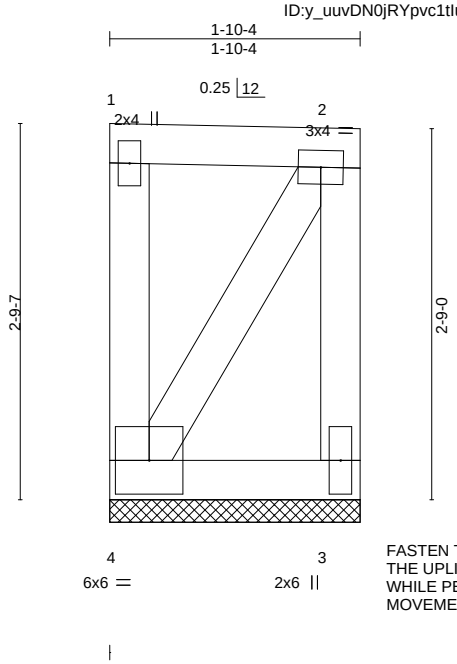

Scale = 1:17.1

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-53(LC 45)
Max Uplift 4=-525(LC 44), 3=-536(LC 47)
Max Grav 4=563(LC 51), 3=576(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-315/317, 2-3=-625/641
BOT CHORD 3-4=-304/307
WEBS 2-4=-690/694

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=525, 3=536.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B13	Blocking	1	1	I52022122
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:46 2022 Page 1
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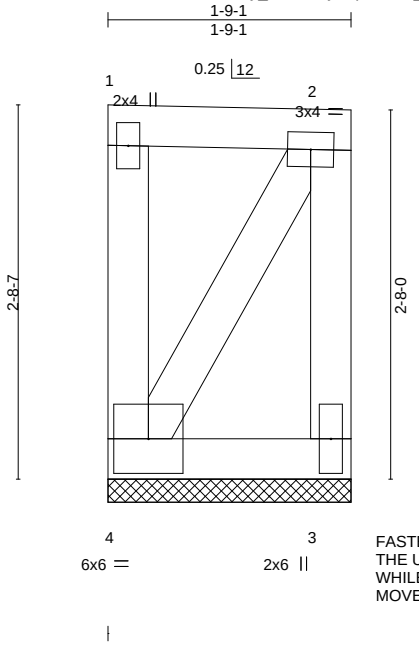

Scale = 1:16.6

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-9-1, 3=1-9-1
Max Horz 4=-51(LC 44)
Max Uplift 4=-510(LC 44), 3=-520(LC 47)
Max Grav 4=545(LC 51), 3=557(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-296/298, 2-3=-606/621
BOT CHORD 3-4=-286/289
WEBS 2-4=-664/668

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=510, 3=520.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-1 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B14	Blocking	1	1	I52022123
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:47 2022 Page 1
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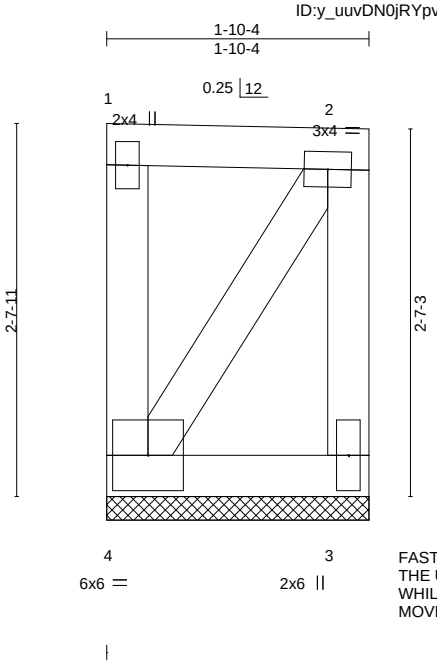

Scale = 1:16.3

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-50(LC 45)
Max Uplift 4=-491(LC 44), 3=-502(LC 47)
Max Grav 4=528(LC 51), 3=542(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-313/314, 2-3=-584/600
BOT CHORD 3-4=-303/306
WEBS 2-4=-654/657

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=491, 3=502.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B15	Blocking	1	1	I52022124
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:48 2022 Page 1
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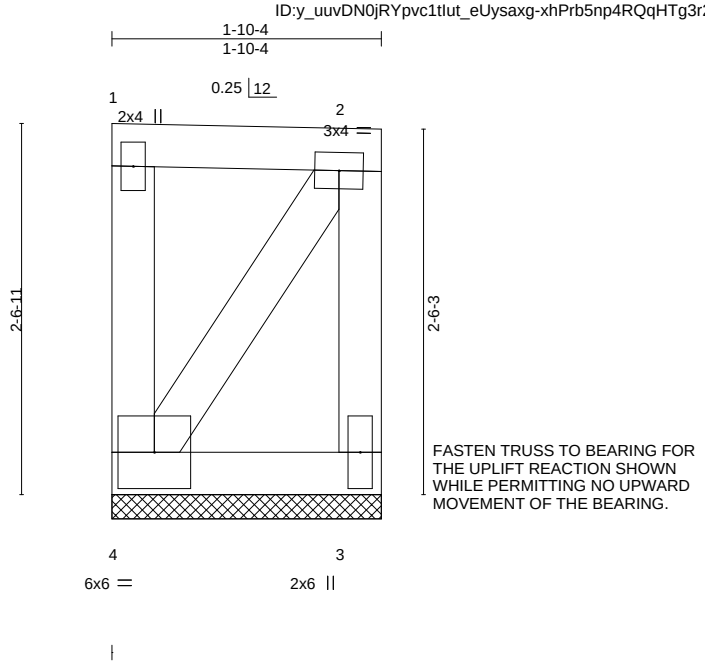

Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-48(LC 48)
Max Uplift 4=-471(LC 44), 3=-482(LC 47)
Max Grav 4=509(LC 51), 3=523(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-312/313, 2-3=-561/578
BOT CHORD 3-4=-302/305
WEBS 2-4=-634/638

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=471, 3=482.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B16	Blocking	1	1	I52022125
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:49 2022 Page 1
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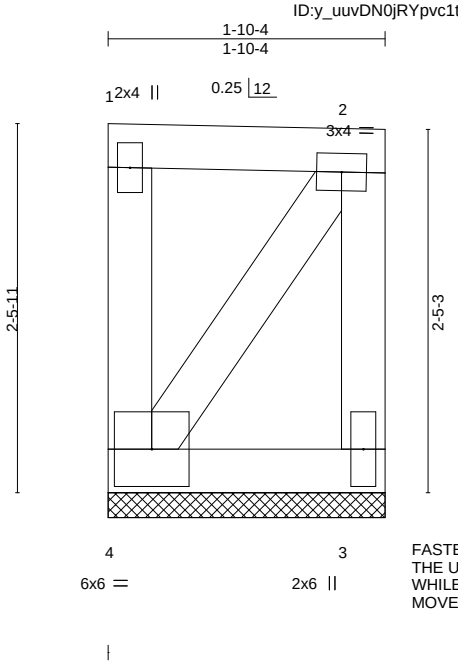

Scale = 1:15.4

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-46(LC 45)
Max Uplift 4=-452(LC 44), 3=-463(LC 47)
Max Grav 4=490(LC 51), 3=503(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-311/312, 2-3=-539/555
BOT CHORD 3-4=-301/304
WEBS 2-4=-615/619

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=452, 3=463.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B17	Blocking	1	1	I52022126
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:50 2022 Page 1
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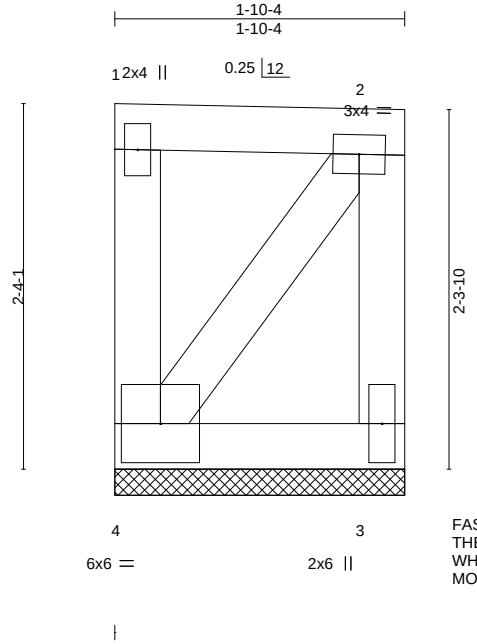

Scale = 1:14.7

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-44(LC 49)
Max Uplift 4=-422(LC 44), 3=-433(LC 47)
Max Grav 4=459(LC 51), 3=473(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-309/310, 2-3=-504/520
BOT CHORD 3-4=-300/302
WEBS 2-4=-585/589

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=422, 3=433.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B18	Blocking	1	1	I52022127
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:51 2022 Page 1

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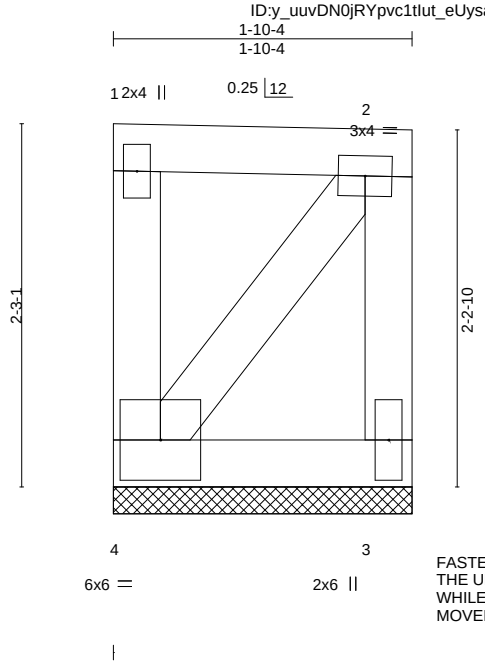

Scale = 1:14.3

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-42(LC 45)
Max Uplift 4=-403(LC 44), 3=-414(LC 47)
Max Grav 4=441(LC 51), 3=454(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-308/309, 2-3=-482/499
BOT CHORD	3-4=-299/302
WEBS	2-4=-567/570

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=403, 3=414.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B19	Blocking	1	1	I52022128
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:52 2022 Page 1
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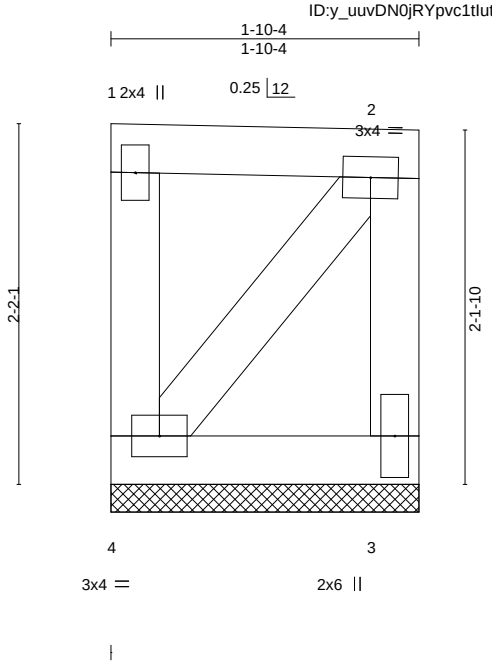

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-40(LC 49)
Max Uplift 4=-384(LC 44), 3=-395(LC 47)
Max Grav 4=422(LC 51), 3=435(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/307, 2-3=-461/477
BOT CHORD 3-4=-299/301
WEBS 2-4=-549/552

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=384, 3=395.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B20	Blocking	2	1	I52022129
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:54 2022 Page 1
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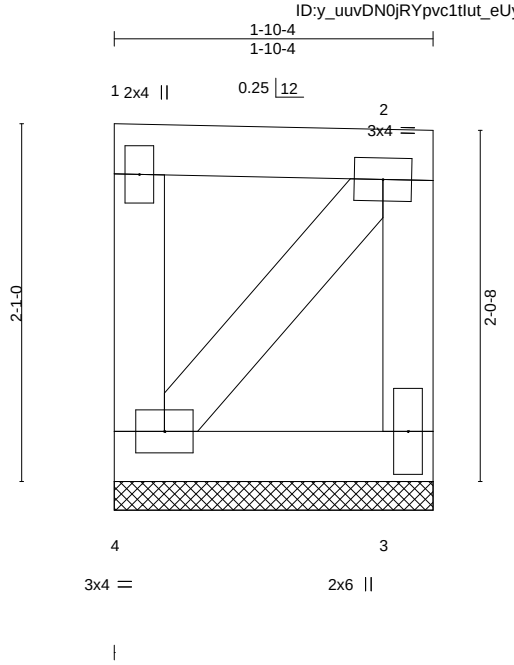

Scale = 1:13.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-38(LC 45)
Max Uplift 4=-364(LC 44), 3=-375(LC 47)
Max Grav 4=401(LC 51), 3=415(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-306/306, 2-3=-437/454
BOT CHORD 3-4=-298/300
WEBS 2-4=-530/533

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=364, 3=375.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B21	Blocking	2	1	I52022130
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:55 2022 Page 1
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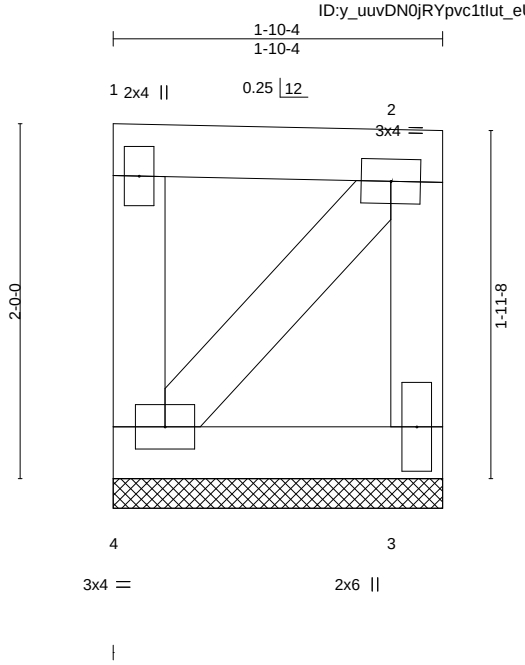

Scale = 1:13.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-36(LC 45)
Max Uplift 4=-345(LC 44), 3=-356(LC 47)
Max Grav 4=383(LC 51), 3=396(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-305/305, 2-3=-416/433
BOT CHORD 3-4=-297/299
WEBS 2-4=-513/517

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=345, 3=356.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B22	Blocking	1	1	I52022131
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:56 2022 Page 1
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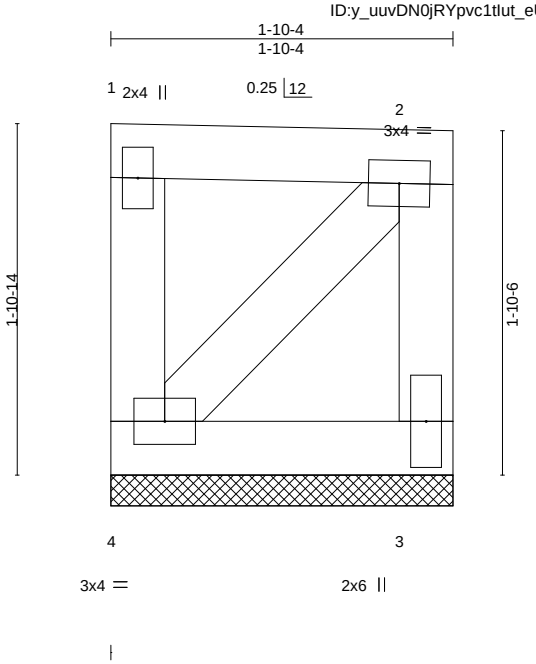

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-34(LC 49)
Max Uplift 4=-324(LC 44), 3=-336(LC 47)
Max Grav 4=362(LC 51), 3=375(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-303/304, 2-3=-393/410
BOT CHORD 3-4=-296/298
WEBS 2-4=-495/498

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=324, 3=336.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B23	Blocking	1	1	I52022132
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:57 2022 Page 1
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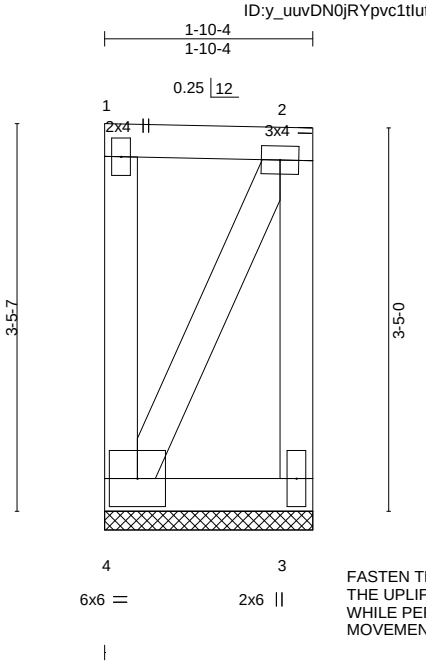

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FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-67(LC 45)
Max Uplift 4=-685(LC 44), 3=-695(LC 47)
Max Grav 4=721(LC 51), 3=736(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-324/326, 2-3=-816/831
BOT CHORD 3-4=-311/314
WEBS 2-4=-863/868

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=685, 3=695.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B24	Blocking	2	1	I52022133
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:58 2022 Page 1
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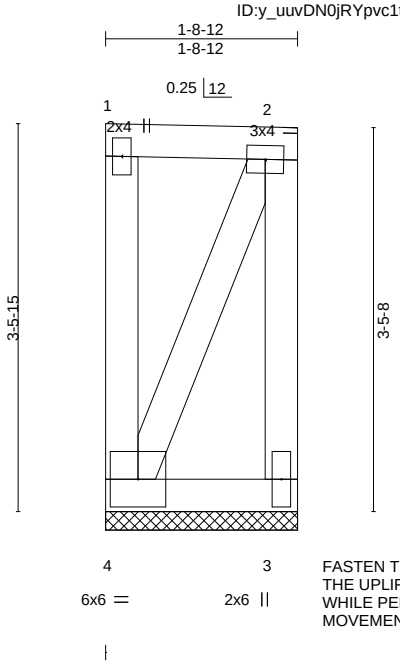

Scale = 1:20.8

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-12, 3=1-8-12
Max Horz 4=-68(LC 45)
Max Uplift 4=-702(LC 44), 3=-711(LC 47)
Max Grav 4=736(LC 51), 3=749(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-302/305, 2-3=-839/853
BOT CHORD 3-4=-289/292
WEBS 2-4=-877/882

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=702, 3=711.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B25	Blocking	2	1	I52022134
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:43:59 2022 Page 1
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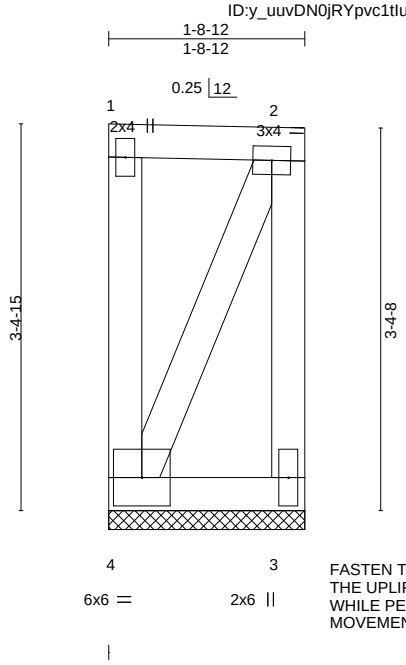

Scale = 1:20.3

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-12, 3=1-8-12
Max Horz 4=-67(LC 49)
Max Uplift 4=-681(LC 44), 3=-691(LC 47)
Max Grav 4=715(LC 51), 3=728(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-301/303, 2-3=-813/827
BOT CHORD 3-4=-288/291
WEBS 2-4=-853/857

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=681, 3=691.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B26	Blocking	1	1	I52022135
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:00 2022 Page 1
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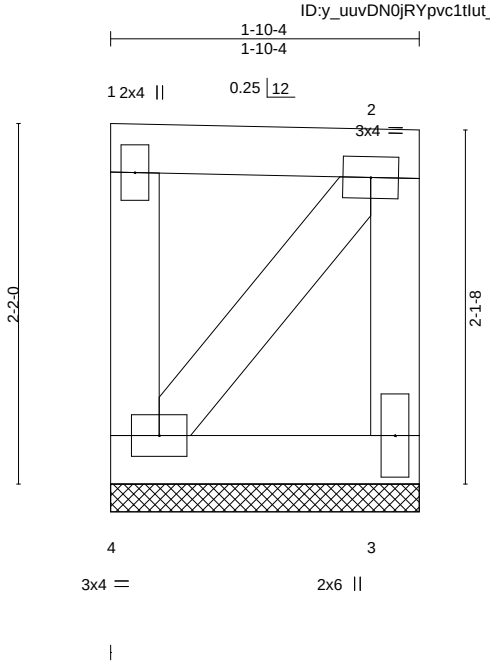

Scale = 1:13.8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-40(LC 45)
Max Uplift 4=-383(LC 44), 3=-394(LC 47)
Max Grav 4=421(LC 51), 3=434(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/307, 2-3=-459/476
BOT CHORD 3-4=-299/301
WEBS 2-4=-548/551

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=383, 3=394.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B27	Blocking	1	1	I52022136
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:01 2022 Page 1
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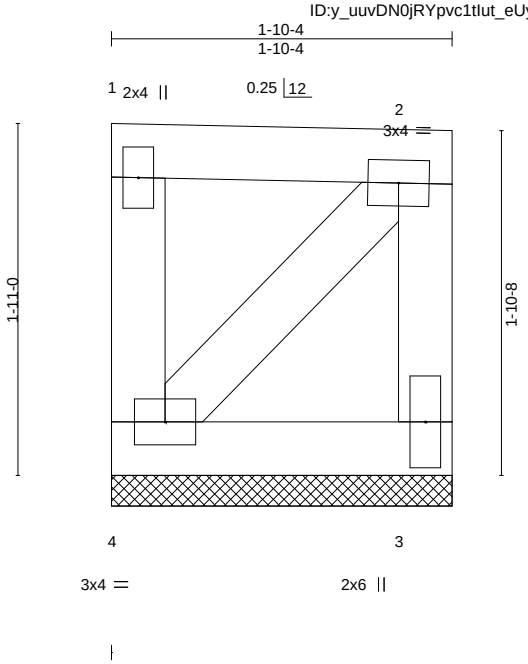

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-35(LC 48)
Max Uplift 4=-327(LC 44), 3=-338(LC 47)
Max Grav 4=365(LC 51), 3=378(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-304/304, 2-3=-396/413
BOT CHORD 3-4=-296/298
WEBS 2-4=-498/501

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=327, 3=338.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B28	Blocking	1	1	I52022137
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:02 2022 Page 1
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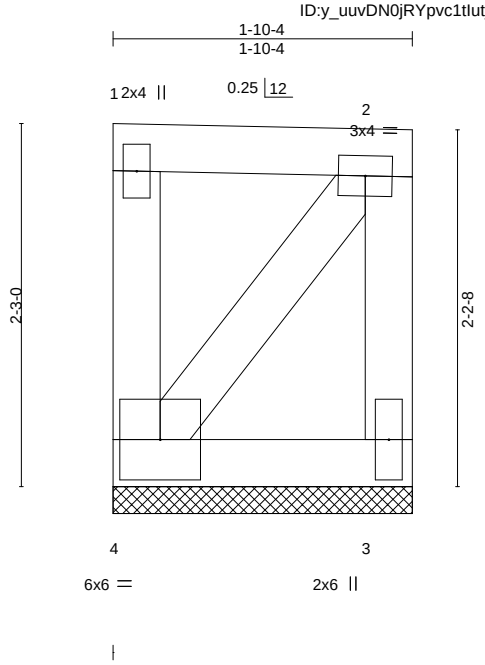

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-42(LC 44)
Max Uplift 4=-402(LC 44), 3=-413(LC 47)
Max Grav 4=439(LC 51), 3=453(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-308/309, 2-3=-481/497
BOT CHORD 3-4=-299/302
WEBS 2-4=-566/569

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=402, 3=413.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B29	Blocking	1	1	I52022138
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:03 2022 Page 1
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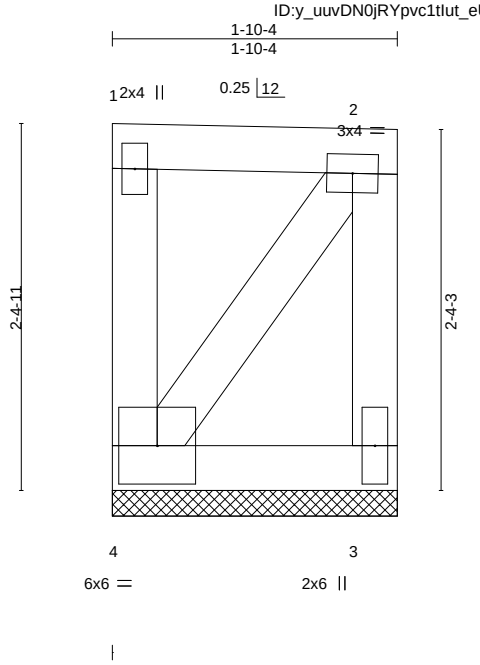

Scale = 1:15.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-45(LC 45)
Max Uplift 4=-433(LC 44), 3=-444(LC 47)
Max Grav 4=471(LC 51), 3=484(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-310/311, 2-3=-517/533
BOT CHORD 3-4=-301/303
WEBS 2-4=-596/600

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=433, 3=444.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B30	Blocking	1	1	I52022139
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:06 2022 Page 1
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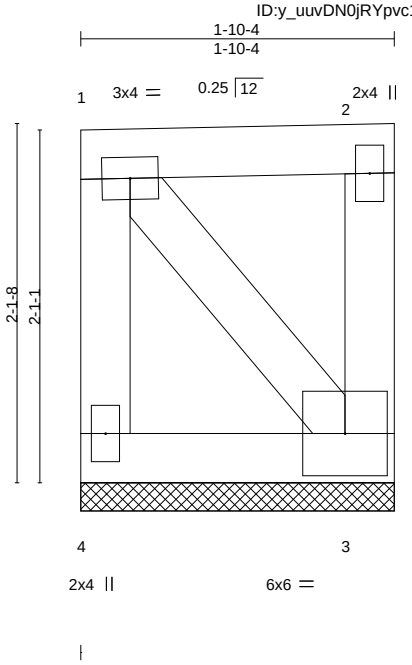

Scale = 1:13.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=39(LC 46)
Max Uplift 4=-385(LC 44), 3=-374(LC 47)
Max Grav 4=425(LC 51), 3=411(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-409/394, 1-2=-300/301
BOT CHORD 3-4=-345/345
WEBS 1-3=-544/547

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=385, 3=374.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B31	Blocking	1	1	I52022140
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:08 2022 Page 1
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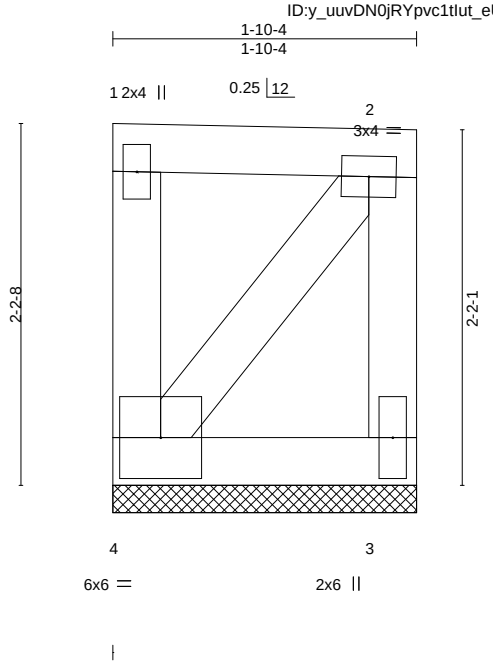

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-41(LC 44)
Max Uplift 4=-393(LC 44), 3=-404(LC 47)
Max Grav 4=430(LC 51), 3=444(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/308, 2-3=-470/487
BOT CHORD 3-4=-299/301
WEBS 2-4=-557/560

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=393, 3=404.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B32	Blocking	1	1	I52022141
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:10 2022 Page 1
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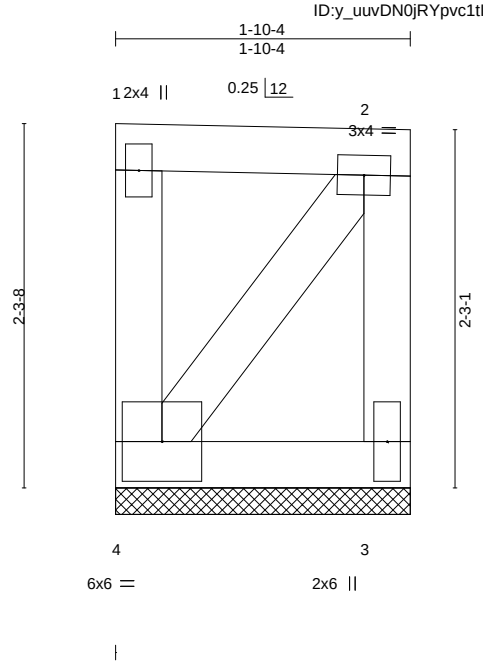

Scale = 1:14.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-43(LC 49)
Max Uplift 4=-411(LC 44), 3=-423(LC 47)
Max Grav 4=449(LC 51), 3=462(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-309/309, 2-3=-492/508
BOT CHORD 3-4=-300/302
WEBS 2-4=-575/578

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=411, 3=423.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B33	Blocking	2	1	I52022142
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:11 2022 Page 1
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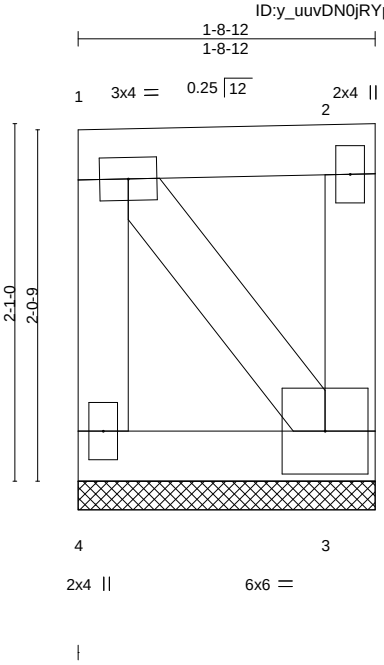

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-12, 3=1-8-12
Max Horz 4=38(LC 46)
Max Uplift 4=-377(LC 44), 3=-367(LC 47)
Max Grav 4=414(LC 51), 3=402(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-400/386, 1-2=-277/277
BOT CHORD	3-4=-321/321
WEBS	1-3=-522/525

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=377, 3=367.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B34	Blocking	1	1	I52022143
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:12 2022 Page 1
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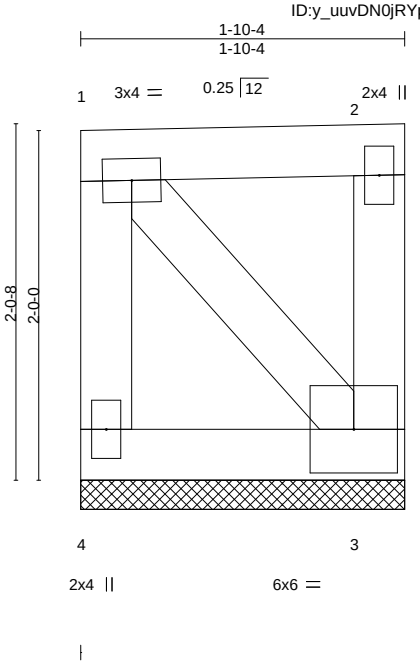

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=37(LC 46)
Max Uplift 4=-366(LC 44), 3=-355(LC 47)
Max Grav 4=406(LC 51), 3=393(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-390/375, 1-2=-299/300
BOT CHORD 3-4=-342/342
WEBS 1-3=-526/530

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=366, 3=355.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.1 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B35	Blocking	2	1	I52022144
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:13 2022 Page 1
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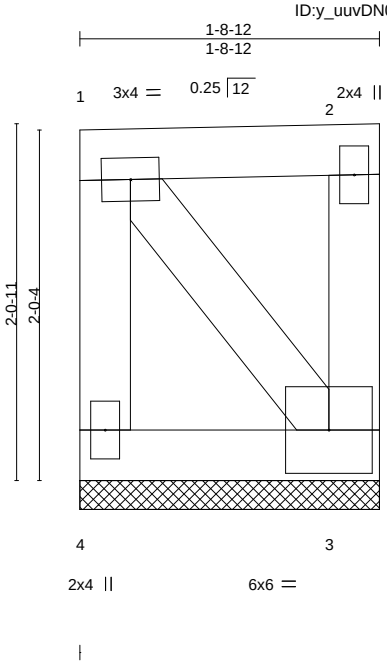

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-12, 3=1-8-12
Max Horz 4=38(LC 46)
Max Uplift 4=-372(LC 44), 3=-362(LC 47)
Max Grav 4=409(LC 51), 3=397(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-395/381, 1-2=-277/277
BOT CHORD	3-4=-320/320
WEBS	1-3=-517/520

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=372, 3=362.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-12 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	B36	Blocking	1	1	I52022145
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:14 2022 Page 1
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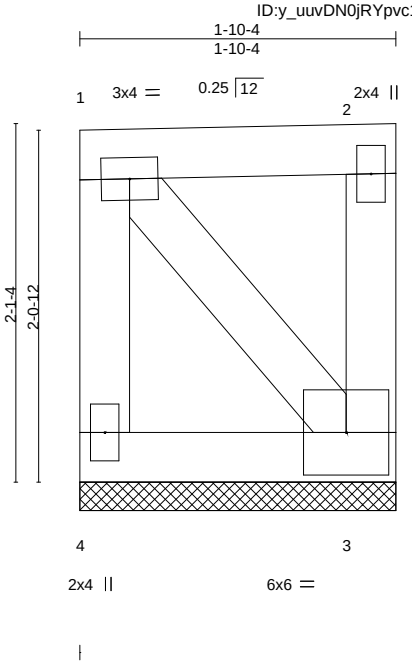

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=39(LC 46)
Max Uplift 4=-380(LC 44), 3=-369(LC 47)
Max Grav 4=420(LC 51), 3=407(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-404/389, 1-2=-300/300
BOT CHORD 3-4=-344/344
WEBS 1-3=-539/542

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=380, 3=369.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	GE1	GABLE	2	1	I52022146
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:22 2022 Page 1
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28-7-4
28-7-4

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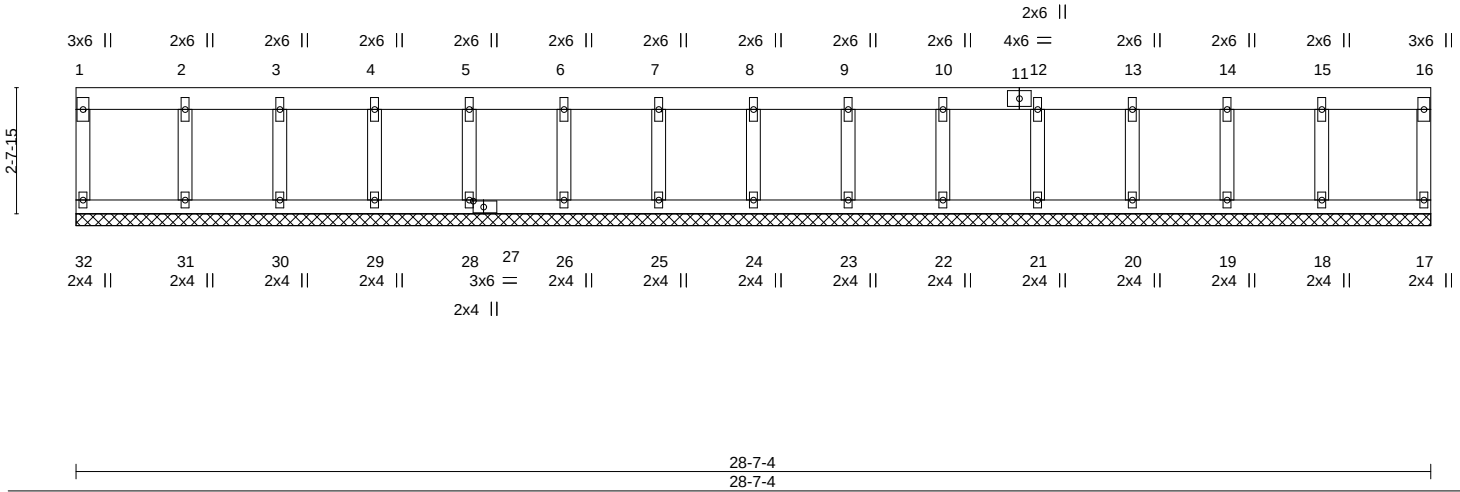

28-7-4
28-7-4

Plate Offsets (X,Y)-- [27:0-2-10,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-7-4.
(lb) - Max Horz 32=-49(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 32, 17, 31, 18
Max Grav All reactions 250 lb or less at joint(s) 32, 17, 24, 25, 26, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 17, 31, 18.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	GR1	Roof Special Girder	1	2	I52022147
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:32 2022 Page 1
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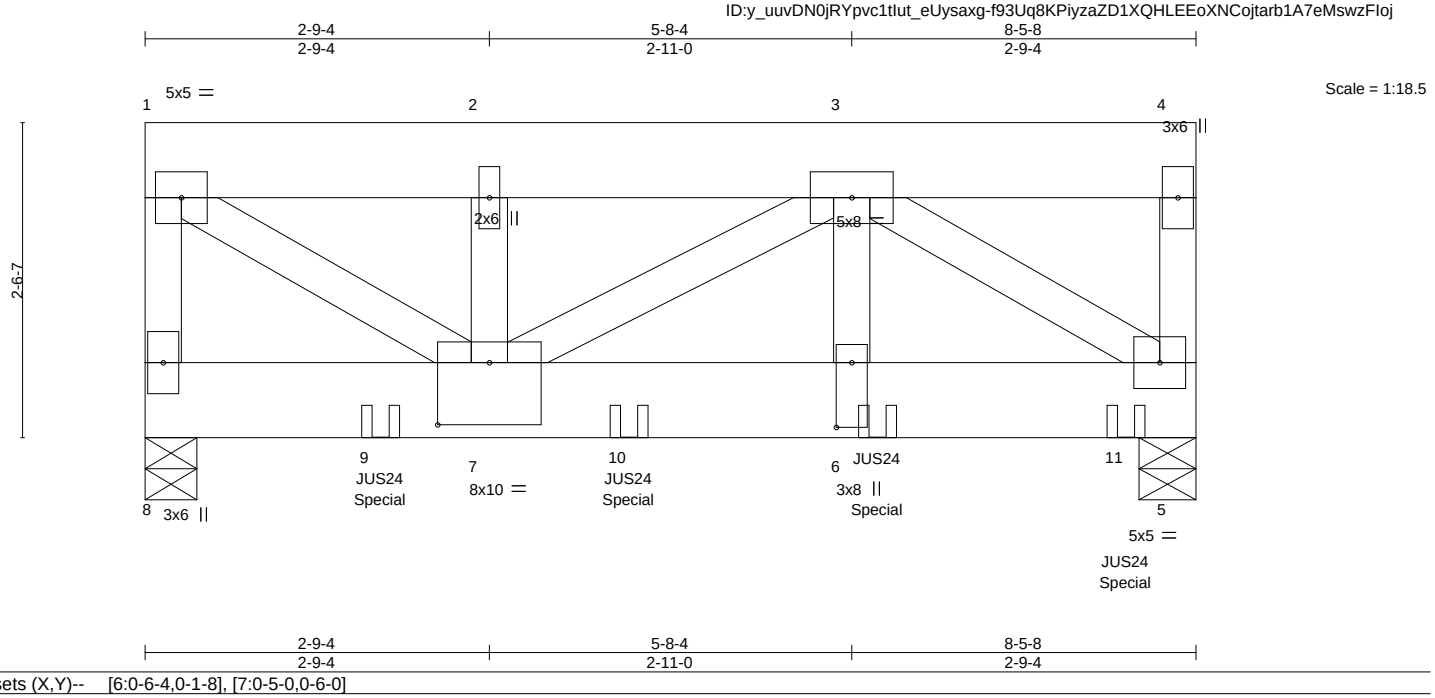

Plate Offsets (X,Y)-- [6:0-6-4,0-1-8], [7:0-5-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x8 SP 2400F 2.0E
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-0, 5=0-5-8
Max Horz 8=-41(LC 11)
Max Grav 8=3417(LC 1), 5=4507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-2930/0, 1-2=-3619/0, 2-3=-3619/0
BOT CHORD 6-7=0/3563, 5-6=0/3563
WEBS 1-7=0/4493, 3-6=0/2541, 3-5=-4424/0

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-12 from the left end to 7-10-12 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-1794(F=-244, B=-1550) 9=-1794(F=-244, B=-1550) 10=-1794(F=-244, B=-1550) 11=-1806(F=-250, B=-1556)

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J1	Jack-Closed	5	1	I52022148
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:33 2022 Page 1
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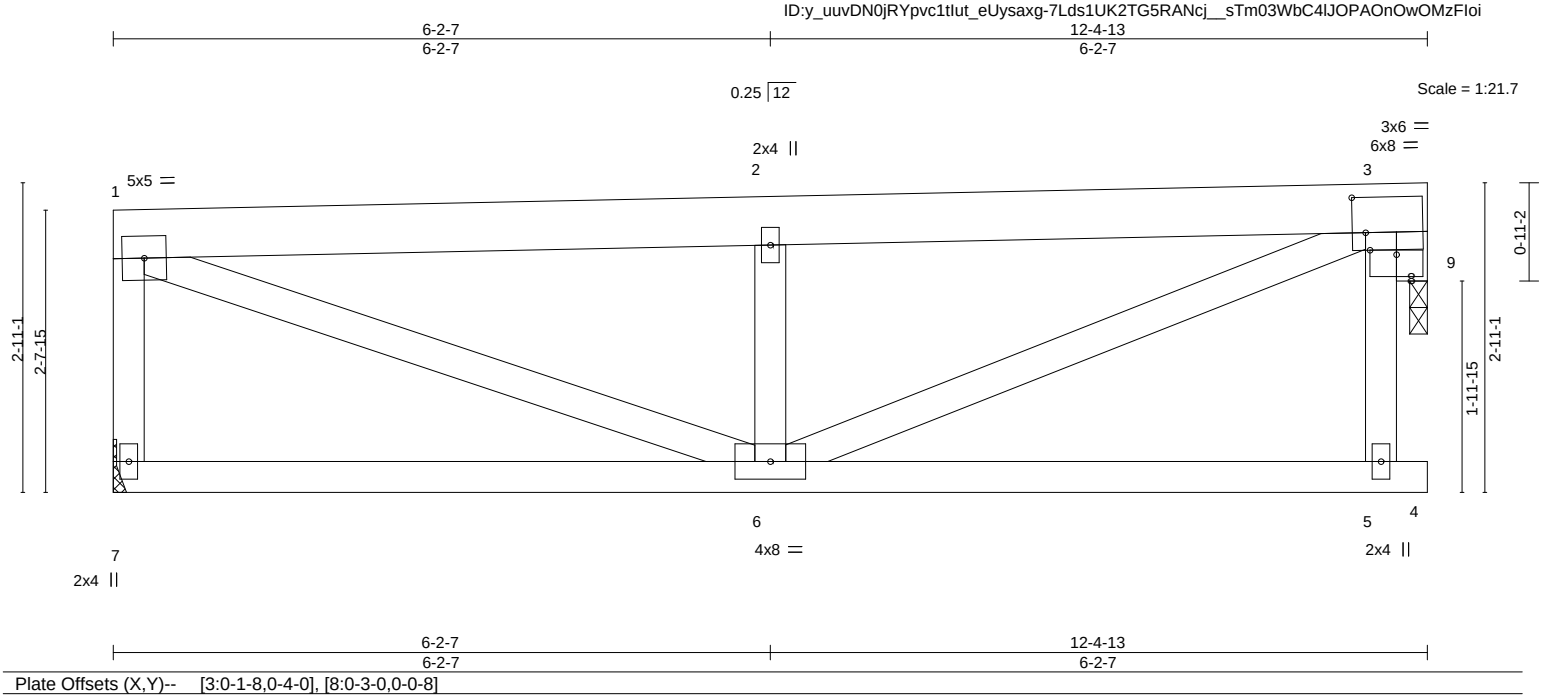

Plate Offsets (X,Y)-- [3:0-1-8,0-4-0], [8:0-3-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 75 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 9=0-2-0
Max Horz 7=48(LC 12)
Max Grav 7=589(LC 21), 9=564(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-540/252, 1-2=-886/336, 2-3=-889/344
WEBS 1-6=-363/944, 2-6=-546/347, 3-6=-354/880, 3-9=-652/252

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J2	Jack-Closed	3	1	I52022149
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:34 2022 Page 1
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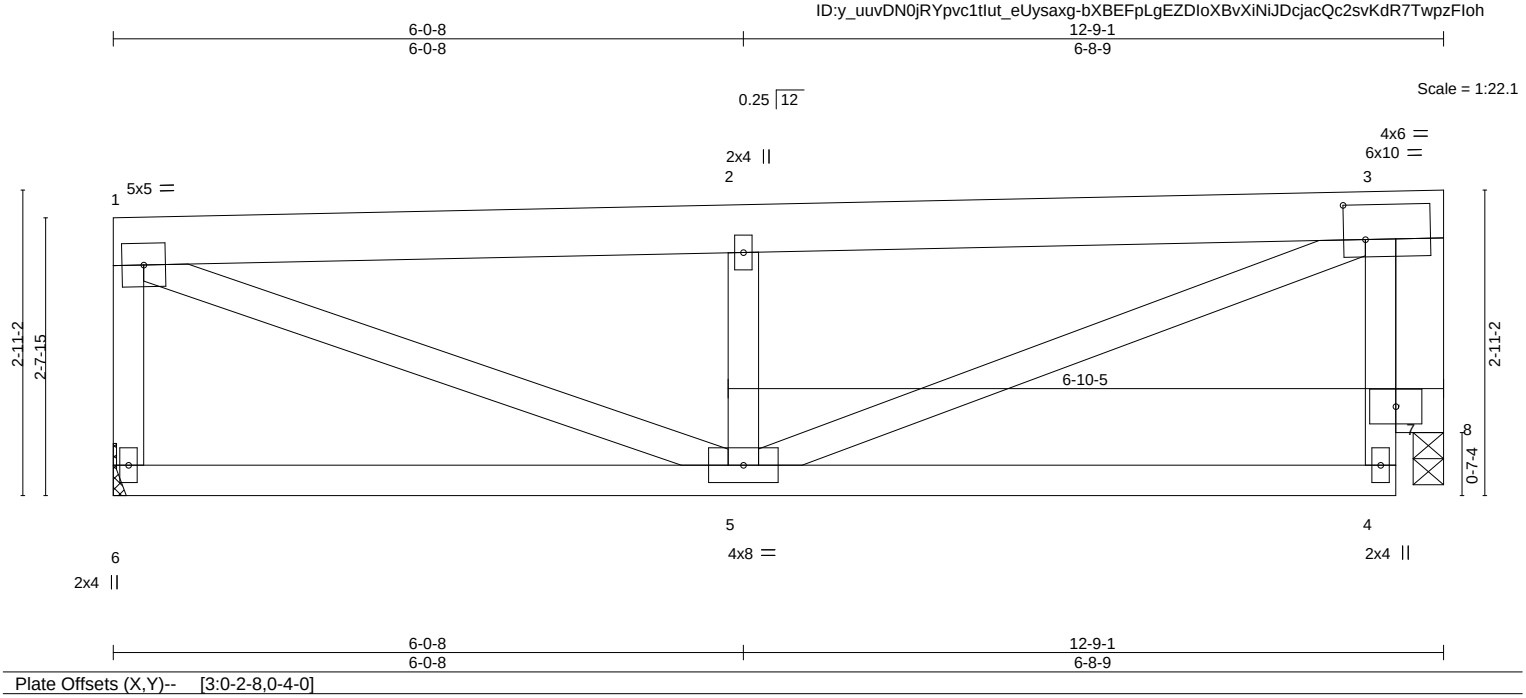

Plate Offsets (X,Y)-- [3:0-2-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	4-5	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 80 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 8=0-3-8
Max Horz 6=-38(LC 13)
Max Grav 6=603(LC 22), 8=560(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-557/249, 1-2=-908/341, 2-3=-910/350
WEBS 1-5=-357/970, 2-5=-511/325, 3-5=-296/793, 3-8=-592/231

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J3	Jack-Closed	1	1	I52022150
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:35 2022 Page 1
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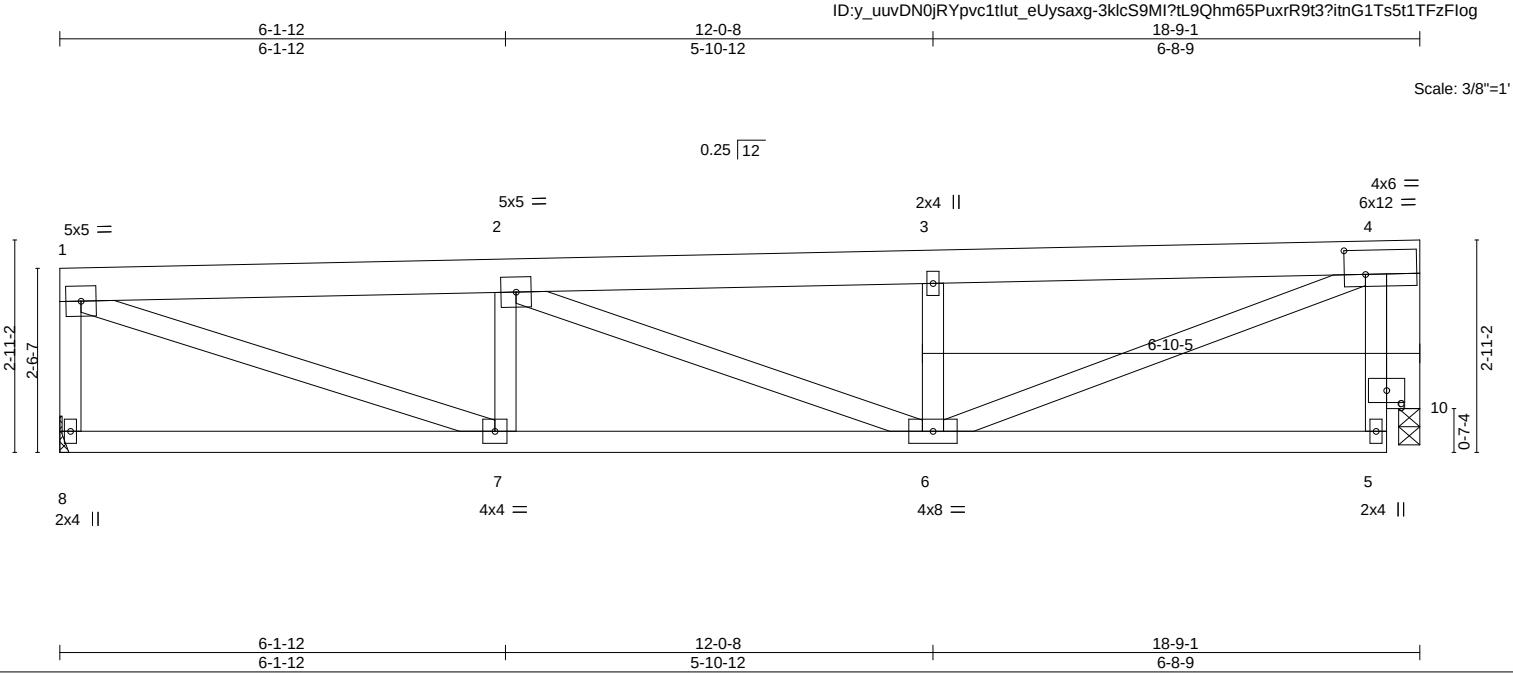

Plate Offsets (X,Y)-- [4:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.13	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 114 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-1-8 oc bracing.

REACTIONS. (size) 8=Mechanical, 10=0-3-8
Max Horz 8=36(LC 12)
Max Grav 8=893(LC 22), 10=850(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-842/282, 1-2=-1692/496, 2-3=-1663/474, 3-4=-1663/481
BOT CHORD 6-7=-519/1689
WEBS 1-7=-513/1795, 2-7=-484/254, 3-6=-447/234, 4-6=-432/1536, 4-10=-893/264

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J4	Jack-Closed	17	1	I52022151
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:36 2022 Page 1
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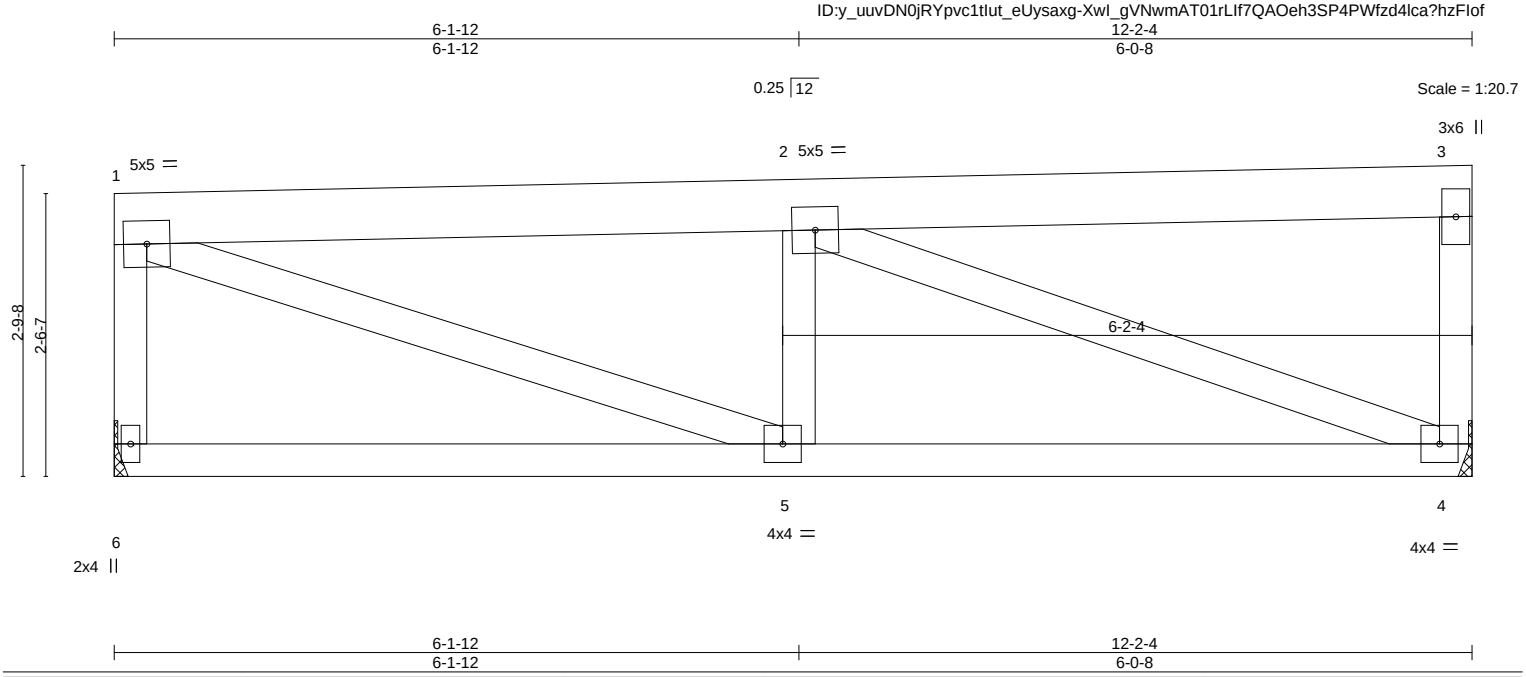

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 73 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-4-3 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=52(LC 12)
Max Grav 6=576(LC 21), 4=576(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-6=-528/251, 1-2=-898/345
BOT CHORD	4-5=-388/895
WEBS	1-5=-381/951, 2-4=-960/396

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J5	Jack-Closed	70	1	I52022152
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:36 2022 Page 1
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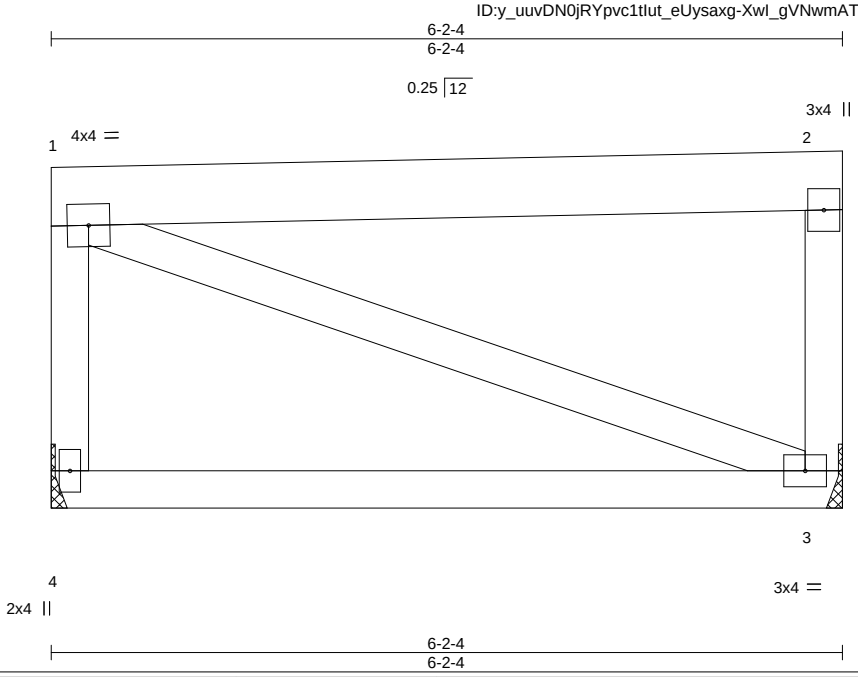

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	3-4	>976	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=52(LC 12)
Max Grav 4=285(LC 21), 3=285(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J6	Jack-Closed	4	1	I52022153
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:37 2022 Page 1
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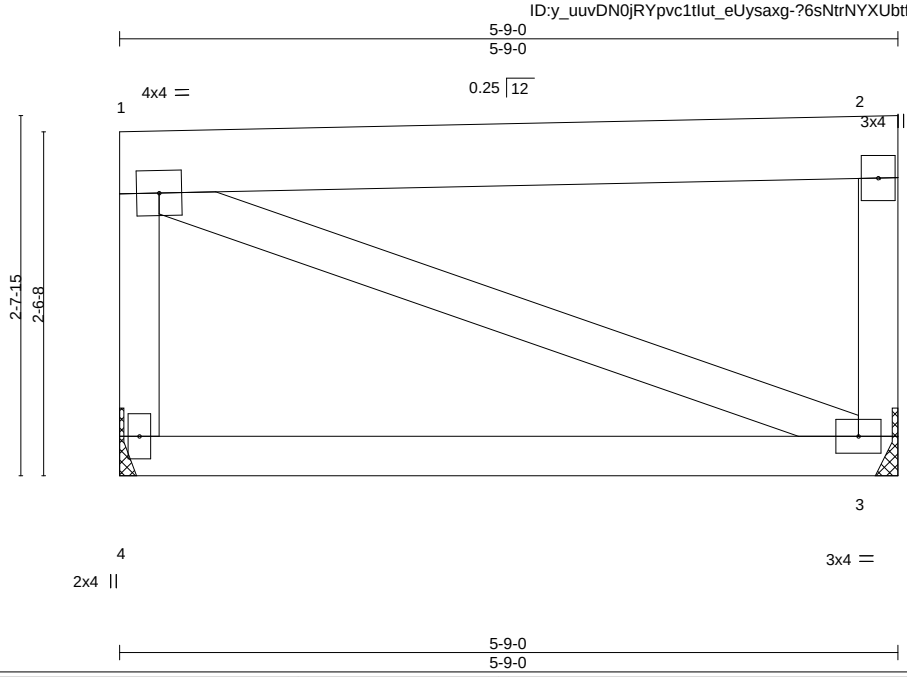

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=49(LC 12)
Max Grav 4=264(LC 21), 3=264(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	J6S	Roof Special Structural Gable	2	1	I52022154
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:38 2022 Page 1
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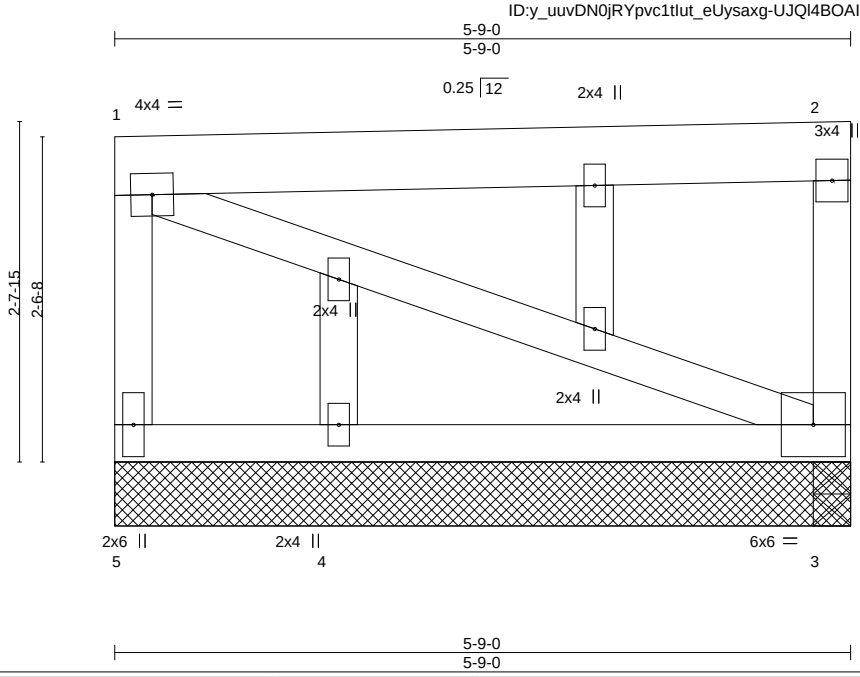

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.01	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-7-14 oc bracing.

REACTIONS. All bearings 5-9-0.
(lb) - Max Horz 5=49(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) except 5=-488(LC 44), 3=-430(LC 53)
Max Grav All reactions 250 lb or less at joint(s) 3, 4 except 5=537(LC 65), 3=547(LC 64)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-5=-546/607, 1-2=-1009/1006
BOT CHORD	4-5=-404/399, 3-4=-1097/1093
WEBS	1-3=-1233/1241

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 5 and 430 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 5-9-0 for 200.0 plf.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M1	Monopitch	18	1	I52022155
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:39 2022 Page 1
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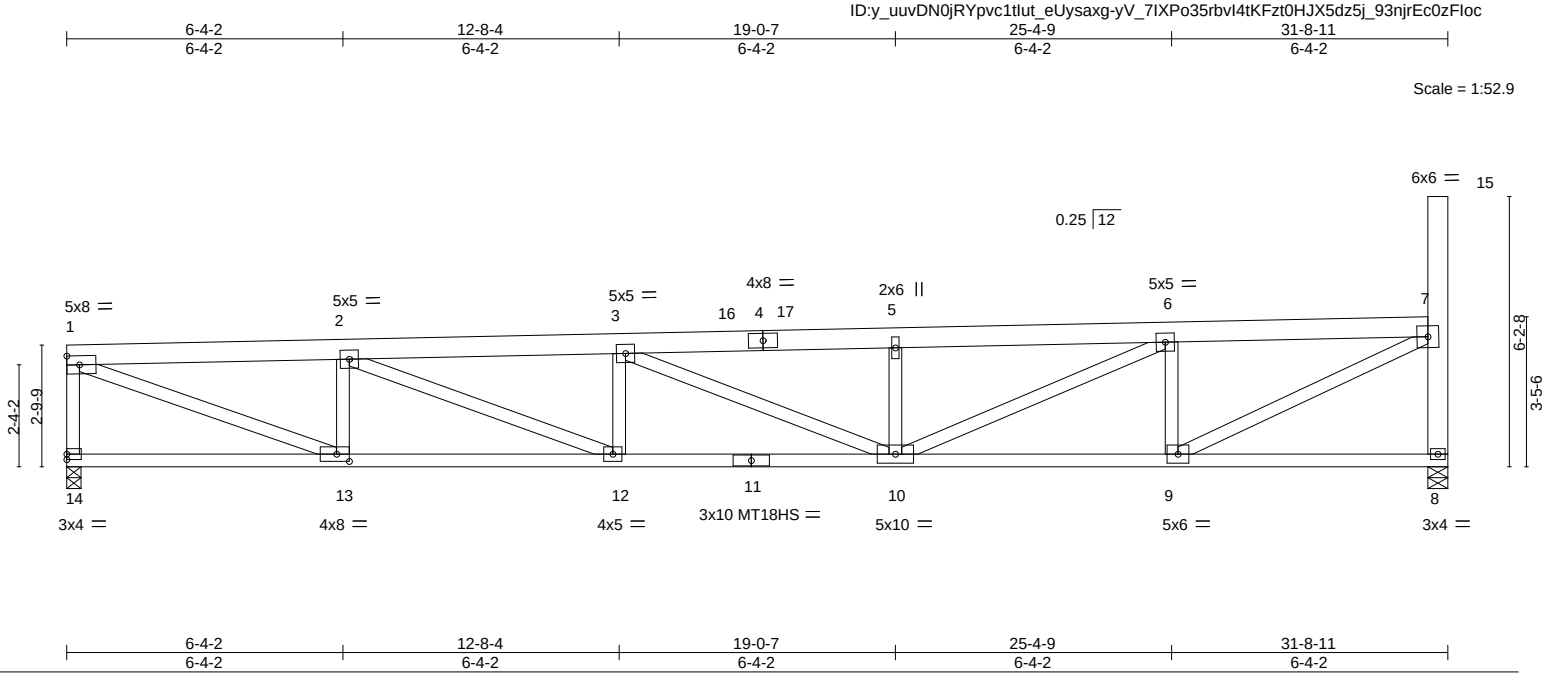

Plate Offsets (X,Y)-- [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.27	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.55	10-12	>686	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-7 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=172(LC 14)
Max Grav 14=1570(LC 21), 8=1783(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1506/305, 1-2=-3167/552, 2-3=-4509/811, 3-5=-4335/819, 5-6=-4335/824, 6-7=-2843/614, 7-8=-1719/320
BOT CHORD 13-14=-263/165, 12-13=-699/3162, 10-12=-842/4503, 9-10=-434/2836
WEBS 1-13=-598/3326, 2-13=-1087/302, 2-12=-274/1446, 3-12=-415/177, 5-10=-492/183, 6-10=-349/1647, 6-9=-1253/314, 7-9=-520/3059

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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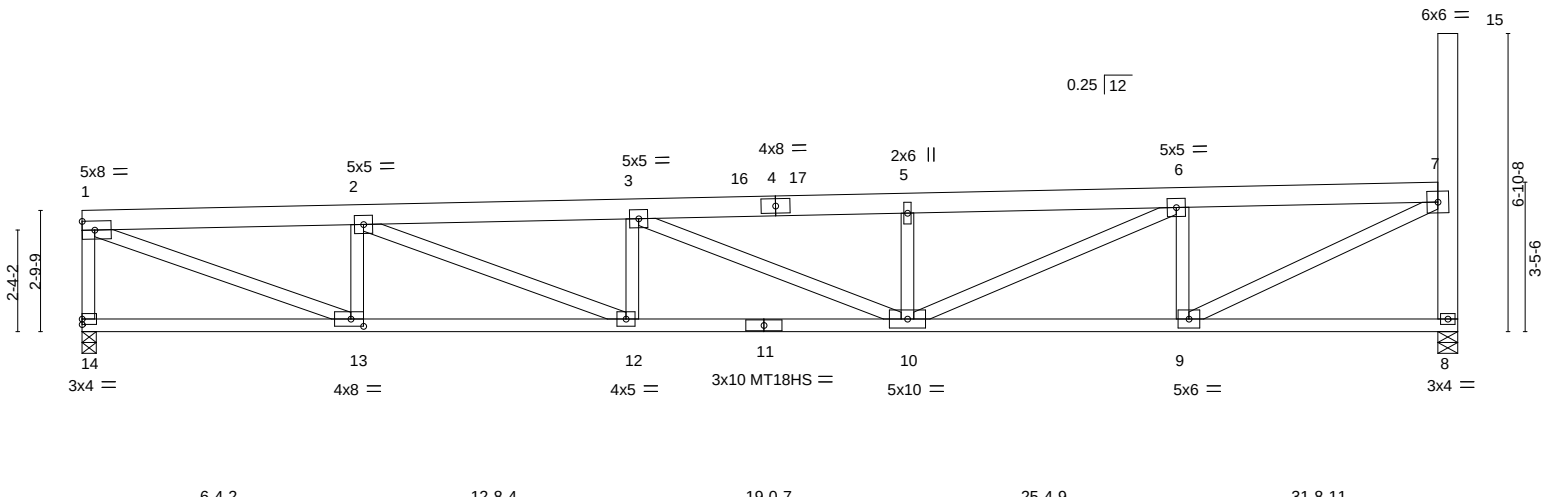
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M1A	Monopitch	3	1	I52022156
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:10 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-YTMro7nFmdlB73xqeG18mp5qH6YNU?qdv1rNCjzFIo7

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:53.1



6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.27	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.55	10-12	>686	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=196(LC 12)
Max Grav 14=1570(LC 21), 8=1783(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1506/311, 1-2=-3167/564, 2-3=-4509/835, 3-5=-4335/853, 5-6=-4335/858, 6-7=-2843/659, 7-8=-1719/328
BOT CHORD 13-14=-300/189, 12-13=-718/3162, 10-12=-844/4503, 9-10=-454/2836
WEBS 1-13=-611/3326, 2-13=-1087/307, 2-12=-286/1446, 3-12=-415/181, 5-10=-492/185, 6-10=-368/1647, 6-9=-1253/314, 7-9=-522/3059

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M1AG	Monopitch Girder	2	1	I52022157
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:11 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-0fwD0TotXxt2kDW0CzYNJ1e?kWw4DR_m8hbwk9zFIo6

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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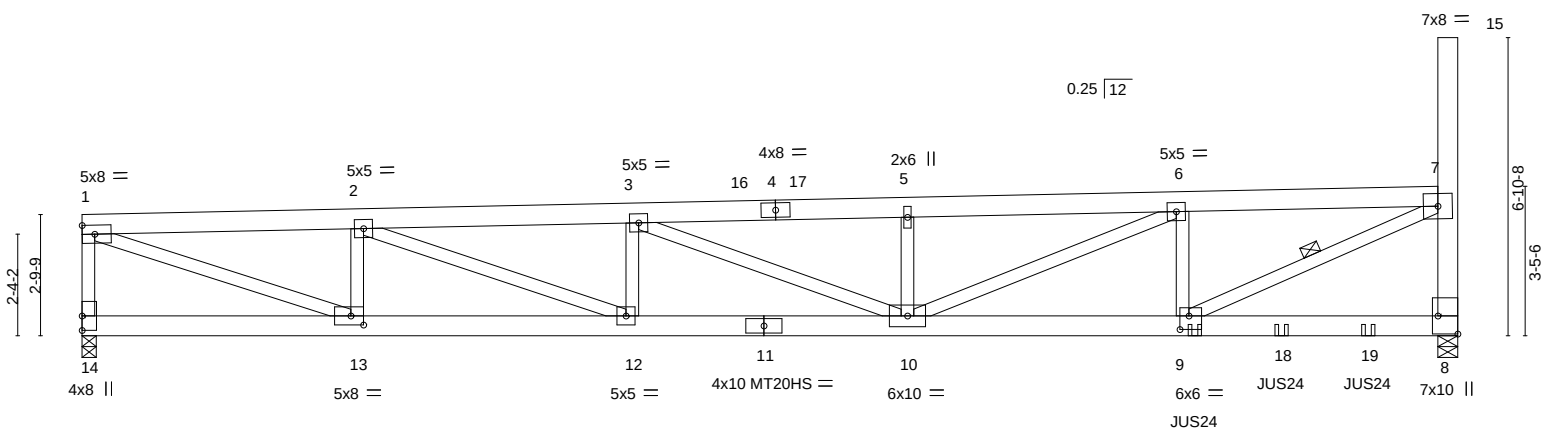

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [8:Edge,0-5-8], [9:0-2-8,0-3-12], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.28	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.54	10-12	>700	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 225 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-7-7 oc bracing.
WEBS	1 Row at midpt 7-9

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=194(LC 12)
Max Uplift 14=-104(LC 11), 8=-941(LC 15)
Max Grav 14=1625(LC 21), 8=2357(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1545/449, 1-2=-3385/937, 2-3=-4902/1559, 3-5=-4809/1850, 5-6=-4809/1856, 6-7=-3693/2022, 7-8=-1928/927
BOT CHORD	13-14=-308/190, 12-13=-1087/3379, 10-12=-1562/4896, 9-10=-1818/3551
WEBS	1-13=-993/3526, 2-13=-1139/446, 2-12=-661/1627, 3-12=-457/295, 3-10=-487/437, 5-10=-489/201, 6-10=-797/1652, 6-9=-1179/520, 7-9=-1907/3714

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=104, 8=941.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 25-7-15 from the left end to 29-7-15 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 9=231(B) 18=230(B) 19=229(B)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 9=231(B) 18=230(B) 19=229(B)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=231(B) 18=230(B) 19=229(B)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=231(B) 18=230(B) 19=229(B)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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16023 Swingley Ridge Rd
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 9=-146(B) 18=-146(B) 19=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 9=-372(B) 18=-371(B) 19=-371(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 9=-372(B) 18=-371(B) 19=-371(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 9=-372(B) 18=-371(B) 19=-371(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 9=-372(B) 18=-371(B) 19=-371(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

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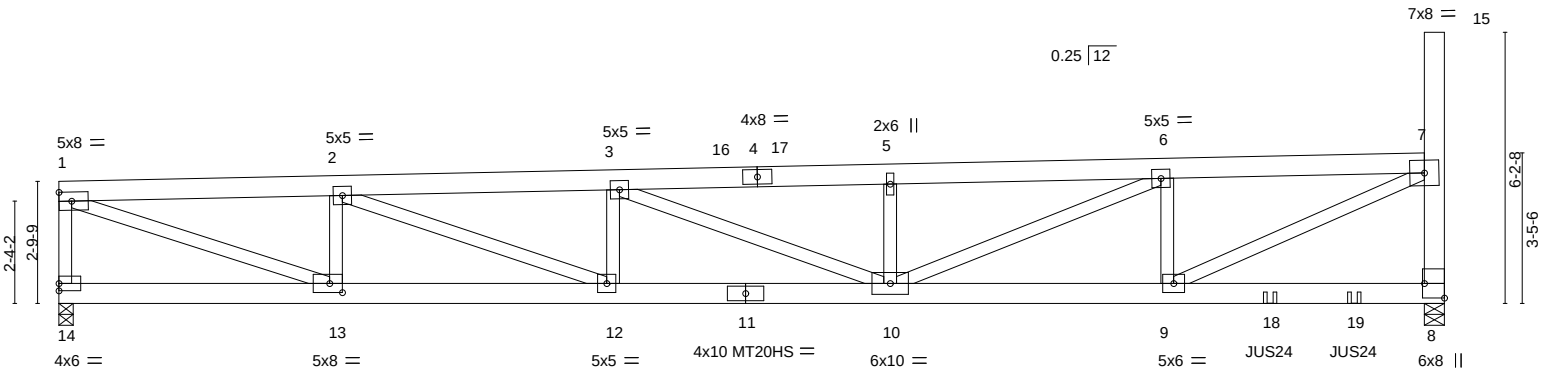
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M1G	Monopitch Girder	1	1	I52022158
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:13 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-y11_R9p73Y8m_XgPKOarOSjLSKdqhL53b?41p2zFIo4

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.8



6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [8:Edge,0-5-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.27	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.52	10-12	>725	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-5 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=170(LC 12)
Max Uplift 14=-9(LC 11), 8=-489(LC 15)
Max Grav 14=1596(LC 21), 8=2049(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1517/354, 1-2=-3313/700, 2-3=-4764/1101, 3-5=-4609/1195, 5-6=-4609/1200, 6-7=-3176/1182, 7-8=-1812/550
BOT CHORD	13-14=-268/163, 12-13=-844/3307, 10-12=-1128/4758, 9-10=-1004/3168
WEBS	1-13=-743/3450, 2-13=-1112/356, 2-12=-424/1556, 3-12=-431/212, 3-10=-270/210, 5-10=-487/190, 6-10=-584/1574, 6-9=-1204/424, 7-9=-1055/3345

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=489.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-11-2 oc max. starting at 27-8-13 from the left end to 29-7-15 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 18=-146(F) 19=-146(F)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M1S	GABLE	1	1	I52022159
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:16 2022 Page 1
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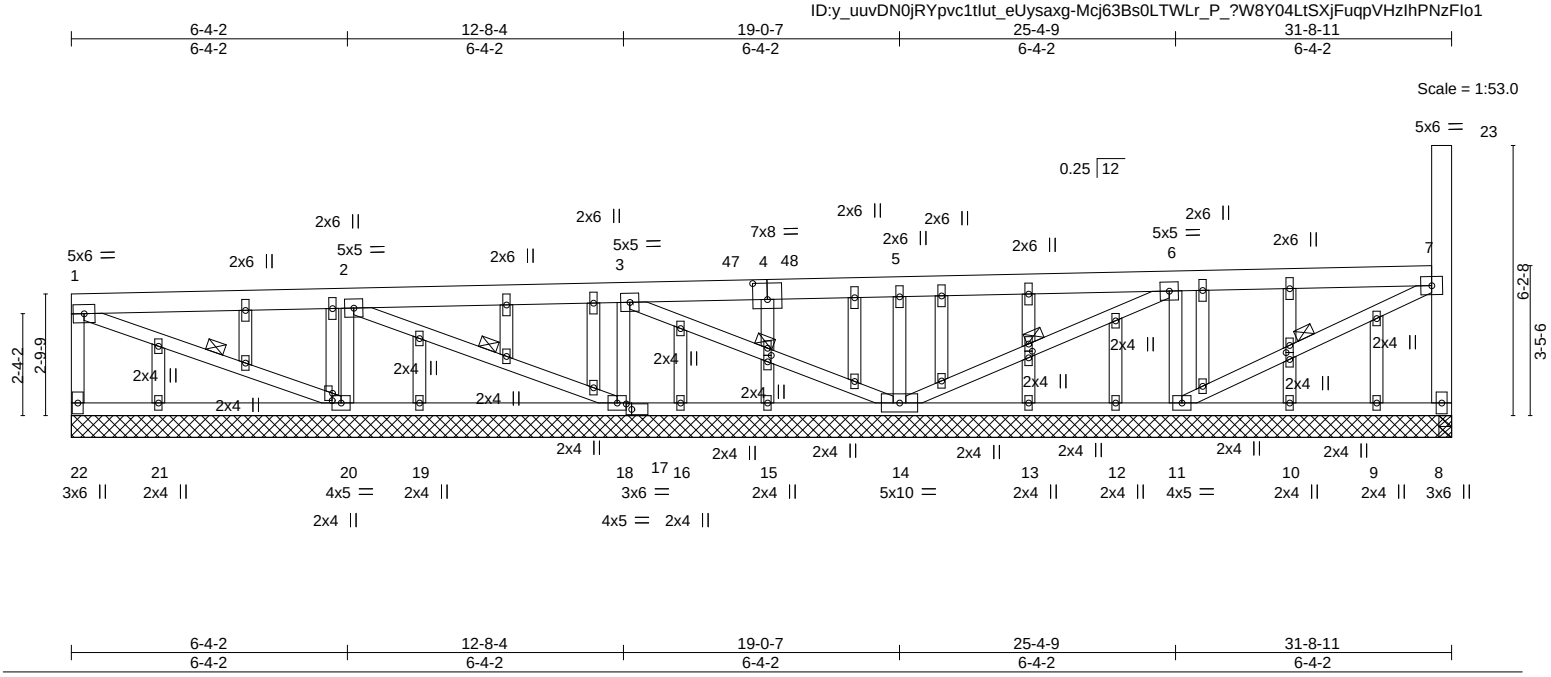

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [17:0-1-8,0-1-8], [20:0-2-0,0-0-2], [34:0-1-12,0-1-0], [40:0-1-13,0-1-0], [45:0-1-14,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.00	22	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.01	18-19	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	-0.02	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 241 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-23: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-4 oc bracing.
WEBS	1 Row at midpt 1-20, 2-18, 3-14, 6-14, 7-11

REACTIONS. All bearings 31-8-11.
(lb) - Max Horz 22=172(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 20, 18, 14, 16, 9 except 22=-627(LC 44), 8=-681(LC 47), 11=-193(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 21, 19, 15, 13, 12, 10, 9 except 22=681(LC 51), 8=797(LC 36), 8=355(LC 1), 20=592(LC 21), 18=580(LC 21), 14=595(LC 21), 11=664(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-665/612, 1-2=-1456/1437, 2-3=-1519/1471, 3-5=-1424/1371, 5-6=-1341/1300, 6-7=-1460/1419, 7-8=-754/761
BOT CHORD	21-22=-615/490, 20-21=-1484/1359, 19-20=-337/267, 18-19=-1275/1205, 15-16=-634/596, 14-15=-1241/1203, 13-14=-1237/1218, 12-13=-644/625, 10-11=-1236/1269, 9-10=-711/745, 8-9=-311/345
WEBS	1-20=-1529/1587, 2-20=-847/707, 2-18=-1382/1404, 3-18=-795/693, 3-14=-1296/1286, 5-14=-480/185, 6-14=-1339/1318, 6-11=-864/695, 7-11=-1533/1504

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 18, 14, 16, 9 except (jt=lb) 22=627, 8=681, 11=193.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

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NOTES-

11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-11 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-79, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-22=-20
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-22=-20
   Horz: 1-22=13, 1-7=-9, 7-8=3, 7-23=27
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-22=-20
   Horz: 1-22=-3, 1-7=-3, 7-8=-13, 7-23=-27
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-22=-20
   Horz: 1-22=10, 1-7=-9, 7-8=2, 7-23=18
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-22=-20
   Horz: 1-22=-2, 1-7=-3, 7-8=-10, 7-23=18
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-22=-20
   Horz: 1-3=7200, 3-47=7200, 47-48=7200, 6-48=7200, 6-7=7200
   Drag: 8-22=-150
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-63, 8-22=-20
   Horz: 1-3=-7200, 3-47=-7200, 47-48=-7200, 6-48=-7200, 6-7=-7200
   Drag: 8-22=150
   Trapezoidal Loads (plf)
   Vert: 6=-63-to-7=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-64, 8-22=-20
Horz: 1-3=7200, 3-47=7200, 47-48=7200, 6-48=7200, 6-7=7200
Drag: 8-22=-150
Trapezoidal Loads (plf)
Vert: 6=-64-to-7=-124

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-70, 8-22=-20
Horz: 1-3=-7200, 3-47=-7200, 47-48=-7200, 6-48=-7200, 6-7=-7200
Drag: 8-22=150
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-130

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 8-22=-20
Horz: 1-3=7200, 3-47=7200, 47-48=7200, 6-48=7200, 6-7=7200
Drag: 8-22=-150
Trapezoidal Loads (plf)
Vert: 6=-36-to-7=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-42, 8-22=-20
Horz: 1-3=-7200, 3-47=-7200, 47-48=-7200, 6-48=-7200, 6-7=-7200
Drag: 8-22=150
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-22=-20
Horz: 1-22=13, 1-3=7191, 3-47=7191, 47-48=7191, 6-48=7191, 6-7=7191, 7-8=3, 7-23=27
Drag: 8-22=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-22=-20
Horz: 1-22=13, 1-3=-7209, 3-47=-7209, 47-48=-7209, 6-48=-7209, 6-7=-7209, 7-8=3, 7-23=27
Drag: 8-22=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-22=-20
Horz: 1-22=-3, 1-3=7197, 3-47=7197, 47-48=7197, 6-48=7197, 6-7=7197, 7-8=-13, 7-23=-27
Drag: 8-22=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-22=-20
Horz: 1-22=-3, 1-3=-7203, 3-47=-7203, 47-48=-7203, 6-48=-7203, 6-7=-7203, 7-8=-13, 7-23=-27
Drag: 8-22=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-22=-20
Horz: 1-22=10, 1-3=7191, 3-47=7191, 47-48=7191, 6-48=7191, 6-7=7191, 7-8=2, 7-23=18
Drag: 8-22=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-22=-20
Horz: 1-22=10, 1-3=-7209, 3-47=-7209, 47-48=-7209, 6-48=-7209, 6-7=-7209, 7-8=2, 7-23=18
Drag: 8-22=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-6=-54, 8-22=-20

Horz: 1-22=-2, 1-3=7197, 3-47=7197, 47-48=7197, 6-48=7197, 6-7=7197, 7-8=-10, 7-23=18

Drag: 8-22=-150

Trapezoidal Loads (plf)

Vert: 6=-54-to-7=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-6=-60, 8-22=-20

Horz: 1-22=-2, 1-3=-7203, 3-47=-7203, 47-48=-7203, 6-48=-7203, 6-7=-7203, 7-8=-10, 7-23=18

Drag: 8-22=150

Trapezoidal Loads (plf)

Vert: 6=-60-to-7=-120

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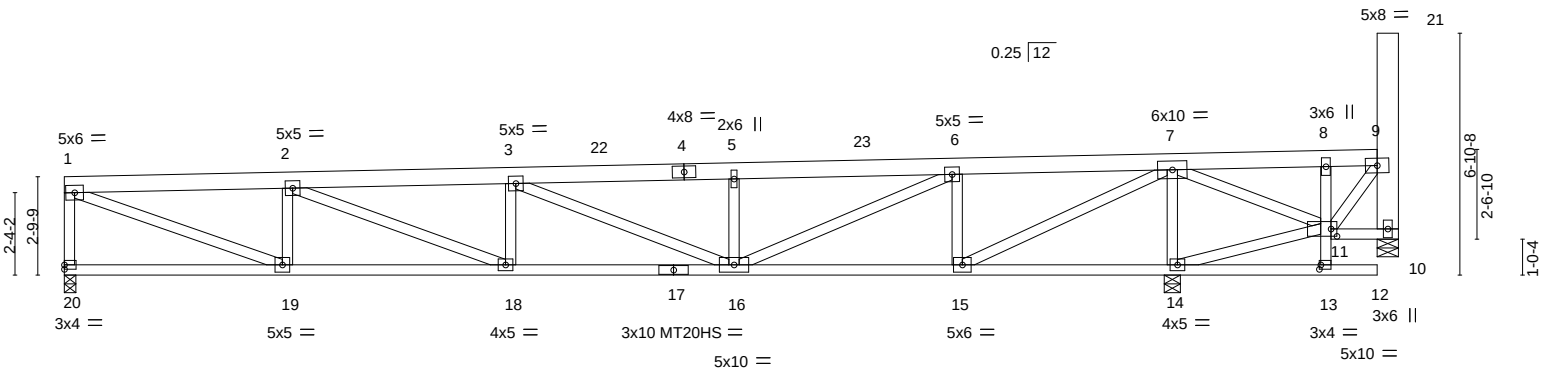
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M2	Monopitch	10	1	I52022160
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:18 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-J?rtUstGt4m34IYM6xA05VRB7LFfMd?olHnoUFzFIo?

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	36-0-1	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-6-2	1-11-0

Scale = 1:65.5



6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	36-0-1	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-6-2	1-11-0

Plate Offsets (X,Y)-- [11:0-2-0,0-2-8], [13:0-0-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.21	16-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.43	16-18	>867	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-21: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-7-13 oc bracing. Except: 10-0-0 oc bracing: 11-13

REACTIONS. (size) 20=0-3-15, 10=0-7-4, 14=0-5-8
Max Horz 20=185(LC 12)
Max Uplift 10=-820(LC 2)
Max Grav 20=1326(LC 21), 10=22(LC 11), 14=3451(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1264/212, 1-2=-2575/348, 2-3=-3347/479, 3-5=-2657/421, 5-6=-2658/426, 6-7=-616/199, 7-8=-395/715, 8-9=-398/716, 9-10=-164/797
BOT CHORD	19-20=-263/173, 18-19=-531/2569, 16-18=-576/3341, 15-16=-143/612, 14-15=-2305/317, 8-11=-319/90
WEBS	1-19=-383/2696, 2-19=-856/223, 2-18=-135/832, 3-16=-748/144, 5-16=-526/159, 6-16=-331/2250, 6-15=-1356/284, 7-15=-457/3265, 7-14=-2790/442, 11-14=-2241/313, 7-11=-276/1768, 9-11=-1091/192

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-7, Corner(3) 22-7-7 to 37-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=820.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-9=-146
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-60-to-9=-117
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-68-to-9=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-39-to-9=-96
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-80, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-80-to-9=-156
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-42-to-9=-118
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=13, 1-9=-9, 9-10=3, 9-21=27
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-9=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=-3, 1-9=-3, 9-10=-13, 9-21=-27
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-9=-114
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=10, 1-9=-9, 9-10=2, 9-21=18
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-9=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=-2, 1-9=-3, 9-10=-10, 9-21=18
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-9=-114
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-9=-146

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Chesterfield, MO 63017

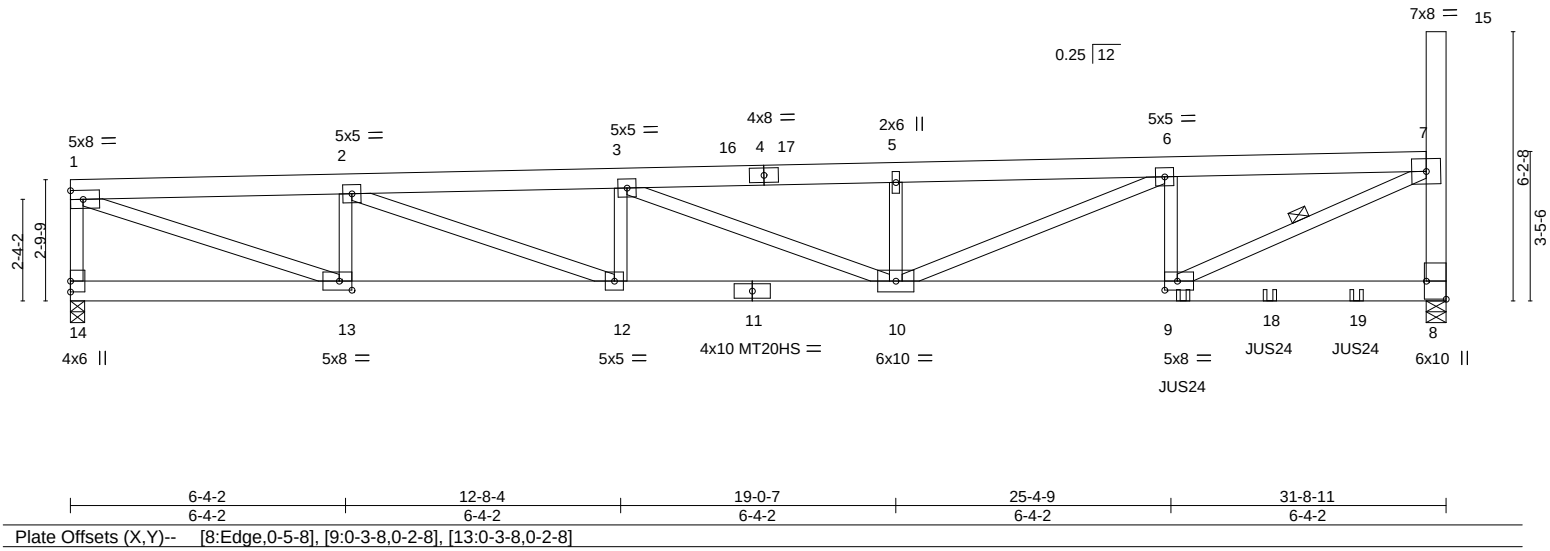
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M2G	Monopitch Girder	1	1	I52022161
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:35 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-JGNl2g4xtJvecvLec0z?H5e6hB6hrIwlfQPCZmzFInk

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:53.1



6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [8:Edge,0-5-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.28	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.54	10-12	>700	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-2-8 oc bracing.
WEBS	1 Row at midpt 7-9

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=170(LC 12)
Max Uplift 14=-70(LC 11), 8=-738(LC 15)
Max Grav 14=1625(LC 21), 8=2200(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1545/415, 1-2=-3385/852, 2-3=-4902/1392, 3-5=-4809/1618, 5-6=-4809/1623, 6-7=-3455/1703, 7-8=-1928/796
BOT CHORD	13-14=-270/165, 12-13=-996/3379, 10-12=-1419/4895, 9-10=-1524/3414
WEBS	1-13=-903/3526, 2-13=-1139/413, 2-12=-574/1627, 3-12=-457/267, 3-10=-415/360, 5-10=-489/195, 6-10=-697/1585, 6-9=-1179/480, 7-9=-1623/3613

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=738.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 25-7-15 from the left end to 29-7-15 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 18,2022

LOAD CASE(S) Standard

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-117(B) 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
      Vert: 9=-146(B) 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
      Vert: 9=172(B) 18=171(B) 19=170(B)
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
      Vert: 9=172(B) 18=171(B) 19=170(B)
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
      Vert: 9=172(B) 18=171(B) 19=170(B)
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
      Vert: 9=172(B) 18=171(B) 19=170(B)
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 9=-146(B) 18=-146(B) 19=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 9=-313(B) 18=-312(B) 19=-312(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 9=-313(B) 18=-312(B) 19=-312(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(B) 18=-312(B) 19=-312(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(B) 18=-312(B) 19=-312(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M3	Monopitch	2	1	I52022162
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:37 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-FfU2TM6BPw9MsDV0kR0TMWjNQ?klJD5b6kuIefzFIni

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	6-5-2

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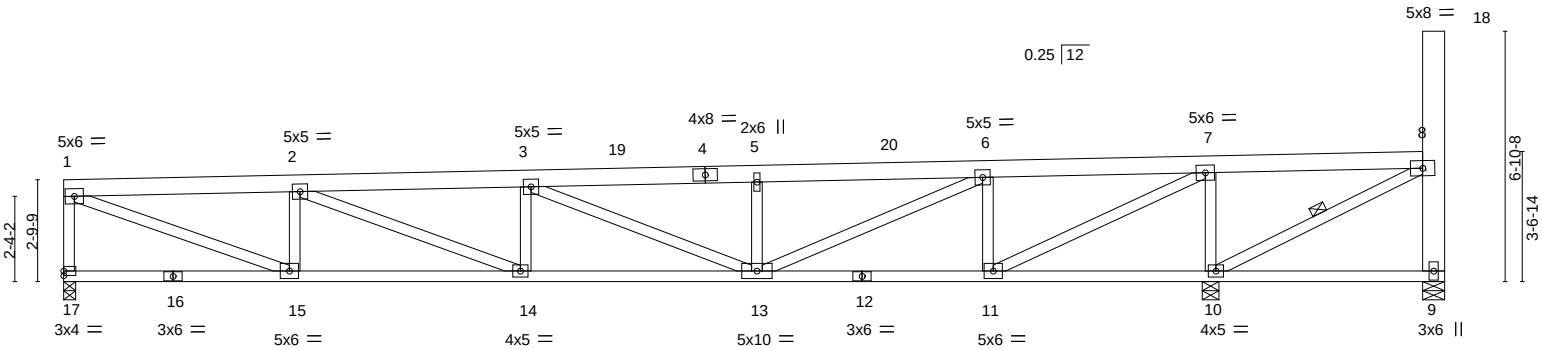

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	6-5-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.21	13-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.44	13-14	>851	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
9-18: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-10-4 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS. (size) 17=0-3-15, 9=0-7-4, 10=0-5-8
Max Horz 17=194(LC 12)
Max Uplift 9=-753(LC 2)
Max Grav 17=1345(LC 21), 9=10(LC 11), 10=3331(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1284/215, 1-2=-2621/357, 2-3=-3437/495, 3-5=-2790/444, 5-6=-2790/449, 6-7=-771/227, 7-8=-457/2077, 8-9=-114/797
BOT CHORD 15-17=-275/182, 14-15=-546/2616, 13-14=-594/3430, 11-13=-167/767, 10-11=-2070/303
WEBS 1-15=-392/2746, 2-15=-874/226, 2-14=-143/878, 3-13=-702/141, 5-13=-533/160, 6-13=-328/2224, 6-11=-1317/279, 7-11=-452/3176, 7-10=-2075/359, 8-10=-2381/373

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-7, Corner(3) 22-7-7 to 37-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=753.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-17=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-60, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-68, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-39, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-80, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-42, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-51, 9-17=-20
      Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Trapezoidal Loads (plf)
      Vert: 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-57, 9-17=-20
      Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Trapezoidal Loads (plf)
      Vert: 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-51, 9-17=-20
      Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
   Trapezoidal Loads (plf)
      Vert: 7=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-57, 9-17=-20
      Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
   Trapezoidal Loads (plf)
      Vert: 7=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-70, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 7=-70-to-8=-150

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Chesterfield, MO 63017

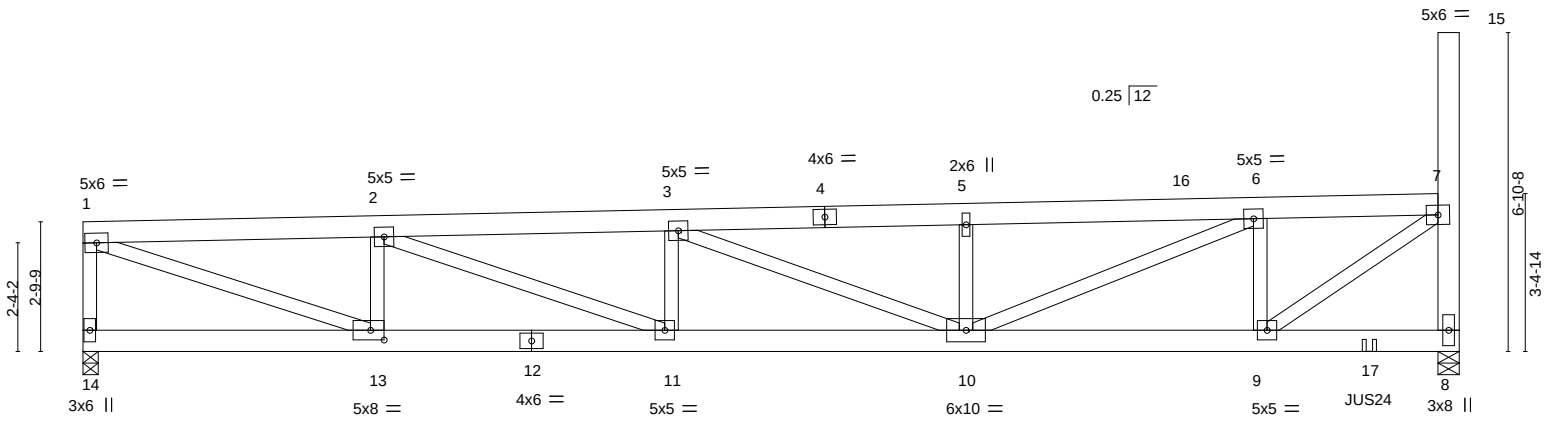
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M3G	Monopitch Girder	2	1	I52022163
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-cupN4uN_DhwEVbBF02PeF9dDhsKvTBkqA9DTQNzFlnM

6-4-2	12-8-4	19-0-7	25-4-9	29-8-1
6-4-2	6-4-2	6-4-3	6-4-2	4-3-8

Scale = 1:49.7



6-4-2	12-8-4	19-0-7	25-4-9	29-8-1
6-4-2	6-4-2	6-4-3	6-4-2	4-3-8

Plate Offsets (X,Y)-- [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.40	10-11	>882	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-1 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=195(LC 12)
Max Uplift 8=-291(LC 15)
Max Grav 14=1470(LC 21), 8=1800(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1393/335, 1-2=-3005/641, 2-3=-4173/962, 3-5=-3784/976, 5-6=-3784/982, 6-7=-2074/793, 7-8=-1665/466
BOT CHORD 13-14=-313/186, 11-13=-786/3000, 10-11=-945/4167, 9-10=-585/2068
WEBS 1-13=-681/3126, 2-13=-996/332, 2-11=-337/1253, 3-11=-324/189, 3-10=-421/219, 5-10=-501/204, 6-10=-533/1876, 6-9=-1274/353, 7-9=-652/2455

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=291.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 27-8-13 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 18,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(B)
   Trapezoidal Loads (plf)
   Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(B)
   Trapezoidal Loads (plf)
   Vert: 16=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(B)
   Trapezoidal Loads (plf)
   Vert: 16=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(B)
   Trapezoidal Loads (plf)
   Vert: 16=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(B)
   Trapezoidal Loads (plf)
   Vert: 16=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(B)
   Trapezoidal Loads (plf)
   Vert: 16=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 17=230(B)
   Trapezoidal Loads (plf)
   Vert: 16=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 17=230(B)
   Trapezoidal Loads (plf)
   Vert: 16=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 17=230(B)
   Trapezoidal Loads (plf)
   Vert: 16=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 17=230(B)
   Trapezoidal Loads (plf)
   Vert: 16=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(B)
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 17=-371(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 17=-371(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 17=-371(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 17=-371(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

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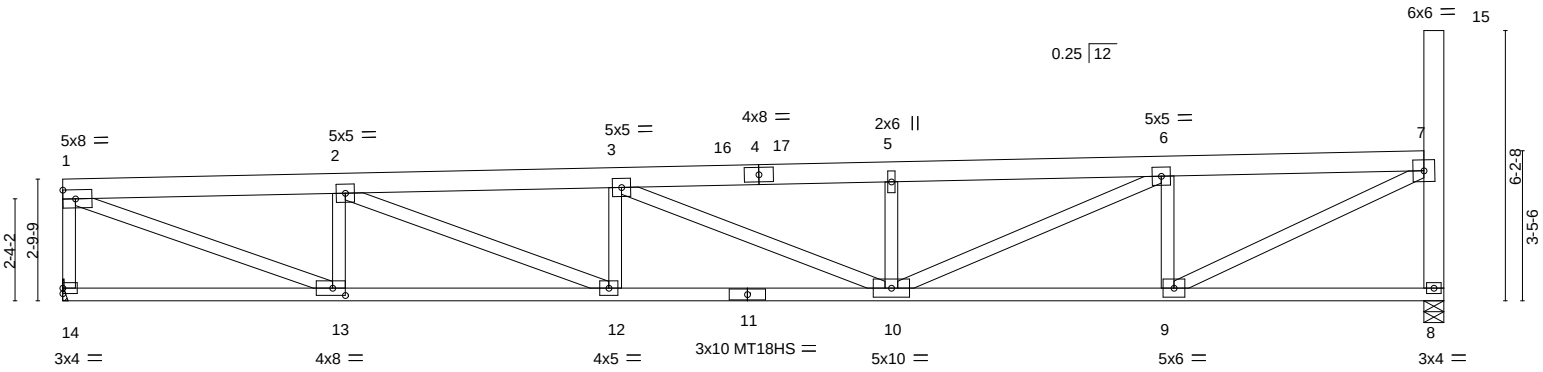
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M4	Monopitch	5	1	I52022164
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-44NIIDOc__356lmRamwtoMANfGc2CdC_Ppy0yqzFlnL

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:52.9



6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.27	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.55	10-12	>685	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-7 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=172(LC 12)
Max Grav 14=1570(LC 21), 8=1783(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1506/305, 1-2=-3168/552, 2-3=-4511/811, 3-5=-4337/819, 5-6=-4337/824, 6-7=-2844/614, 7-8=-1719/319
BOT CHORD 13-14=-263/165, 12-13=-699/3163, 10-12=-842/4504, 9-10=-434/2837
WEBS 1-13=-598/3327, 2-13=-1087/302, 2-12=-274/1446, 3-12=-415/177, 5-10=-492/183, 6-10=-349/1647, 6-9=-1253/314, 7-9=-520/3060

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M4G	Monopitch Girder	1	1	I52022165
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:06 2022 Page 1
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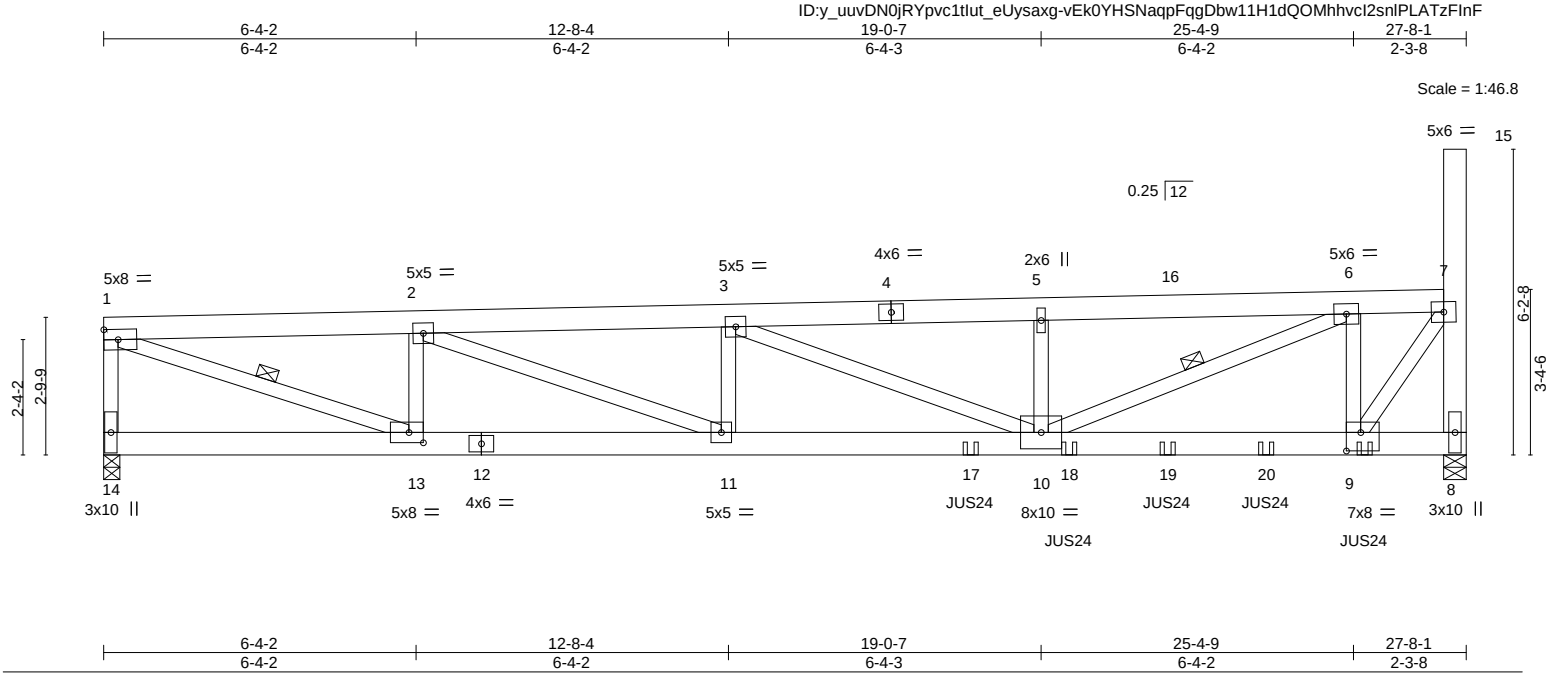

Plate Offsets (X,Y)-- [9:0-3-8,0-4-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.26	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.39	10-11	>838	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-15 oc bracing.
WEBS	1 Row at midpt 1-13, 6-10

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=171(LC 12)
Max Uplift 14=-301(LC 11), 8=-1156(LC 15)
Max Grav 14=1517(LC 21), 8=2448(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1439/643, 1-2=-3122/1404, 2-3=-4543/2417, 3-5=-4762/2991, 5-6=-4762/2996, 6-7=-2029/1419, 7-8=-2636/1725
BOT CHORD	13-14=-293/173, 11-13=-1538/3116, 10-11=-2410/4454, 9-10=-1233/1906
WEBS	1-13=-1484/3249, 2-13=-1040/620, 2-11=-1081/1653, 3-11=-459/452, 3-10=-1166/960, 5-10=-505/232, 6-10=-1866/3048, 6-9=-1635/859, 7-9=-2057/3164

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=301, 8=1156.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 17-7-5 from the left end to 25-7-5 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 16=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-66, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 16=-66-to-7=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 16=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-78, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 16=-78-to-7=-158
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 16=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 9=172(F) 17=174(F) 18=174(F) 19=173(F) 20=173(F)
   Trapezoidal Loads (plf)
   Vert: 16=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 9=172(F) 17=174(F) 18=174(F) 19=173(F) 20=173(F)
   Trapezoidal Loads (plf)
   Vert: 16=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=172(F) 17=174(F) 18=174(F) 19=173(F) 20=173(F)
   Trapezoidal Loads (plf)
   Vert: 16=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=172(F) 17=174(F) 18=174(F) 19=173(F) 20=173(F)
   Trapezoidal Loads (plf)
   Vert: 16=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 9=-313(F) 17=-316(F) 18=-315(F) 19=-315(F) 20=-314(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 9=-313(F) 17=-316(F) 18=-315(F) 19=-315(F) 20=-314(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(F) 17=-316(F) 18=-315(F) 19=-315(F) 20=-314(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(F) 17=-316(F) 18=-315(F) 19=-315(F) 20=-314(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M5	Monopitch	13	1	I52022166
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:07 2022 Page 1
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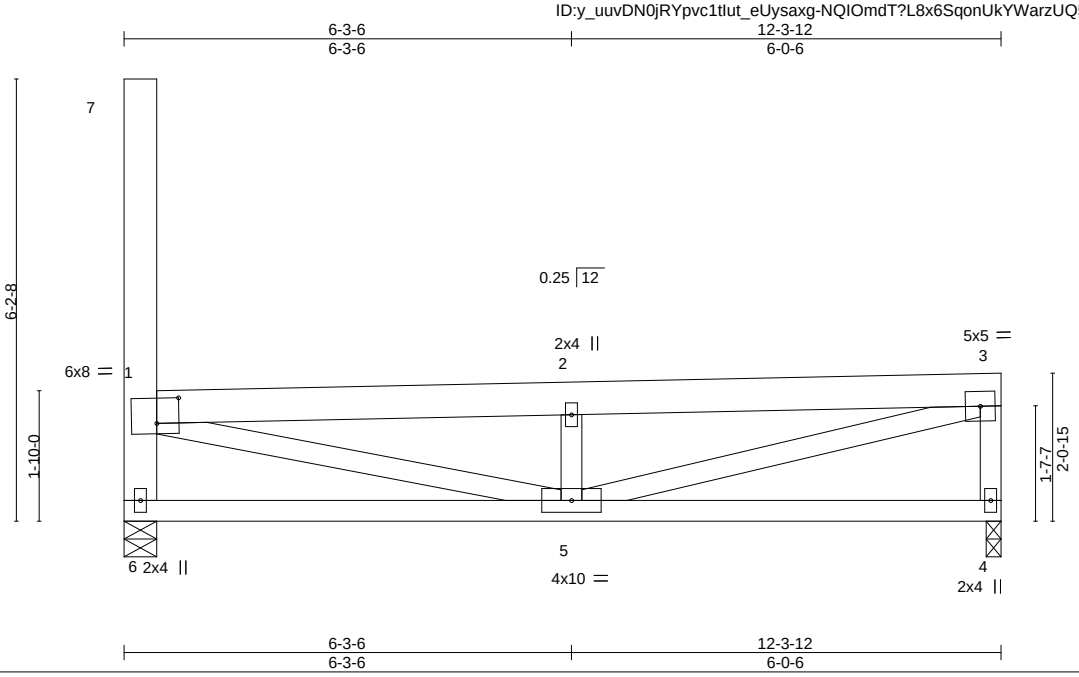

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 81 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-15 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-2-8
Max Horz 6=200(LC 12)
Max Uplift 6=-29(LC 11), 4=-9(LC 15)
Max Grav 6=779(LC 21), 4=619(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-728/362, 1-2=-1413/707, 2-3=-1410/716, 3-4=-570/312
BOT CHORD 5-6=-589/722
WEBS 1-5=-718/1150, 2-5=-535/343, 3-5=-762/1462

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-77, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M5A	Monopitch	3	1	I52022167
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:07 2022 Page 1
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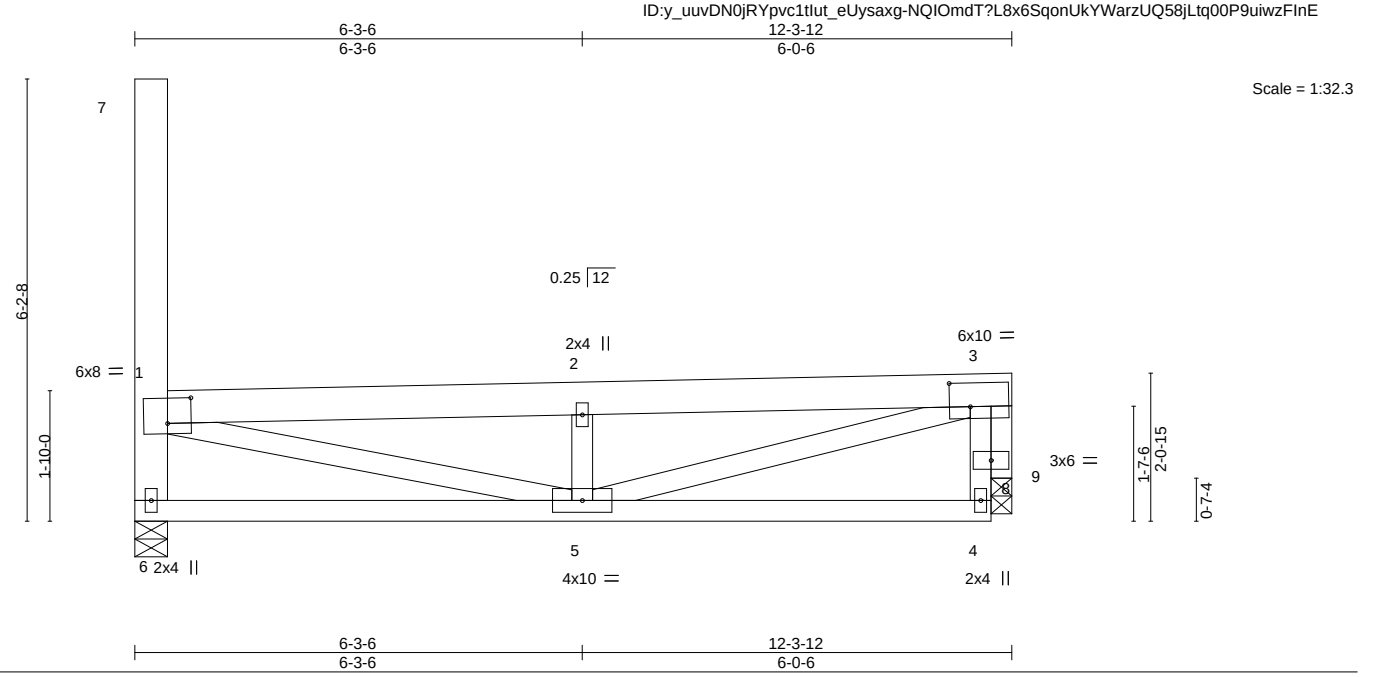

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4], [3:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 81 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-8-3 oc bracing.

REACTIONS. (size) 6=0-5-8, 9=0-3-8
Max Horz 6=190(LC 12)
Max Uplift 6=-28(LC 11), 9=-12(LC 15)
Max Grav 6=779(LC 22), 9=591(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-728/359, 1-2=-1381/699, 2-3=-1377/707
BOT CHORD 5-6=-576/684
WEBS 1-5=-683/1106, 2-5=-479/311, 3-5=-641/1232, 3-9=-625/293

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-60, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-65, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-2=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-39, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
      Vert: 2-3=-30, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-110-to-2=-30
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-77, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-2=-77
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-42, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-51, 4-6=-20
      Horz: 1-6=13, 1-7=27, 1-3=-9, 4-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-57, 4-6=-20
      Horz: 1-6=-3, 1-7=-27, 1-3=-3, 4-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-51, 4-6=-20
      Horz: 1-6=10, 1-7=-18, 1-3=-9, 4-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-3=-57, 4-6=-20
      Horz: 1-6=-2, 1-7=-18, 1-3=-3, 4-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-3=-70, 4-6=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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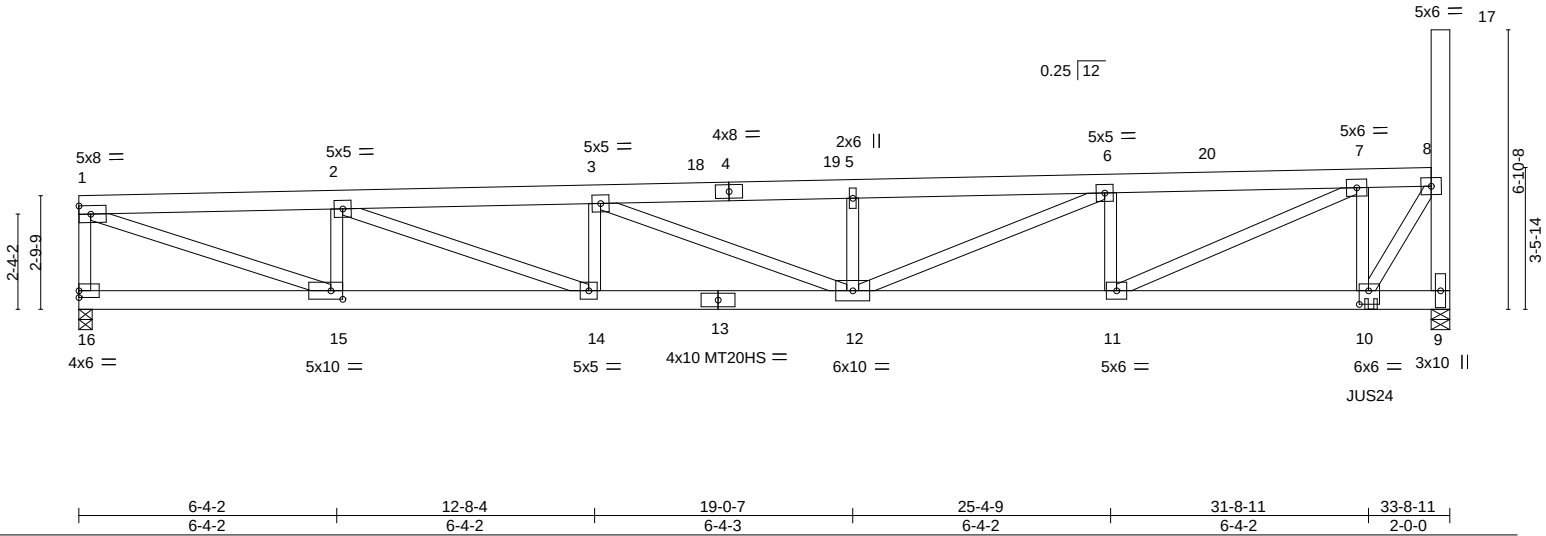
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M5G	Monopitch Girder	2	1	I52022168
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-JpQ9BIVFslBpi7yAb9a_fG2vlujEpf7JTje?mozFInC

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11	33-8-11
6-4-2	6-4-2	6-4-3	6-4-2	6-4-2	2-0-0

Scale = 1:56.7



6-4-2	12-8-4	19-0-7	25-4-9	31-8-11	33-8-11
6-4-2	6-4-2	6-4-3	6-4-2	6-4-2	2-0-0

Plate Offsets (X,Y)-- [10:0-2-12,0-4-0], [15:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.31	12-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.61	12-14	>661	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 243 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.

REACTIONS. (size) 16=0-3-15, 9=0-5-8
Max Horz 16=194(LC 12)
Max Uplift 9=-284(LC 15)
Max Grav 16=1680(LC 21), 9=2014(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1600/320, 1-2=-3520/621, 2-3=-5155/963, 3-5=-5179/1051, 5-6=-5179/1056, 6-7=-3824/940, 7-8=-1307/623, 8-9=-1979/640
BOT CHORD 15-16=-296/185, 14-15=-776/3515, 12-14=-983/5148, 11-12=-741/3818, 10-11=-420/1286
WEBS 1-15=-660/3669, 2-15=-1189/323, 2-14=-361/1753, 3-14=-508/204, 5-12=-498/169, 6-12=-352/1486, 6-11=-1106/313, 7-11=-521/2812, 7-10=-1706/385, 8-10=-714/2280

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-15, Corner(3) 18-5-15 to 33-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=284.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 31-9-7 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

May 18,2022

LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-70, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B)
   Trapezoidal Loads (plf)
   Vert: 20=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-60, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B)
   Trapezoidal Loads (plf)
   Vert: 20=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-67, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B)
   Trapezoidal Loads (plf)
   Vert: 20=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-39, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B)
   Trapezoidal Loads (plf)
   Vert: 20=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-79, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B)
   Trapezoidal Loads (plf)
   Vert: 20=-79-to-8=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-42, 9-16=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B)
   Trapezoidal Loads (plf)
   Vert: 20=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-20=-51, 9-16=-20
   Horz: 1-16=13, 1-8=-9, 8-9=3, 8-17=27
   Concentrated Loads (lb)
   Vert: 10=229(B)
   Trapezoidal Loads (plf)
   Vert: 20=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-20=-57, 9-16=-20
   Horz: 1-16=-3, 1-8=-3, 8-9=-13, 8-17=-27
   Concentrated Loads (lb)
   Vert: 10=229(B)
   Trapezoidal Loads (plf)
   Vert: 20=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-20=-51, 9-16=-20
   Horz: 1-16=10, 1-8=-9, 8-9=2, 8-17=18
   Concentrated Loads (lb)
   Vert: 10=229(B)
   Trapezoidal Loads (plf)
   Vert: 20=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-20=-57, 9-16=-20
   Horz: 1-16=-2, 1-8=-3, 8-9=-10, 8-17=18
   Concentrated Loads (lb)
   Vert: 10=229(B)
   Trapezoidal Loads (plf)
   Vert: 20=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-20=-70, 9-16=-20
Concentrated Loads (lb)
Vert: 10=-146(B)
Trapezoidal Loads (plf)
Vert: 20=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-20=-51, 9-16=-20
Horz: 1-16=13, 1-8=-9, 8-9=3, 8-17=27
Concentrated Loads (lb)
Vert: 10=-370(B)
Trapezoidal Loads (plf)
Vert: 20=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-20=-57, 9-16=-20
Horz: 1-16=-3, 1-8=-3, 8-9=-13, 8-17=-27
Concentrated Loads (lb)
Vert: 10=-370(B)
Trapezoidal Loads (plf)
Vert: 20=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-20=-51, 9-16=-20
Horz: 1-16=10, 1-8=-9, 8-9=2, 8-17=18
Concentrated Loads (lb)
Vert: 10=-370(B)
Trapezoidal Loads (plf)
Vert: 20=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-20=-57, 9-16=-20
Horz: 1-16=-2, 1-8=-3, 8-9=-10, 8-17=18
Concentrated Loads (lb)
Vert: 10=-370(B)
Trapezoidal Loads (plf)
Vert: 20=-57-to-8=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M6	Monopitch	14	1	I52022169
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:10 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-n?_XOeVud3JgJHXM9s6DCTb6HI2XYAiSiNNYJEzFlnB

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 27-8-2
6-4-2 | 6-4-2 | 6-4-3 | 6-4-2 | 2-3-9

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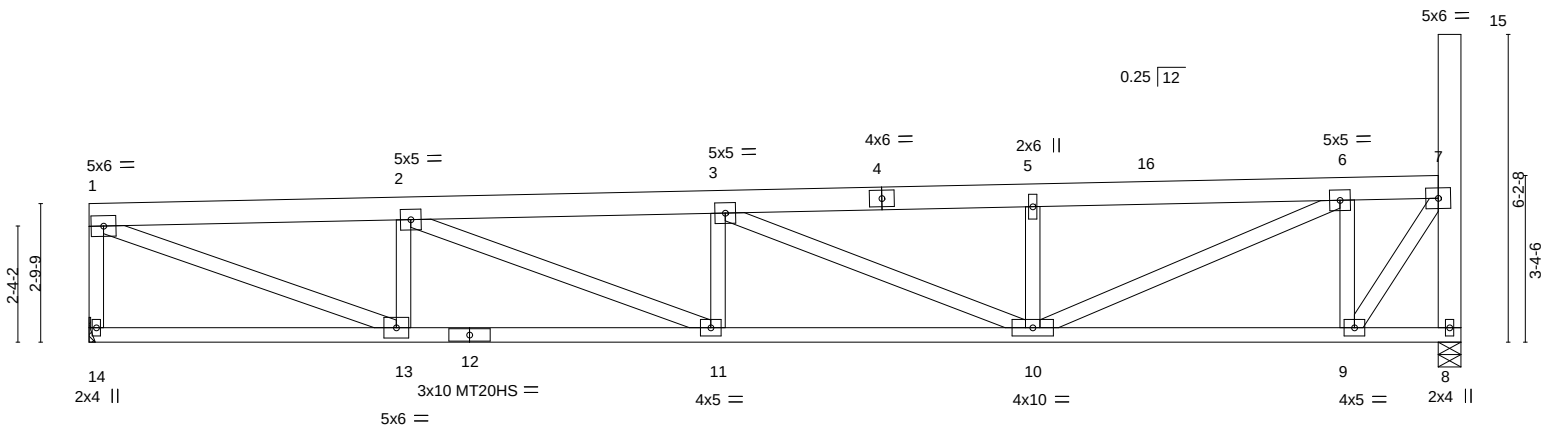

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 27-8-2
6-4-2 | 6-4-2 | 6-4-3 | 6-4-2 | 2-3-9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.17	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	10-11	>929	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=173(LC 12)
Max Grav 14=1361(LC 21), 8=1569(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1299/317, 1-2=-2671/561, 2-3=-3560/783, 3-5=-3003/713, 5-6=-3004/719, 6-7=-1085/390, 7-8=-1561/301
BOT CHORD 13-14=-278/172, 11-13=-698/2666, 10-11=-780/3554, 9-10=-202/1080
WEBS 1-13=-608/2799, 2-13=-893/305, 2-11=-233/958, 3-10=-604/209, 5-10=-528/209, 6-10=-499/2115, 6-9=-1419/348, 7-9=-338/1841

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-66, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-66-to-7=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-78, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-78-to-7=-158
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-16=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 16=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-16=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 16=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-16=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 16=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-16=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 16=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-16=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 16=-70-to-7=-150

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Chesterfield, MO 63017

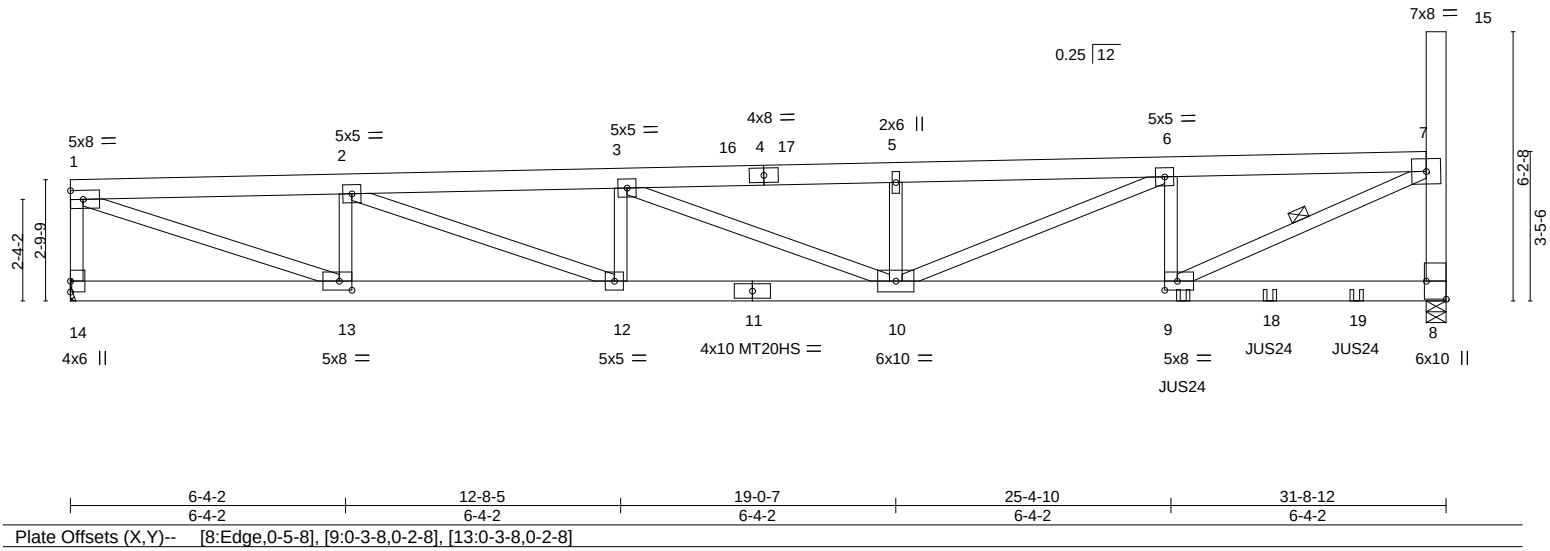
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M6G	Monopitch Girder	1	1	I52022170
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:11 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-FCYvc_WWONRXxR6YjadSkh7GbiP6Haqcx176rhzFInA

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:53.1



6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [8:Edge,0-5-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.28	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.54	10-12	>700	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-8 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=170(LC 12)
Max Uplift 14=-70(LC 11), 8=-738(LC 15)
Max Grav 14=1625(LC 21), 8=2200(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1545/415, 1-2=-3386/852, 2-3=-4904/1393, 3-5=-4811/1618, 5-6=-4810/1623, 6-7=-3456/1703, 7-8=-1929/796
BOT CHORD 13-14=-270/165, 12-13=-996/3380, 10-12=-1419/4897, 9-10=-1525/3415
WEBS 1-13=-903/3527, 2-13=-1139/413, 2-12=-574/1628, 3-12=-457/267, 3-10=-416/360, 5-10=-489/195, 6-10=-697/1585, 6-9=-1180/480, 7-9=-1623/3614

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=738.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 25-8-0 from the left end to 29-8-0 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 9=172(F) 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 9=172(F) 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=172(F) 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 9=172(F) 18=171(F) 19=170(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 9=-146(F) 18=-146(F) 19=-146(F)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 9=-313(F) 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 9=-313(F) 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(F) 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 9=-313(F) 18=-312(F) 19=-312(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M6S	GABLE	1	1	I52022171
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:14 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-gnD2E0ZOhIp6ovq7OiA9MJlnAvWpUvx2d?LmS0zFIn7

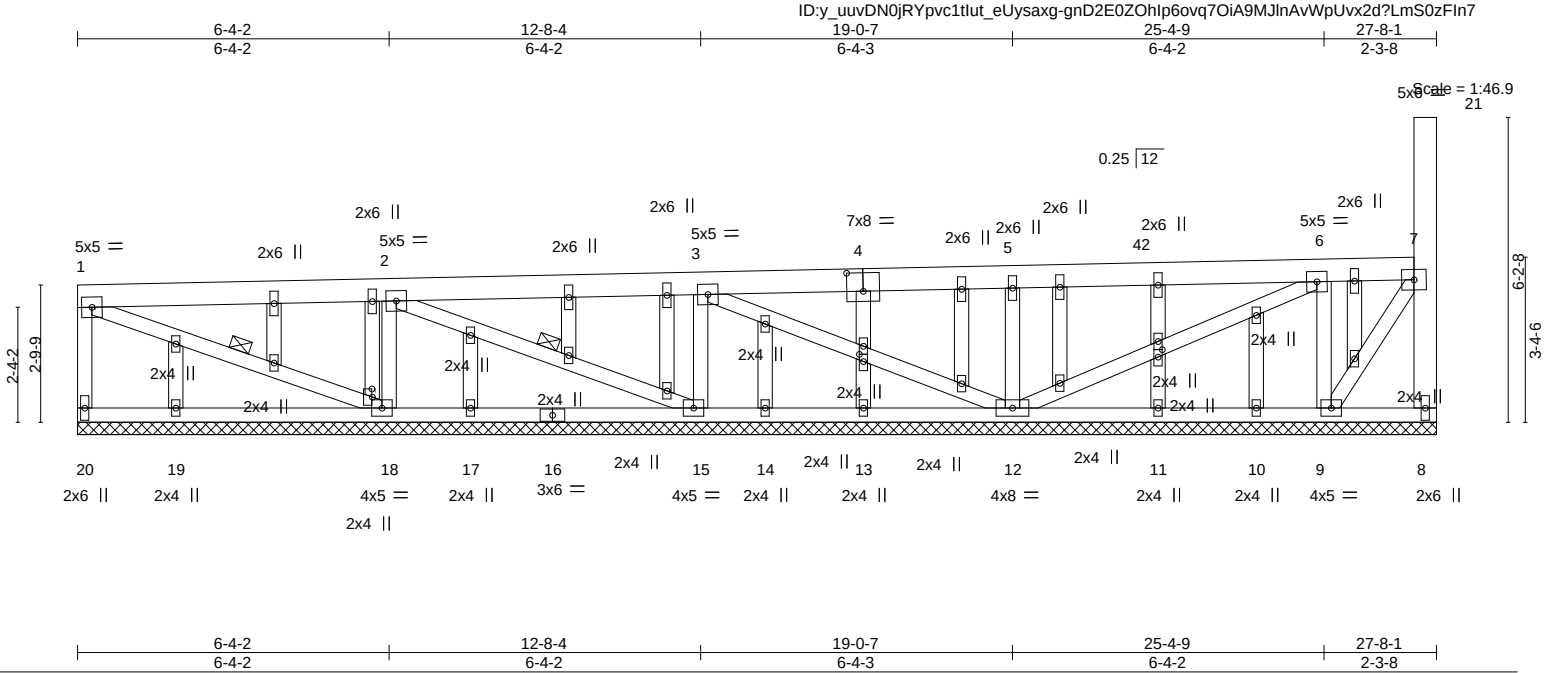

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [18:0-2-0,0-0-2], [32:0-1-12,0-1-0], [38:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	-0.02	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-21: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 4-9-15 oc bracing: 18-19 5-2-8 oc bracing: 15-17 5-3-3 oc bracing: 12-13.
WEBS	1 Row at midpt 1-18, 2-15

REACTIONS. All bearings 27-8-1.
(lb) - Max Horz 20=173(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 18, 12, 14 except 20=-623(LC 44), 8=-1131(LC 47), 9=-702(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 19, 17, 13, 11, 10 except 20=677(LC 51), 8=1158(LC 48), 18=590(LC 21), 15=561(LC 21), 12=642(LC 21), 9=961(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-661/608, 1-2=-1446/1427, 2-3=-1494/1439, 3-5=-1342/1277, 5-6=-1460/1408, 6-7=-936/868, 7-8=-1129/1186
BOT CHORD	19-20=-631/494, 18-19=-1500/1363, 17-18=-356/280, 15-17=-1294/1217, 14-15=-273/231, 13-14=-673/631, 12-13=-1280/1238, 11-12=-965/971, 10-11=-373/378, 9-10=-342/328, 8-9=-426/430
WEBS	1-18=-1519/1583, 2-18=-837/715, 2-15=-1358/1384, 3-15=-758/677, 3-12=-1219/1218, 5-12=-532/212, 6-12=-1200/1182, 6-9=-768/549, 7-9=-1347/1305

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12, 14 except (jt=lb) 20=623, 8=1131, 9=702.

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NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-8-1 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-70, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-60, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-66, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-66-to-7=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-39, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-78, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-78-to-7=-158
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-42=-42, 8-20=-20
   Trapezoidal Loads (plf)
   Vert: 42=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-51, 8-20=-20
   Horz: 1-20=13, 1-7=-9, 7-8=3, 7-21=27
   Trapezoidal Loads (plf)
   Vert: 42=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-57, 8-20=-20
   Horz: 1-20=-3, 1-7=-3, 7-8=-13, 7-21=-27
   Trapezoidal Loads (plf)
   Vert: 42=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-51, 8-20=-20
   Horz: 1-20=10, 1-7=-9, 7-8=2, 7-21=18
   Trapezoidal Loads (plf)
   Vert: 42=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-57, 8-20=-20
   Horz: 1-20=-2, 1-7=-3, 7-8=-10, 7-21=18
   Trapezoidal Loads (plf)
   Vert: 42=-57-to-7=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-57, 8-20=-20
   Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-7=7200
   Drag: 8-20=-150
   Trapezoidal Loads (plf)
   Vert: 42=-57-to-7=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-42=-63, 8-20=-20
   Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-7=-7200
   Drag: 8-20=150
   Trapezoidal Loads (plf)
   Vert: 42=-63-to-7=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-42=-63, 8-20=-20
Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-7=7200
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-63-to-7=-123

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-69, 8-20=-20
Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-7=-7200
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-69-to-7=-129

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-36, 8-20=-20
Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-7=7200
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-36-to-7=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-42, 8-20=-20
Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-7=-7200
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-42-to-7=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-48, 8-20=-20
Horz: 1-20=13, 1-2=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-7=7191, 7-8=3, 7-21=27
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-48-to-7=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-54, 8-20=-20
Horz: 1-20=13, 1-2=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-7=-7209, 7-8=3, 7-21=27
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-54-to-7=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-54, 8-20=-20
Horz: 1-20=-3, 1-2=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-7=7197, 7-8=-13, 7-21=-27
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-54-to-7=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-60, 8-20=-20
Horz: 1-20=-3, 1-2=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-7=-7203, 7-8=-13, 7-21=-27
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-60-to-7=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-48, 8-20=-20
Horz: 1-20=10, 1-2=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-7=7191, 7-8=2, 7-21=18
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-48-to-7=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-54, 8-20=-20
Horz: 1-20=10, 1-2=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-7=-7209, 7-8=2, 7-21=18
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-54-to-7=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-42=-54, 8-20=-20
Horz: 1-20=-2, 1-2=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-7=7197, 7-8=-10, 7-21=18
Drag: 8-20=-150
Trapezoidal Loads (plf)
Vert: 42=-54-to-7=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-42=-60, 8-20=-20
Horz: 1-20=-2, 1-2=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-7=-7203, 7-8=-10, 7-21=18
Drag: 8-20=150
Trapezoidal Loads (plf)
Vert: 42=-60-to-7=-120

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M7	Monopitch	1	1	I52022172
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:15 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-8znQRMZ0SbxzQ2PKyPhOvXlyTJkFDQsBrf5J_SzFIn6

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 29-8-1
6-4-2 | 6-4-2 | 6-4-3 | 6-4-2 | 4-3-8

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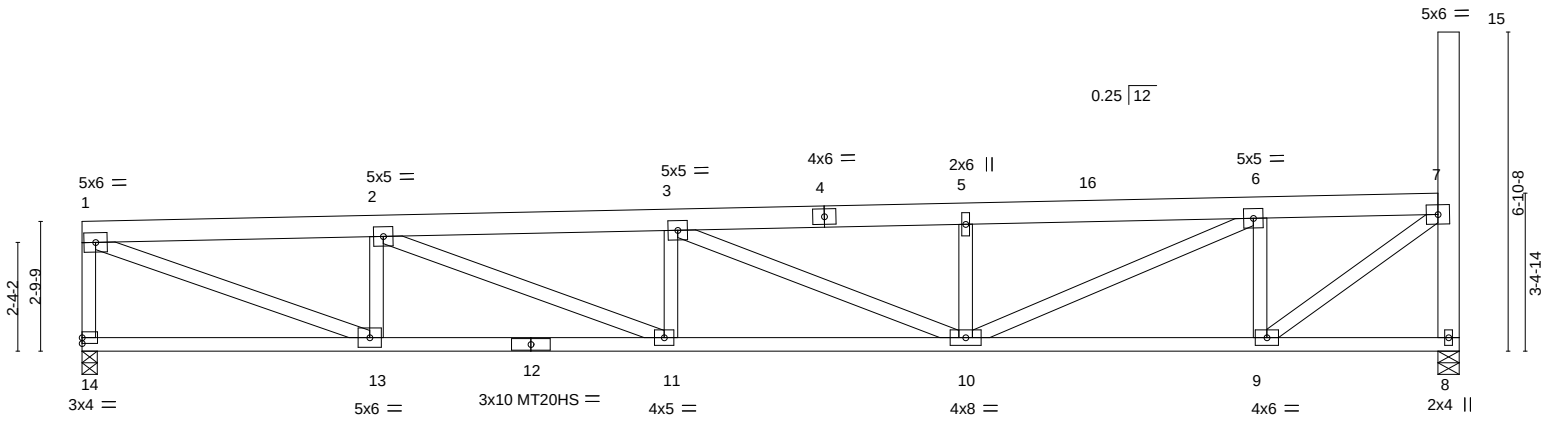

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 29-8-1
6-4-2 | 6-4-2 | 6-4-3 | 6-4-2 | 4-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.44	10-11	>794	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=197(LC 12)
Max Grav 14=1474(LC 21), 8=1730(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1411/318, 1-2=-2939/573, 2-3=-4074/830, 3-5=-3730/812, 5-6=-3731/818, 6-7=-2022/559, 7-8=-1692/324
BOT CHORD 13-14=-308/194, 11-13=-721/2934, 10-11=-819/4068, 9-10=-350/2015
WEBS 1-13=-621/3085, 2-13=-998/310, 2-11=-271/1222, 3-11=-332/175, 3-10=-398/169, 5-10=-519/201, 6-10=-446/1885, 6-9=-1361/308, 7-9=-407/2449

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-79-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M7G	MONOPITCH GIRDER	1	2	I52022173
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:18 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-YYTY4NcvlWKYHW8udYF5X9wUdXsLQqMdYdJzbnzFln3

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

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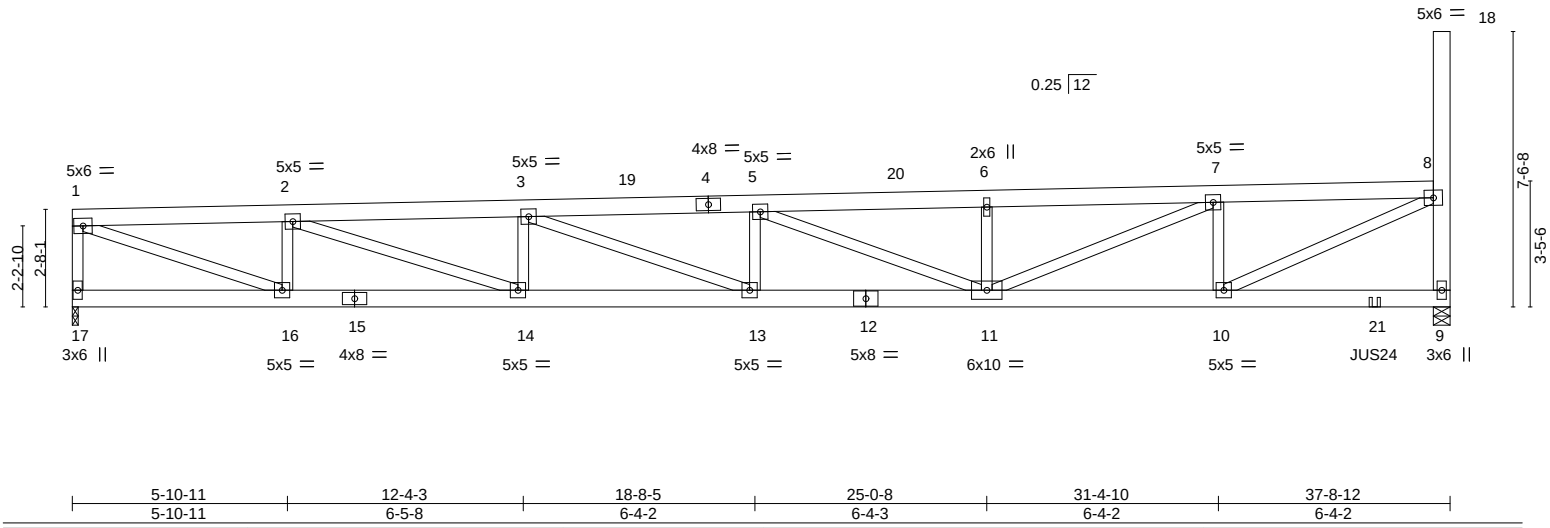

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.24	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.47	13	>950	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 533 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-18: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-1-15, 9=0-5-8
Max Horz 17=219(LC 12)
Max Uplift 9=-361(LC 15)
Max Grav 17=1891(LC 21), 9=2241(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1812/308, 1-2=-4013/609, 2-3=-6364/1018, 3-5=-6903/1189, 5-6=-5911/1138, 6-7=-5911/1143, 7-8=-3669/1000, 8-9=-2052/423
BOT CHORD 16-17=-319/210, 14-16=-781/4008, 13-14=-1043/6358, 11-13=-1079/6896, 10-11=-778/3662
WEBS 1-16=-649/4201, 2-16=-1408/319, 2-14=-430/2498, 3-14=-726/225, 3-13=-178/578, 5-11=-1072/247, 6-11=-490/168, 7-11=-518/2461, 7-10=-1562/352, 8-10=-757/3903

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-0, Corner(3) 22-6-0 to 37-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=361.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 35-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-146(F)
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-117(F)
   Trapezoidal Loads (plf)
   Vert: 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-117(F)
   Trapezoidal Loads (plf)
   Vert: 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-117(F)
   Trapezoidal Loads (plf)
   Vert: 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-80, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-146(F)
   Trapezoidal Loads (plf)
   Vert: 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 9-17=-20
   Concentrated Loads (lb)
   Vert: 21=-146(F)
   Trapezoidal Loads (plf)
   Vert: 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 21=295(F)
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Concentrated Loads (lb)
   Vert: 21=295(F)
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 9-17=-20
   Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
   Concentrated Loads (lb)
   Vert: 21=295(F)
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 9-17=-20
   Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
   Concentrated Loads (lb)
   Vert: 21=295(F)

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-17=-20
Concentrated Loads (lb)
Vert: 21=-146(F)
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-17=-20
Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
Concentrated Loads (lb)
Vert: 21=-436(F)
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-17=-20
Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
Concentrated Loads (lb)
Vert: 21=-436(F)
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-17=-20
Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
Concentrated Loads (lb)
Vert: 21=-436(F)
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-17=-20
Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
Concentrated Loads (lb)
Vert: 21=-436(F)
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

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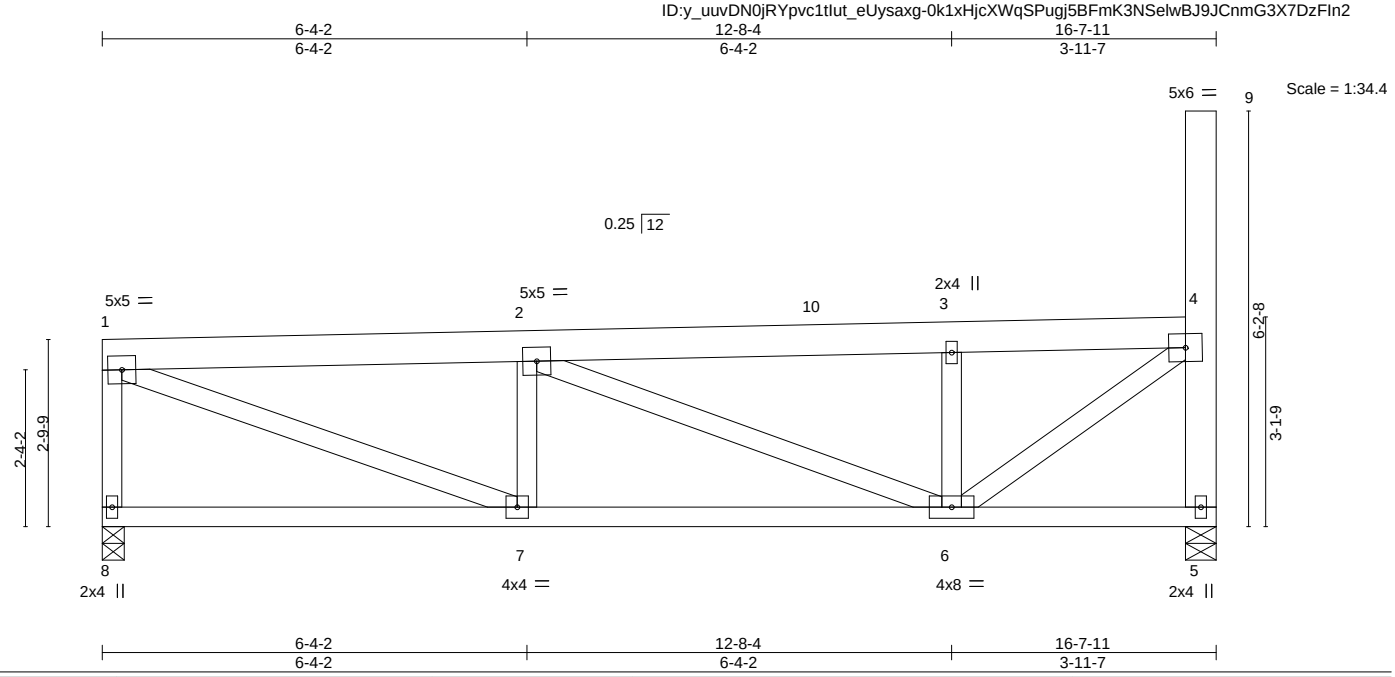
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M8	Monopitch	7	1	I52022174
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-0k1xHjcXWqSPugj5BFmK3NSelwBJ9JCnmG3X7DzFIn2



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.09	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 111 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-5 oc bracing.

REACTIONS. (size) 8=0-3-15, 5=0-5-8
Max Horz 8=176(LC 12)
Max Uplift 8=-3(LC 11)
Max Grav 8=815(LC 21), 5=991(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-764/316, 1-2=-1380/499, 2-3=-1055/485, 3-4=-1055/491, 4-5=-966/335
BOT CHORD 7-8=-326/208, 6-7=-552/1377
WEBS 1-7=-552/1478, 2-7=-398/289, 2-6=-392/325, 3-6=-506/249, 4-6=-374/1253

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 5-8=-20

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LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: 10=-60-to-4=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-65-to-4=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-39-to-4=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-77-to-4=-157
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-42-to-4=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-51, 5-8=-20
Horz: 1-8=13, 1-4=-9, 4-5=3, 4-9=27
Trapezoidal Loads (plf)
Vert: 10=-51-to-4=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-57, 5-8=-20
Horz: 1-8=-3, 1-4=-3, 4-5=-13, 4-9=-27
Trapezoidal Loads (plf)
Vert: 10=-57-to-4=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-51, 5-8=-20
Horz: 1-8=10, 1-4=-9, 4-5=2, 4-9=18
Trapezoidal Loads (plf)
Vert: 10=-51-to-4=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-57, 5-8=-20
Horz: 1-8=-2, 1-4=-3, 4-5=-10, 4-9=18
Trapezoidal Loads (plf)
Vert: 10=-57-to-4=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M8G	MONOPITCH GIRDER	1	2	I52022175
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:20 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-UwbJV3d9H8aGWqIHlzHZca?q?KXUukYw?wo4ffzFIn1

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

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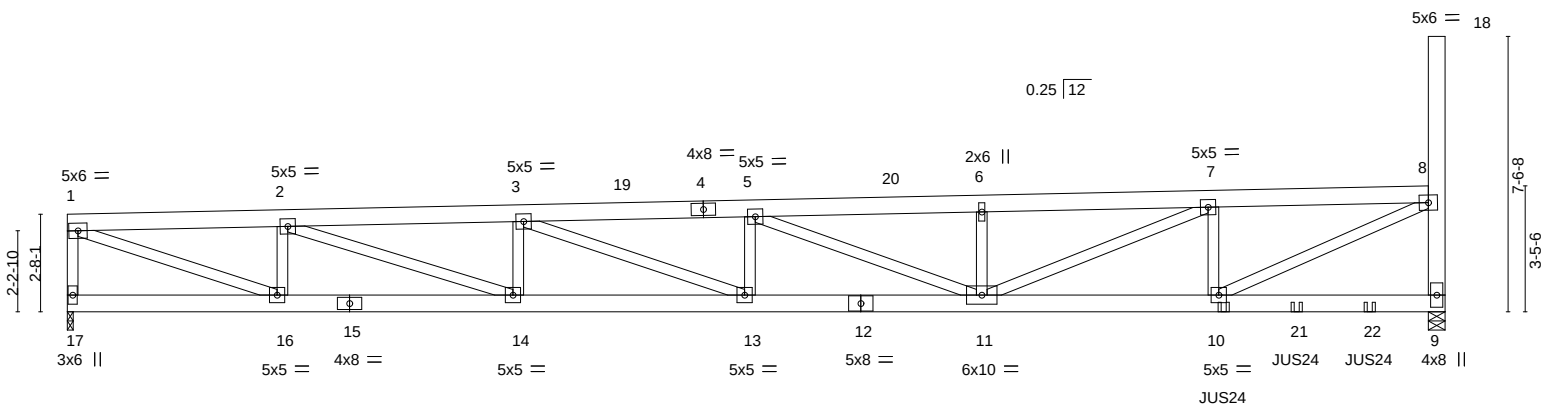

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.26	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.49	13	>912	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 533 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-18: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-1-15, 9=0-5-8
Max Horz 17=219(LC 12)
Max Uplift 17=-97(LC 11), 9=-1186(LC 15)
Max Grav 17=1930(LC 21), 9=2788(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1851/433, 1-2=-4108/917, 2-3=-6554/1636, 3-5=-7179/2086, 5-6=-6259/2269, 6-7=-6259/2274, 7-8=-4507/2417, 8-9=-2252/1072
BOT CHORD 16-17=-323/215, 14-16=-1089/4103, 13-14=-1660/6548, 11-13=-1976/7172, 10-11=-2195/4347, 9-10=-223/295
WEBS 1-16=-975/4301, 2-16=-1444/436, 2-14=-759/2600, 3-14=-761/341, 3-13=-478/800, 5-11=-1070/510, 6-11=-495/184, 7-11=-843/2364, 7-10=-1513/517, 8-10=-2248/4539

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-0, Corner(3) 22-6-0 to 37-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 9=1186.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 31-8-0 from the left end to 35-8-0 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B) 21=-146(B) 22=-146(B)
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B) 21=-117(B) 22=-117(B)
   Trapezoidal Loads (plf)
   Vert: 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B) 21=-117(B) 22=-117(B)
   Trapezoidal Loads (plf)
   Vert: 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(B) 21=-117(B) 22=-117(B)
   Trapezoidal Loads (plf)
   Vert: 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-80, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B) 21=-146(B) 22=-146(B)
   Trapezoidal Loads (plf)
   Vert: 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(B) 21=-146(B) 22=-146(B)
   Trapezoidal Loads (plf)
   Vert: 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 10=296(B) 21=296(B) 22=295(B)
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Concentrated Loads (lb)
   Vert: 10=296(B) 21=296(B) 22=295(B)
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 9-17=-20
   Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
   Concentrated Loads (lb)
   Vert: 10=296(B) 21=296(B) 22=295(B)
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 9-17=-20
   Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
   Concentrated Loads (lb)
   Vert: 10=296(B) 21=296(B) 22=295(B)

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-17=-20
Concentrated Loads (lb)
Vert: 10=-146(B) 21=-146(B) 22=-146(B)
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-17=-20
Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
Concentrated Loads (lb)
Vert: 10=-438(B) 21=-437(B) 22=-436(B)
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-17=-20
Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
Concentrated Loads (lb)
Vert: 10=-438(B) 21=-437(B) 22=-436(B)
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-17=-20
Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
Concentrated Loads (lb)
Vert: 10=-438(B) 21=-437(B) 22=-436(B)
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-17=-20
Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
Concentrated Loads (lb)
Vert: 10=-438(B) 21=-437(B) 22=-436(B)
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-117

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M8S	GABLE	1	1	I52022176
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-RJi3vlfPplqzI7RgsOJ1h?49?8FRMX6DSEHBkYzFIn?

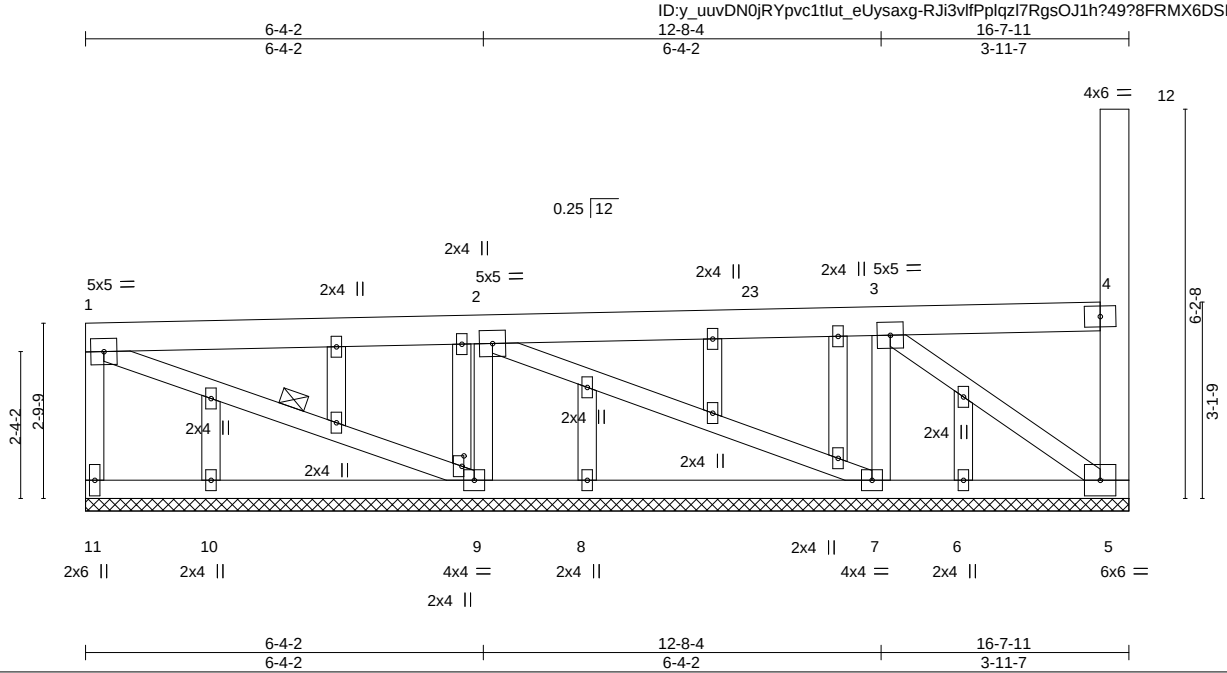

Plate Offsets (X,Y)-- [9:0-2-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	-0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 127 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 5-12: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-8-14 oc bracing.
WEBS	1 Row at midpt 1-9

REACTIONS. All bearings 16-7-11.
(lb) - Max Horz 11=176(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 9 except 11=-572(LC 44), 5=-754(LC 47), 7=-347(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 10, 8, 6 except 11=624(LC 51), 5=813(LC 48), 9=603(LC 21), 7=725(LC 71)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-11=-624/574, 1-2=-1263/1213, 2-3=-1260/1170, 3-4=-1062/905
BOT CHORD	10-11=-697/527, 9-10=-1565/1396, 8-9=-477/380, 7-8=-1414/1318, 6-7=-530/484, 5-6=-990/944
WEBS	1-9=-1446/1524, 2-9=-800/711, 2-7=-1155/1208, 3-7=-969/826, 3-5=-1239/1327

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 11=572, 5=754, 7=347.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-7-11 for 200.0 plf.

May 18,2022

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-70, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-70-to-4=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-60, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-60-to-4=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-65, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-65-to-4=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-39, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-39-to-4=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-77, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-77-to-4=-157
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-23=-42, 5-11=-20
   Trapezoidal Loads (plf)
   Vert: 23=-42-to-4=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-51, 5-11=-20
   Horz: 1-11=13, 1-4=-9, 4-5=3, 4-12=27
   Trapezoidal Loads (plf)
   Vert: 23=-51-to-4=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-57, 5-11=-20
   Horz: 1-11=-3, 1-4=-3, 4-5=-13, 4-12=-27
   Trapezoidal Loads (plf)
   Vert: 23=-57-to-4=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-51, 5-11=-20
   Horz: 1-11=10, 1-4=-9, 4-5=2, 4-12=18
   Trapezoidal Loads (plf)
   Vert: 23=-51-to-4=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-57, 5-11=-20
   Horz: 1-11=-2, 1-4=-3, 4-5=-10, 4-12=18
   Trapezoidal Loads (plf)
   Vert: 23=-57-to-4=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-57, 5-11=-20
   Horz: 1-2=7200, 2-23=7200, 3-23=7200, 3-4=7200
   Drag: 5-11=-150
   Trapezoidal Loads (plf)
   Vert: 23=-57-to-4=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-63, 5-11=-20
   Horz: 1-2=-7200, 2-23=-7200, 3-23=-7200, 3-4=-7200
   Drag: 5-11=150
   Trapezoidal Loads (plf)
   Vert: 23=-63-to-4=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-23=-62, 5-11=-20
   Horz: 1-2=7200, 2-23=7200, 3-23=7200, 3-4=7200
   Drag: 5-11=-150
   Trapezoidal Loads (plf)
   Vert: 23=-62-to-4=-122

Continued on page 3

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-68, 5-11=-20
Horz: 1-2=-7200, 2-23=-7200, 3-23=-7200, 3-4=-7200
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-68-to-4=-128

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-36, 5-11=-20
Horz: 1-2=7200, 2-23=7200, 3-23=7200, 3-4=7200
Drag: 5-11=-150
Trapezoidal Loads (plf)
Vert: 23=-36-to-4=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-42, 5-11=-20
Horz: 1-2=-7200, 2-23=-7200, 3-23=-7200, 3-4=-7200
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-42-to-4=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-48, 5-11=-20
Horz: 1-11=13, 1-2=7191, 2-23=7191, 3-23=7191, 3-4=7191, 4-5=3, 4-12=27
Drag: 5-11=-150
Trapezoidal Loads (plf)
Vert: 23=-48-to-4=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-54, 5-11=-20
Horz: 1-11=13, 1-2=-7209, 2-23=-7209, 3-23=-7209, 3-4=-7209, 4-5=3, 4-12=27
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-54-to-4=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-54, 5-11=-20
Horz: 1-11=-3, 1-2=7197, 2-23=7197, 3-23=7197, 3-4=7197, 4-5=-13, 4-12=-27
Drag: 5-11=-150
Trapezoidal Loads (plf)
Vert: 23=-54-to-4=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-60, 5-11=-20
Horz: 1-11=-3, 1-2=-7203, 2-23=-7203, 3-23=-7203, 3-4=-7203, 4-5=-13, 4-12=-27
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-60-to-4=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-48, 5-11=-20
Horz: 1-11=10, 1-2=7191, 2-23=7191, 3-23=7191, 3-4=7191, 4-5=2, 4-12=18
Drag: 5-11=-150
Trapezoidal Loads (plf)
Vert: 23=-48-to-4=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-54, 5-11=-20
Horz: 1-11=10, 1-2=-7209, 2-23=-7209, 3-23=-7209, 3-4=-7209, 4-5=2, 4-12=18
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-54-to-4=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-54, 5-11=-20
Horz: 1-11=-2, 1-2=7197, 2-23=7197, 3-23=7197, 3-4=7197, 4-5=-10, 4-12=18
Drag: 5-11=-150
Trapezoidal Loads (plf)
Vert: 23=-54-to-4=-114

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-23=-60, 5-11=-20
Horz: 1-11=-2, 1-2=-7203, 2-23=-7203, 3-23=-7203, 3-4=-7203, 4-5=-10, 4-12=18
Drag: 5-11=150
Trapezoidal Loads (plf)
Vert: 23=-60-to-4=-120

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M9	Monopitch	9	1	I52022177
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:23 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-vVGR75f2Z3yqNH0sQ5qGEDdLUYUd51eNhu1kG_zFIn_

6-4-2 | 12-8-4 | 19-0-7 | 25-4-12
6-4-2 | 6-4-2 | 6-4-3 | 6-4-5

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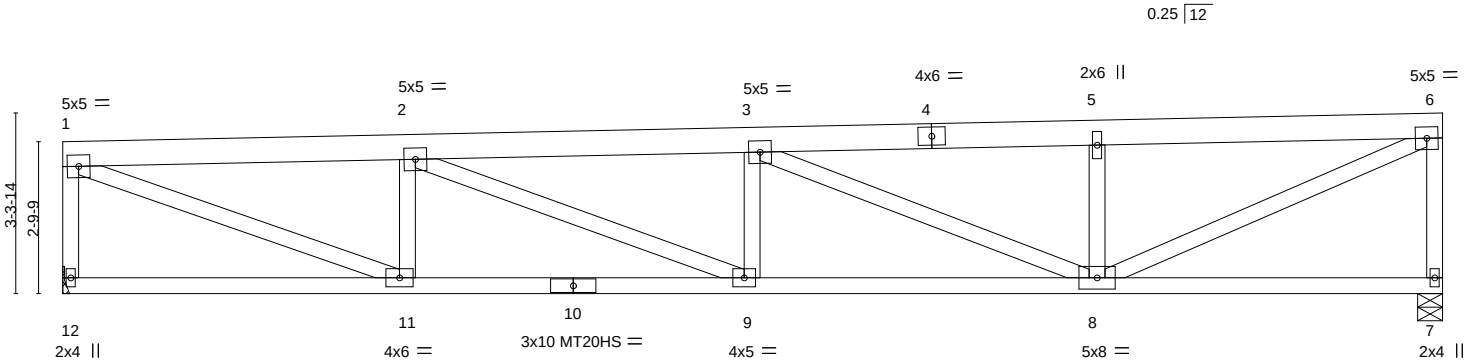

6-4-2 | 12-8-4 | 19-0-7 | 25-4-12
6-4-2 | 6-4-2 | 6-4-3 | 6-4-5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.14	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.29	9-11	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-0-10 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=63(LC 12)
Max Grav 12=1229(LC 21), 7=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1168/299, 1-2=-2356/522, 2-3=-2960/649, 3-5=-2156/487, 5-6=-2157/494, 6-7=-1170/304
BOT CHORD	9-11=-581/2351, 8-9=-692/2954
WEBS	1-11=-550/2465, 2-11=-771/285, 2-9=-147/649, 3-8=-872/205, 5-8=-532/232, 6-8=-531/2338

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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Chesterfield, MO 63017

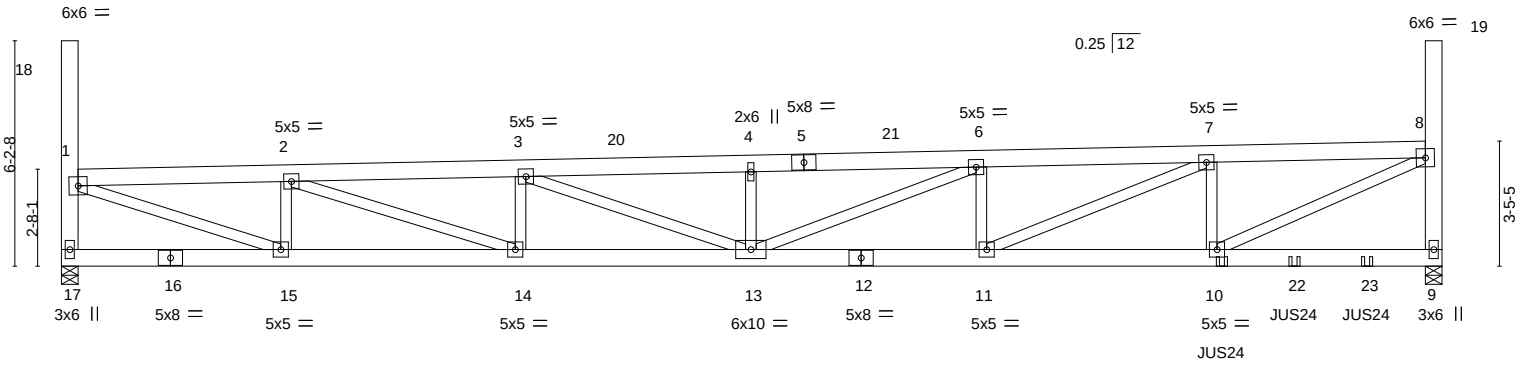
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M9G	MONOPITCH GIRDER	1	2	I52022178
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:25 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ruOCYnhI5gCYcbAFXWtkJdihcLE?Z_Yf9CWrJtzFImy

6-2-4	12-7-12	18-11-14	25-4-1	31-8-3	38-0-5
6-2-4	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

Scale: 3/16"=1'



6-2-4	12-7-12	18-11-14	25-4-1	31-8-3	38-0-5
6-2-4	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.27	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.51	13	>879	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 550 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 17-18,9-19: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=260(LC 14)
Max Uplift 17=-46(LC 11), 9=-756(LC 15)
Max Grav 17=2166(LC 21), 9=2519(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-2067/397, 1-2=-4439/926, 2-3=-6807/1348, 3-4=-7358/1532, 4-6=-7358/1537, 6-7=-6380/1646, 7-8=-4162/1680, 8-9=-2276/803
BOT CHORD	15-17=-501/470, 14-15=-1138/4430, 13-14=-1555/6800, 11-13=-1689/6374, 10-11=-1563/4155
WEBS	1-15=-869/4486, 2-15=-1476/382, 2-14=-674/2520, 3-14=-725/310, 3-13=-386/651, 4-13=-509/160, 6-13=-433/1064, 6-11=-897/305, 7-11=-703/2434, 7-10=-1539/459, 8-10=-1668/4423

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 9=756.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

May 18,2022

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NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 31-11-9 from the left end to 35-11-9 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 22=-146(F) 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70, 7=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 22=-117(F) 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60, 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 22=-117(F) 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-128-to-2=-68, 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 22=-117(F) 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39, 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-80, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 22=-146(F) 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-160-to-2=-80, 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 9-17=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 22=-146(F) 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42, 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 9-17=-20
   Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
   Concentrated Loads (lb)
   Vert: 10=172(F) 22=171(F) 23=170(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51, 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 9-17=-20
   Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
   Concentrated Loads (lb)
   Vert: 10=172(F) 22=171(F) 23=170(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57, 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 9-17=-20
   Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
   Concentrated Loads (lb)
   Vert: 10=172(F) 22=171(F) 23=170(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51, 7=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 9-17=-20
   Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
   Concentrated Loads (lb)
   Vert: 10=172(F) 22=171(F) 23=170(F)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 9-17=-20
Concentrated Loads (lb)
Vert: 10=-146(F) 22=-146(F) 23=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 7=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
Concentrated Loads (lb)
Vert: 10=-313(F) 22=-312(F) 23=-312(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51, 7=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 9-17=-20
Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
Concentrated Loads (lb)
Vert: 10=-313(F) 22=-312(F) 23=-312(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
Concentrated Loads (lb)
Vert: 10=-313(F) 22=-312(F) 23=-312(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51, 7=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
Concentrated Loads (lb)
Vert: 10=-313(F) 22=-312(F) 23=-312(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

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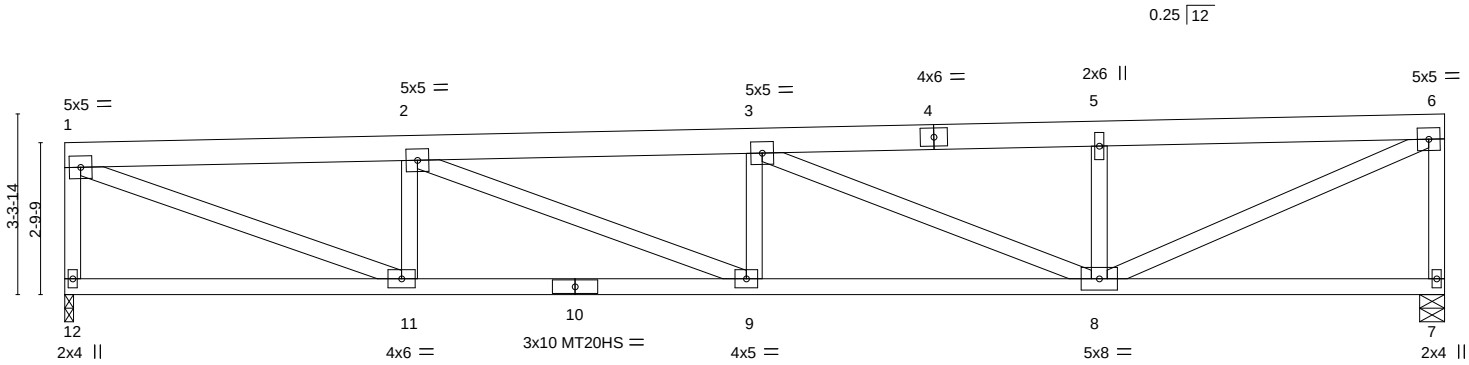
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M10	Monopitch	4	1	I52022179
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:40 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-QhYVVtQRqPzSWSe3uzU6YUskT0KWSS8C?Nan8SzFIob

6-4-2	12-8-4	19-0-7	25-4-11
6-4-2	6-4-2	6-4-3	6-4-4

Scale = 1:42.4



6-4-2	12-8-4	19-0-7	25-4-11
6-4-2	6-4-2	6-4-3	6-4-4

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.14	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.29	9-11	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-0-10 oc bracing.

REACTIONS. (size) 12=0-1-15, 7=0-5-8
Max Horz 12=63(LC 12)
Max Grav 12=1229(LC 21), 7=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1168/299, 1-2=-2356/522, 2-3=-2958/649, 3-5=-2154/487, 5-6=-2155/493, 6-7=-1170/304
BOT CHORD	9-11=-581/2350, 8-9=-692/2952
WEBS	1-11=-550/2464, 2-11=-771/285, 2-9=-147/649, 3-8=-872/206, 5-8=-532/232, 6-8=-531/2337

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M10S	GABLE	2	1	I52022180
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:43 2022 Page 1
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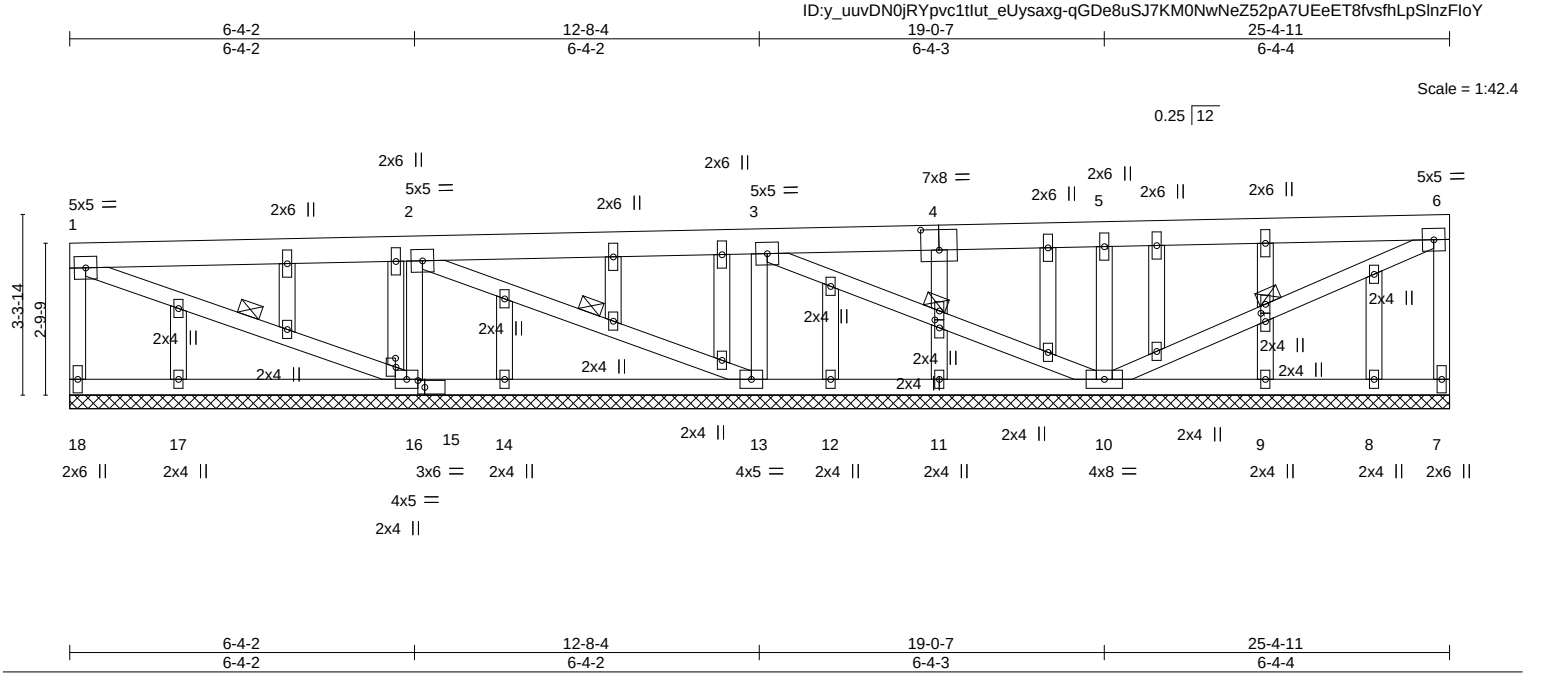

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [15:0-1-8,0-1-8], [16:0-2-0,0-0-2], [29:0-1-12,0-1-0], [35:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 185 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-12 oc bracing.
WEBS	1 Row at midpt 1-16, 2-13, 3-10, 6-10

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 18=63(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 10, 12, 8 except 18=-609(LC 44), 7=-564(LC 53)
Max Grav All reactions 250 lb or less at joint(s) 17, 14, 11, 9, 8 except 18=663(LC 65), 7=637(LC 64), 16=590(LC 21), 13=559(LC 21), 10=639(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-653/635, 1-2=-1413/1395, 2-3=-1435/1429, 3-5=-1350/1348, 5-6=-1199/1203, 6-7=-630/619
BOT CHORD	17-18=-454/439, 16-17=-1322/1308, 13-14=-1177/1172, 11-12=-552/549, 10-11=-1159/1157, 9-10=-1257/1262, 8-9=-664/669, 7-8=-256/269
WEBS	1-16=-1508/1518, 2-16=-847/749, 2-13=-1385/1388, 3-13=-782/719, 3-10=-1295/1292, 5-10=-545/238, 6-10=-1332/1316

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 10, 12, 8 except (jt=lb) 18=609, 7=564.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

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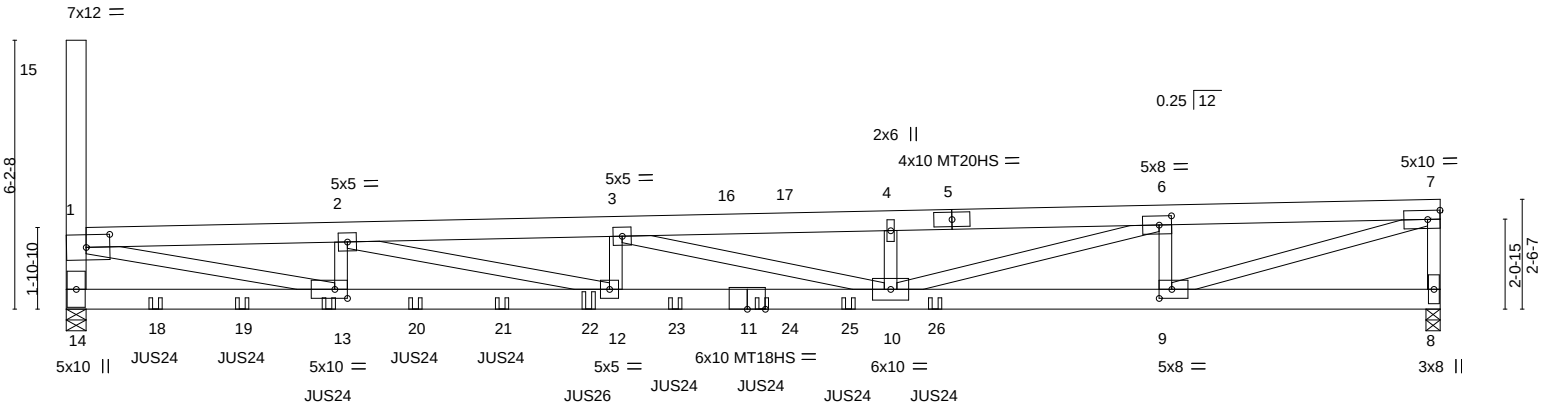
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M11G	MONOPITCH GIRDER	1	2	I52022181
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-FrvmmwUBPFkbEN6DEDbWol6fXRQFs8T5OI16M6zFIoV

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:53.2



6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [1:0-6-9,0-3-8], [6:0-3-7,0-2-8], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.78	10-12	>483	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.97	10-12	>387	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.07	8	n/a	n/a	MT18HS	244/190
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 432 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-12 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=206(LC 12)
Max Uplift 14=-1892(LC 11), 8=-1017(LC 15)
Max Grav 14=3613(LC 50), 8=2433(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3074/1822, 1-2=-11204/7234, 2-3=-15727/9912, 3-4=-13256/8359, 4-6=-13255/8364, 6-7=-7008/4081, 7-8=-2331/1351
BOT CHORD 13-14=-1081/1241, 12-13=-7280/11194, 10-12=-9955/15698, 9-10=-4108/6982
WEBS 1-13=-6619/10618, 2-13=-1594/846, 2-12=-3019/4804, 3-12=-596/615, 3-10=-2634/1612, 4-10=-499/202, 6-10=-4485/6533, 6-9=-2169/1435, 7-9=-4237/7212

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1892, 8=1017.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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Continued on page 2

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NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 4-0-0 oc max. starting at 2-0-12 from the left end to 20-0-12 to connect truss(es) to front face of bottom chord.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 12-0-12 from the left end to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-851(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-646(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-646(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-646(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-851(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-851(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 13=188(F) 18=189(F) 19=189(F) 20=23(F) 21=188(F) 22=253(F) 23=187(F) 24=186(F) 25=186(F) 26=186(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 13=188(F) 18=189(F) 19=189(F) 20=23(F) 21=188(F) 22=253(F) 23=187(F) 24=186(F) 25=186(F) 26=186(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 13=188(F) 18=189(F) 19=189(F) 20=23(F) 21=188(F) 22=253(F) 23=187(F) 24=186(F) 25=186(F) 26=186(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10

Continued on page 3

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 13=188(F) 18=189(F) 19=189(F) 20=23(F) 21=188(F) 22=253(F) 23=187(F) 24=186(F) 25=186(F) 26=186(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 13=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-851(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 13=-330(F) 18=-330(F) 19=-330(F) 20=-98(F) 21=-329(F) 22=-725(F) 23=-328(F) 24=-328(F) 25=-327(F) 26=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 13=-330(F) 18=-330(F) 19=-330(F) 20=-98(F) 21=-329(F) 22=-725(F) 23=-328(F) 24=-328(F) 25=-327(F) 26=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 13=-330(F) 18=-330(F) 19=-330(F) 20=-98(F) 21=-329(F) 22=-725(F) 23=-328(F) 24=-328(F) 25=-327(F) 26=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 13=-330(F) 18=-330(F) 19=-330(F) 20=-98(F) 21=-329(F) 22=-725(F) 23=-328(F) 24=-328(F) 25=-327(F) 26=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M12	Monopitch	1	1	I52022182
					Job Reference (optional)

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ID:y_uuvDN0jRYpvc1tIut_eUysaxg-j1T9zGVqAZsSsXhPox6lLzfuZrhhbb8EcynfuYzFIoU

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11	33-8-11
6-4-2	6-4-2	6-4-3	6-4-2	6-4-2	2-0-0

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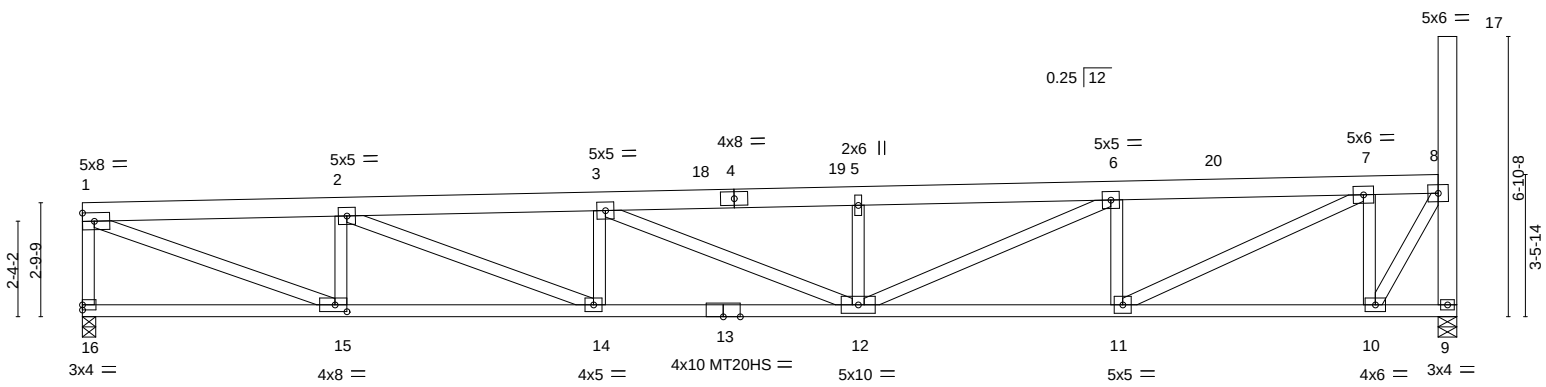

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11	33-8-11
6-4-2	6-4-2	6-4-3	6-4-2	6-4-2	2-0-0

Plate Offsets (X,Y)-- [15:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.32	12-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.66	12-14	>608	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-10 oc bracing.

REACTIONS. (size) 16=0-3-15, 9=0-5-8
Max Horz 16=196(LC 12)
Max Grav 16=1672(LC 21), 9=1876(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1608/303, 1-2=-3411/553, 2-3=-4972/834, 3-5=-5001/881, 5-6=-5001/887, 6-7=-3657/729, 7-8=-1168/397, 8-9=-1865/287
BOT CHORD 15-16=-292/186, 14-15=-711/3405, 12-14=-859/4965, 11-12=-527/3650, 10-11=-192/1164
WEBS 1-15=-600/3585, 2-15=-1182/303, 2-14=-297/1682, 3-14=-503/185, 5-12=-509/170, 6-12=-297/1483, 6-11=-1111/296, 7-11=-489/2777, 7-10=-1732/353, 8-10=-331/2138

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-15, Corner(3) 18-5-15 to 33-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 20=-70-to-8=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-60, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-67, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-39, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-79, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-79-to-8=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-42, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 1-16=13, 1-8=-9, 8-9=3, 8-17=27
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 1-16=-3, 1-8=-3, 8-9=-13, 8-17=-27
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 1-16=10, 1-8=-9, 8-9=2, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 1-16=-2, 1-8=-3, 8-9=-10, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-70, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-70-to-8=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M13	Monopitch	4	1	I52022183
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek

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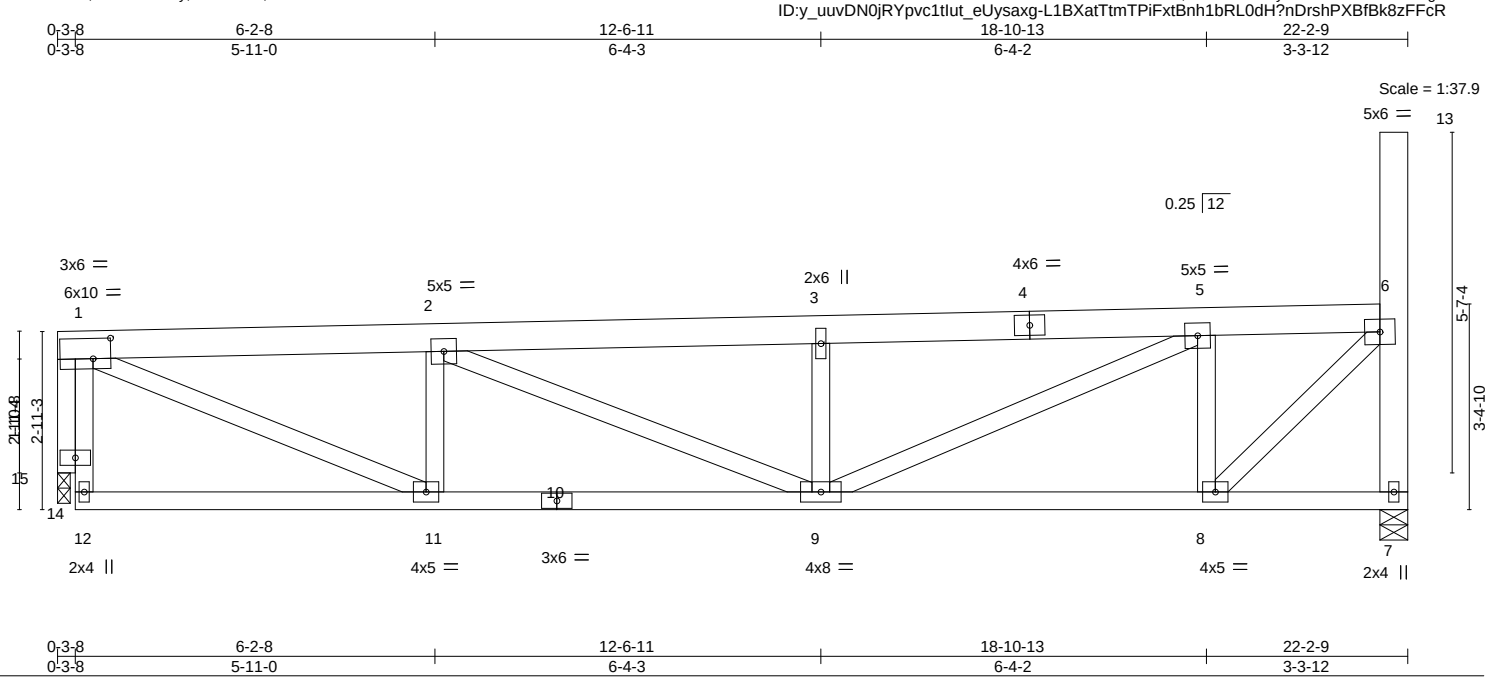

Plate Offsets (X,Y)-- [1:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.08	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	9-11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 148 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 5-0-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-8-12 oc bracing: 9-11.

REACTIONS. (size) 7=0-5-8, 15=0-2-8
Max Horz 15=164(LC 14)
Max Grav 7=1273(LC 22), 15=1051(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1883/542, 2-3=-2219/666, 3-4=-2219/671, 4-5=-2214/672, 5-6=-1159/456, 6-7=-1251/314
BOT CHORD	10-11=-575/1878, 9-10=-575/1878, 8-9=-262/1154
WEBS	2-11=-632/281, 2-9=-127/364, 3-9=-503/237, 5-9=-391/1169, 5-8=-999/312, 6-8=-350/1573, 1-11=-503/1848, 1-15=-1068/283

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
8) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 7-12=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 4=-67-to-6=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-58-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-65, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-63-to-6=-125

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-37-to-6=-99

21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-30, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-27-to-6=-110

22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-77, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-74-to-6=-157

23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-39-to-6=-122

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-51, 7-12=-20
Horz: 12-14=13, 1-6=-9, 6-7=3, 6-13=27
Trapezoidal Loads (plf)
Vert: 4=-49-to-6=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-57, 7-12=-20
Horz: 12-14=-3, 1-6=-3, 6-7=-13, 6-13=-27
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-117

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-51, 7-12=-20
Horz: 12-14=10, 1-6=-9, 6-7=2, 6-13=18
Trapezoidal Loads (plf)
Vert: 4=-49-to-6=-111

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-57, 7-12=-20
Horz: 12-14=-2, 1-6=-3, 6-7=-10, 6-13=18
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-117

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 4=-67-to-6=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M13G	MONOPITCH GIRDER	1	2	I52022184
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:50 2022 Page 1
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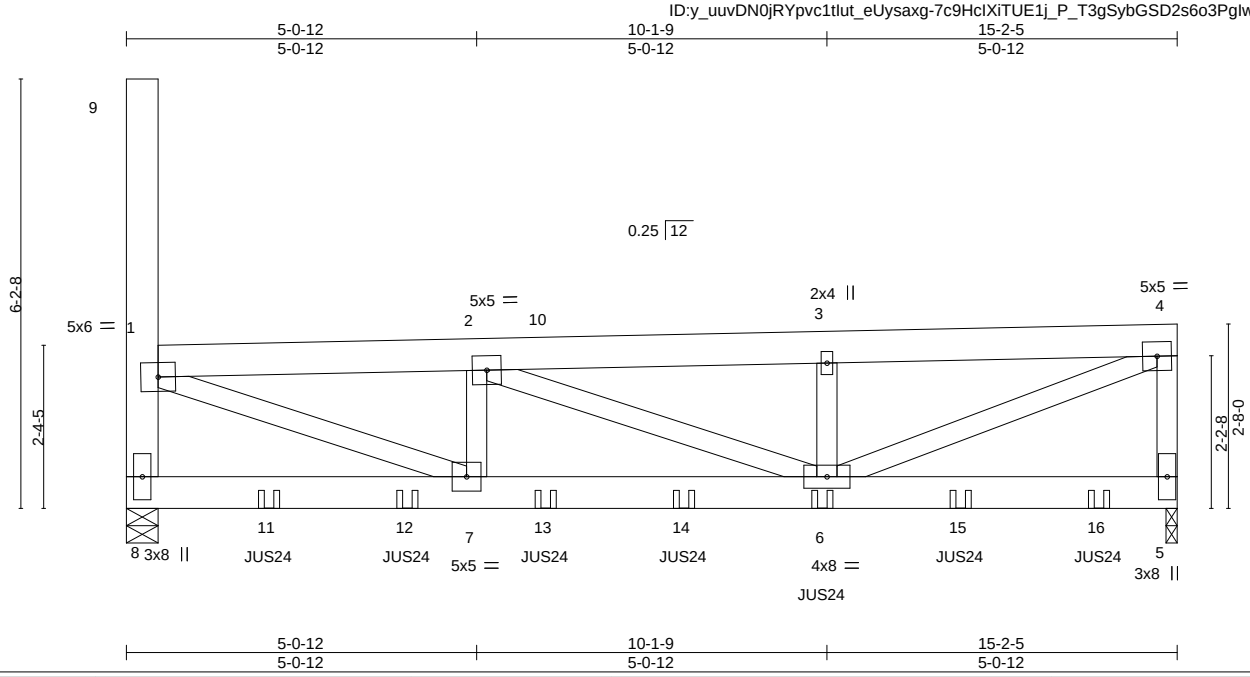

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.06	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.07	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 225 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-1-15
Max Horz 8=192(LC 12)
Max Uplift 8=-889(LC 11), 5=-978(LC 15)
Max Grav 8=1756(LC 50), 5=1708(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1517/1055, 1-2=-3090/2315, 2-3=-2875/2132, 3-4=-2874/2137, 4-5=-1351/1024
BOT CHORD 7-8=-474/590, 6-7=-2362/3088
WEBS 1-7=-2243/3081, 2-7=-345/317, 2-6=-286/203, 3-6=-413/263, 4-6=-2363/3149

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=889, 5=978.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-70, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-184(B) 11=-184(B) 12=-184(B) 13=-184(B) 14=-184(B) 15=-184(B) 16=-184(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-10=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-60, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-148(B) 11=-148(B) 12=-148(B) 13=-148(B) 14=-148(B) 15=-148(B) 16=-148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-10=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-65, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-148(B) 11=-148(B) 12=-148(B) 13=-148(B) 14=-148(B) 15=-148(B) 16=-148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-10=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-39, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-148(B) 11=-148(B) 12=-148(B) 13=-148(B) 14=-148(B) 15=-148(B) 16=-148(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-10=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-77, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-184(B) 11=-184(B) 12=-184(B) 13=-184(B) 14=-184(B) 15=-184(B) 16=-184(B)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-10=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-10=-42, 5-8=-20
   Concentrated Loads (lb)
   Vert: 6=-184(B) 11=-184(B) 12=-184(B) 13=-184(B) 14=-184(B) 15=-184(B) 16=-184(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-10=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-10=-51, 5-8=-20
   Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
   Concentrated Loads (lb)
   Vert: 6=122(B) 11=123(B) 12=123(B) 13=123(B) 14=122(B) 15=121(B) 16=121(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-10=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-10=-57, 5-8=-20
   Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
   Concentrated Loads (lb)
   Vert: 6=122(B) 11=123(B) 12=123(B) 13=123(B) 14=122(B) 15=121(B) 16=121(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-10=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-10=-51, 5-8=-20
   Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
   Concentrated Loads (lb)
   Vert: 6=122(B) 11=123(B) 12=123(B) 13=123(B) 14=122(B) 15=121(B) 16=121(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-10=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-10=-57, 5-8=-20
   Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
   Concentrated Loads (lb)
   Vert: 6=122(B) 11=123(B) 12=123(B) 13=123(B) 14=122(B) 15=121(B) 16=121(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-10=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-184(B) 11=-184(B) 12=-184(B) 13=-184(B) 14=-184(B) 15=-184(B) 16=-184(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Concentrated Loads (lb)
Vert: 6=-304(B) 11=-306(B) 12=-305(B) 13=-305(B) 14=-305(B) 15=-304(B) 16=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Concentrated Loads (lb)
Vert: 6=-304(B) 11=-306(B) 12=-305(B) 13=-305(B) 14=-305(B) 15=-304(B) 16=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Concentrated Loads (lb)
Vert: 6=-304(B) 11=-306(B) 12=-305(B) 13=-305(B) 14=-305(B) 15=-304(B) 16=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Concentrated Loads (lb)
Vert: 6=-304(B) 11=-306(B) 12=-305(B) 13=-305(B) 14=-305(B) 15=-304(B) 16=-304(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M14	Monopitch	5	1	I52022185
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-bpifpdYKEnMuL8_A1mBhVppXdS78XV0qXalt1KzFIoQ

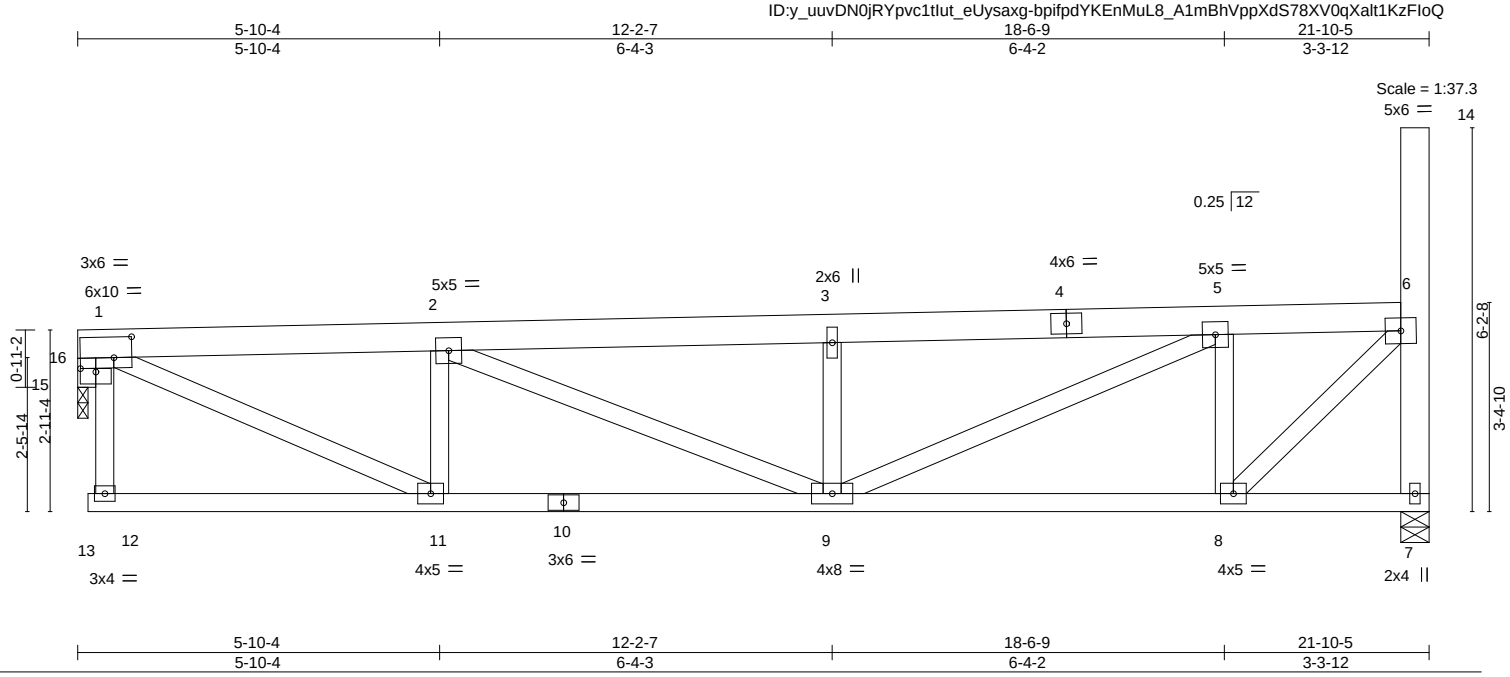

Plate Offsets (X,Y)-- [1:0-3-8,0-4-0], [15:0-3-0,0-0-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.08	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.17	9-11	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 144 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-14: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-8-3 oc bracing: 9-11.

REACTIONS. (size) 7=0-5-8, 16=0-2-0
Max Horz 16=170(LC 14)
Max Grav 7=1256(LC 22), 16=1038(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1784/593, 2-3=-2163/700, 3-5=-2163/707, 5-6=-1141/468, 6-7=-1234/295
BOT CHORD	9-11=-456/1781, 8-9=-273/1136
WEBS	1-11=-450/1790, 2-11=-664/269, 2-9=-110/409, 3-9=-499/237, 5-9=-338/1126, 5-8=-983/323, 6-8=-365/1548, 1-16=-1166/304

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 7-13=-20
Trapezoidal Loads (plf)
Vert: 4=-72-to-6=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-61-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-65, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-67-to-6=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-39, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-40-to-6=-99
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
      Vert: 1-4=-30, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-32-to-6=-110
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-77, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-79-to-6=-157
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-42, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-44-to-6=-122
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-51, 7-13=-20
      Horz: 12-15=13, 1-6=-9, 6-7=3, 6-14=27
   Trapezoidal Loads (plf)
      Vert: 4=-53-to-6=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-57, 7-13=-20
      Horz: 12-15=-3, 1-6=-3, 6-7=-13, 6-14=-27
   Trapezoidal Loads (plf)
      Vert: 4=-58-to-6=-117
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-51, 7-13=-20
      Horz: 12-15=10, 1-6=-9, 6-7=2, 6-14=18
   Trapezoidal Loads (plf)
      Vert: 4=-53-to-6=-111
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-4=-57, 7-13=-20
      Horz: 12-15=-2, 1-6=-3, 6-7=-10, 6-14=18
   Trapezoidal Loads (plf)
      Vert: 4=-58-to-6=-117
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-70, 7-13=-20
   Trapezoidal Loads (plf)
      Vert: 4=-72-to-6=-150

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M14G	MONOPITCH GIRDER	1	2	I52022186
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:52 2022 Page 1
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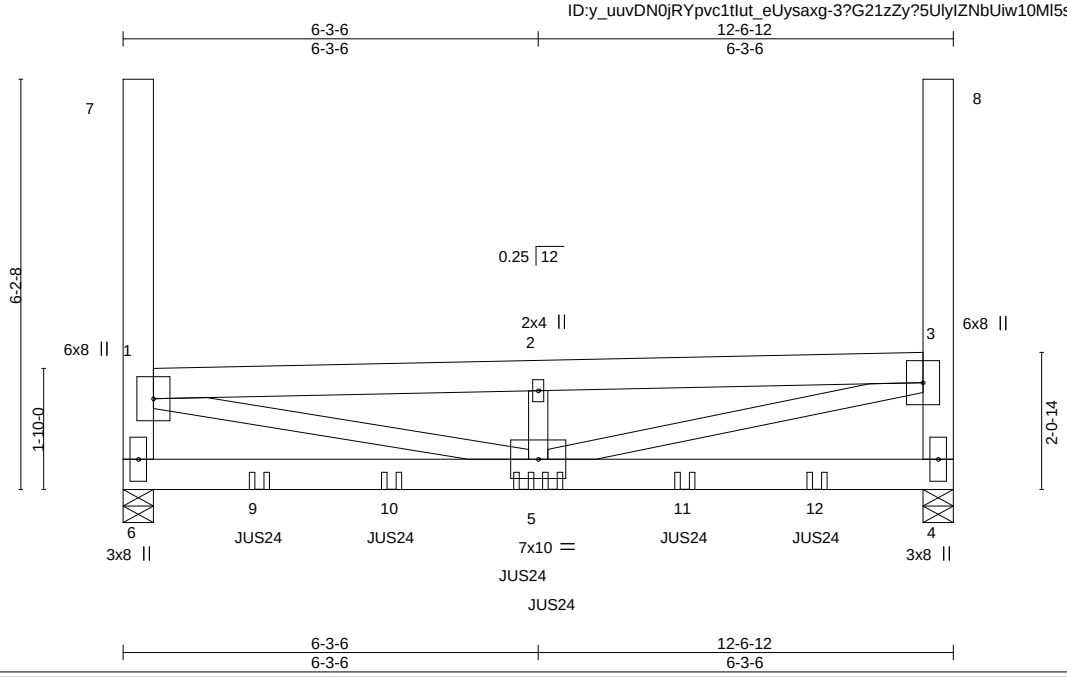

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.09	5-6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	5	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 204 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=299(LC 12)
Max Uplift 6=-876(LC 11), 4=-831(LC 12)
Max Grav 6=1819(LC 54), 4=1784(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1478/993, 1-2=-4213/2398, 2-3=-4205/2402, 3-4=-1446/996
BOT CHORD 5-6=-1126/1116, 4-5=-398/531
WEBS 1-5=-2960/3946, 2-5=-703/473, 3-5=-2972/4020

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=876, 4=831.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-6-0 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-150, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-368(B) 9=-184(B) 10=-184(B) 11=-184(B) 12=-184(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-120, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-296(B) 9=-148(B) 10=-148(B) 11=-148(B) 12=-148(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-125, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-296(B) 9=-148(B) 10=-148(B) 11=-148(B) 12=-148(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-296(B) 9=-148(B) 10=-148(B) 11=-148(B) 12=-148(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-157, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-368(B) 9=-184(B) 10=-184(B) 11=-184(B) 12=-184(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-368(B) 9=-184(B) 10=-184(B) 11=-184(B) 12=-184(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-111, 4-6=-20
   Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18
   Concentrated Loads (lb)
   Vert: 5=254(B) 9=127(B) 10=127(B) 11=127(B) 12=126(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-117, 4-6=-20
   Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27
   Concentrated Loads (lb)
   Vert: 5=254(B) 9=127(B) 10=127(B) 11=127(B) 12=126(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-111, 4-6=-20
   Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18
   Concentrated Loads (lb)
   Vert: 5=254(B) 9=127(B) 10=127(B) 11=127(B) 12=126(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-117, 4-6=-20
   Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18
   Concentrated Loads (lb)
   Vert: 5=254(B) 9=127(B) 10=127(B) 11=127(B) 12=126(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-150, 4-6=-20
   Concentrated Loads (lb)
   Vert: 5=-368(B) 9=-184(B) 10=-184(B) 11=-184(B) 12=-184(B)
53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-111, 4-6=-20
   Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18
   Concentrated Loads (lb)
   Vert: 5=-619(B) 9=-310(B) 10=-310(B) 11=-309(B) 12=-309(B)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-117, 4-6=-20
   Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27
   Concentrated Loads (lb)
   Vert: 5=-619(B) 9=-310(B) 10=-310(B) 11=-309(B) 12=-309(B)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-111, 4-6=-20
   Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-619(B) 9=-310(B) 10=-310(B) 11=-309(B) 12=-309(B)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-117, 4-6=-20

Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18

Concentrated Loads (lb)

Vert: 5=-619(B) 9=-310(B) 10=-310(B) 11=-309(B) 12=-309(B)

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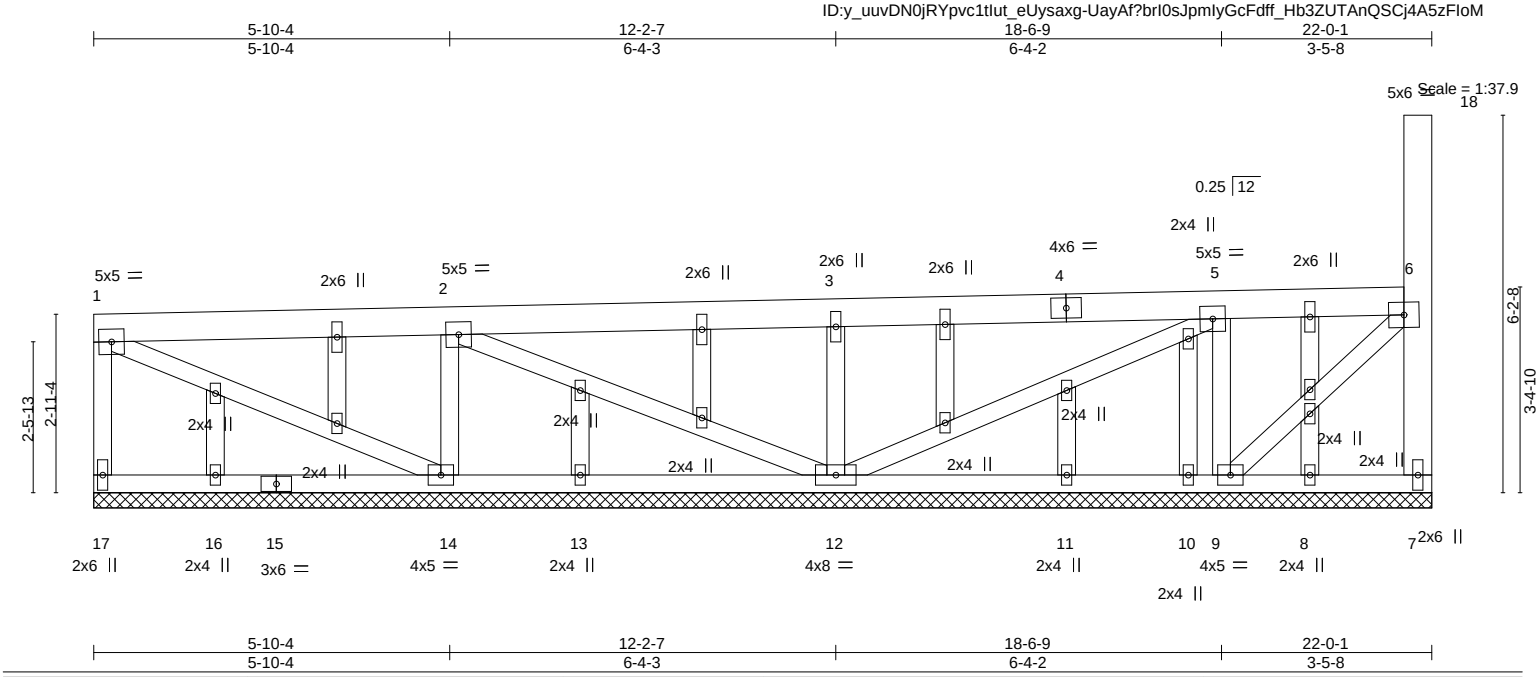
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M14S	GABLE	1	1	I52022187
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-UayAf?brI0sJpmIyGcFdff_Hb3ZUTAnQSCj4A5zFIoM



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.01	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 165 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-18: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 4-11-10 oc bracing: 14-16 5-2-5 oc bracing: 12-13.

REACTIONS. All bearings 22-0-1.
(lb) - Max Horz 17=173(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 14, 12, 8 except 17=-653(LC 44), 7=-978(LC 47), 9=-558(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 16, 13, 11, 10, 8 except 17=707(LC 51), 7=1016(LC 48), 14=547(LC 21), 12=636(LC 21), 9=818(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-686/642, 1-2=-1340/1326, 2-3=-1334/1267, 3-5=-1445/1392, 5-6=-1191/1100, 6-7=-990/1064
BOT CHORD	16-17=-652/502, 14-16=-1423/1272, 13-14=-465/383, 12-13=-1305/1224, 11-12=-963/946, 10-11=-287/260, 9-10=-385/380, 8-9=-667/647, 7-8=-377/386
WEBS	1-14=-1449/1521, 2-14=-763/687, 2-12=-1193/1214, 3-12=-501/241, 5-12=-1169/1144, 5-9=-744/608, 6-9=-1461/1401

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 12, 8 except (jt=lb) 17=653, 7=978, 9=558.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 22-0-1 for 200.0 plf.

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-65, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-65-to-6=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-39, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-39-to-6=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-77, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-77-to-6=-157
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-42, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 4=-42-to-6=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-51, 7-17=-20
   Horz: 1-17=13, 1-6=-9, 6-7=3, 6-18=27
   Trapezoidal Loads (plf)
   Vert: 4=-51-to-6=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-57, 7-17=-20
   Horz: 1-17=-3, 1-6=-3, 6-7=-13, 6-18=-27
   Trapezoidal Loads (plf)
   Vert: 4=-57-to-6=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-51, 7-17=-20
   Horz: 1-17=10, 1-6=-9, 6-7=2, 6-18=18
   Trapezoidal Loads (plf)
   Vert: 4=-51-to-6=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-57, 7-17=-20
   Horz: 1-17=-2, 1-6=-3, 6-7=-10, 6-18=18
   Trapezoidal Loads (plf)
   Vert: 4=-57-to-6=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-57, 7-17=-20
   Horz: 1-2=7200, 2-5=7200, 5-6=7200
   Drag: 7-17=-150
   Trapezoidal Loads (plf)
   Vert: 4=-57-to-6=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-63, 7-17=-20
   Horz: 1-3=-7200, 3-5=-7200, 5-6=-7200
   Drag: 7-17=150
   Trapezoidal Loads (plf)
   Vert: 4=-63-to-6=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-62, 7-17=-20
   Horz: 1-2=7200, 2-5=7200, 5-6=7200
   Drag: 7-17=-150
   Trapezoidal Loads (plf)
   Vert: 4=-62-to-6=-122

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-69, 7-17=-20
Horz: 1-3=-7200, 3-5=-7200, 5-6=-7200
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-68-to-6=-129

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 7-17=-20
Horz: 1-3=7200, 3-5=7200, 5-6=7200
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 4=-36-to-6=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-42, 7-17=-20
Horz: 1-2=-7200, 2-5=-7200, 5-6=-7200
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-42-to-6=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-48, 7-17=-20
Horz: 1-17=13, 1-2=7191, 2-5=7191, 5-6=7191, 6-7=3, 6-18=27
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 4=-48-to-6=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-54, 7-17=-20
Horz: 1-17=13, 1-3=-7209, 3-5=-7209, 5-6=-7209, 6-7=3, 6-18=27
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-54, 7-17=-20
Horz: 1-17=-3, 1-2=7197, 2-5=7197, 5-6=7197, 6-7=-13, 6-18=-27
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-60, 7-17=-20
Horz: 1-17=-3, 1-3=-7203, 3-5=-7203, 5-6=-7203, 6-7=-13, 6-18=-27
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-48, 7-17=-20
Horz: 1-17=10, 1-2=7191, 2-5=7191, 5-6=7191, 6-7=2, 6-18=18
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 4=-48-to-6=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-54, 7-17=-20
Horz: 1-17=10, 1-3=-7209, 3-5=-7209, 5-6=-7209, 6-7=2, 6-18=18
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-54, 7-17=-20
Horz: 1-17=-2, 1-2=7197, 2-5=7197, 5-6=7197, 6-7=-10, 6-18=18
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 4=-54-to-6=-114

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-60, 7-17=-20
Horz: 1-17=-2, 1-3=-7203, 3-5=-7203, 5-6=-7203, 6-7=-10, 6-18=18
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 4=-60-to-6=-120

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M15	Monopitch	5	1	I52022188
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:56 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ymWYsLcT3K_ARvt8qKnsCsWOsTlUCeSZhsSeiXzFIoL

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

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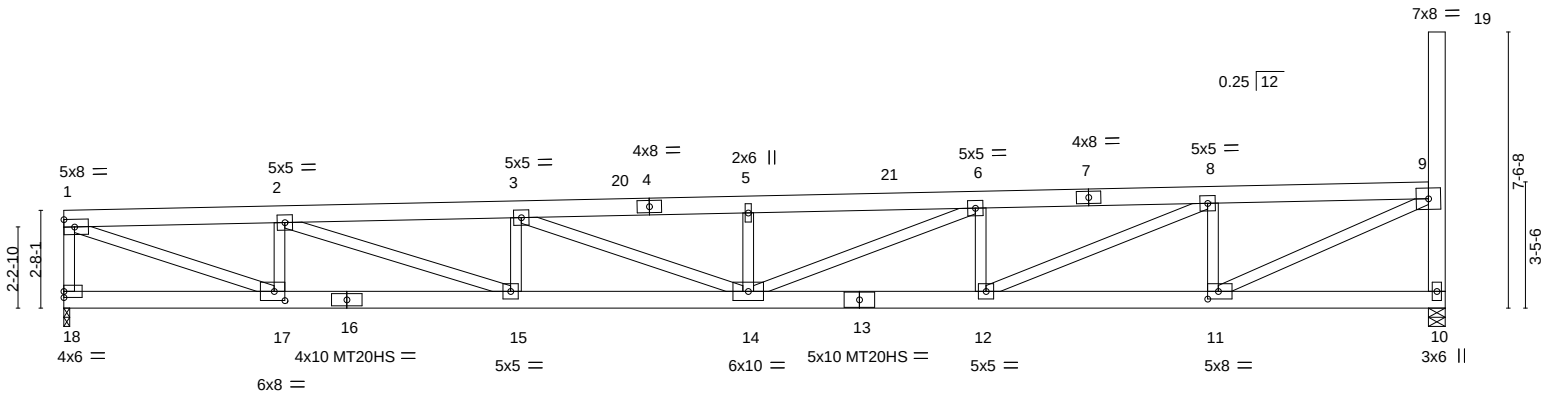

5-10-11	12-4-3	18-8-5	25-0-8	31-4-10	37-8-12
5-10-11	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8], [17:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.47	14	>944	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.93	14-15	>480	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 267 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-19: 2x6 SP No.1, 1-17: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.

REACTIONS. (size) 18=0-1-15 (req. 0-2-4), 10=0-5-8
Max Horz 18=219(LC 12)
Max Grav 18=1884(LC 21), 10=2101(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1809/285, 1-2=-4010/554, 2-3=-6333/907, 3-5=-6852/1020, 5-6=-6852/1025, 6-8=-5856/948, 8-9=-3579/701, 9-10=-2017/309
BOT CHORD 17-18=-317/207, 15-17=-726/4004, 14-15=-930/6326, 12-14=-731/5849, 11-12=-479/3572
WEBS 1-17=-592/4204, 2-17=-1402/298, 2-15=-369/2469, 3-15=-716/201, 3-14=-116/558, 5-14=-509/156, 6-14=-217/1084, 6-12=-898/243, 8-12=-402/2500, 8-11=-1580/295, 9-11=-502/3826

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-0, Corner(3) 22-6-0 to 37-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-18=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-68, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-68-to-9=-128

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-80, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-80-to-9=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-18=-20
Horz: 1-18=13, 1-9=-9, 9-10=3, 9-19=27
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-18=-20
Horz: 1-18=-3, 1-9=-3, 9-10=-13, 9-19=-27
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-18=-20
Horz: 1-18=10, 1-9=-9, 9-10=2, 9-19=18
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-18=-20
Horz: 1-18=-2, 1-9=-3, 9-10=-10, 9-19=18
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-18=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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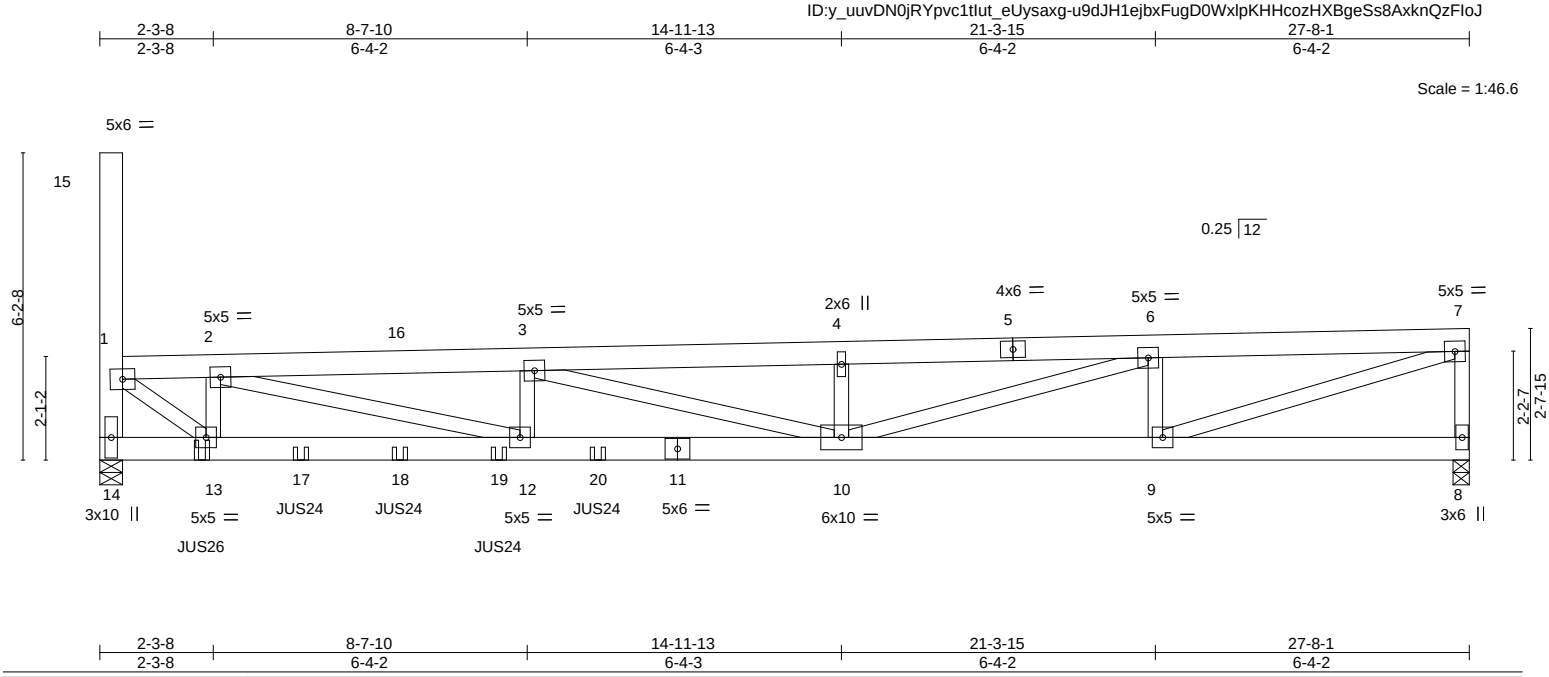
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M15G	MONOPITCH GIRDER	1	2	I52022189
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:58 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-u9dJH1ejbxFugD0WxlpKHHcozHXBgeSs8AxknQzFIoJ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.25	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.36	10-12	>901	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 385 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-10-5 oc bracing: 10-12.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=202(LC 40)
Max Uplift 14=-1262(LC 11), 8=-314(LC 15)
Max Grav 14=2878(LC 50), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3081/1844, 1-2=-3956/2581, 2-3=-7242/4601, 3-4=-6200/3358, 4-6=-6201/3365, 6-7=-3864/1733, 7-8=-1486/664
BOT CHORD 13-14=-490/607, 12-13=-2634/3956, 10-12=-4648/7237, 9-10=-1763/3858
WEBS 1-13=-2742/4633, 2-13=-1427/798, 2-12=-2363/3694, 3-12=-772/724, 3-10=-1570/1644, 4-10=-499/224, 6-10=-1722/2687, 6-9=-1227/705, 7-9=-1819/3990

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1262, 8=314.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to back face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-851(B) 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-646(B) 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-66, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-646(B) 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-16=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-646(B) 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-78, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-851(B) 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-16=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-851(B) 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 13=253(B) 17=187(B) 18=186(B) 19=186(B) 20=186(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 13=253(B) 17=187(B) 18=186(B) 19=186(B) 20=186(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 13=253(B) 17=187(B) 18=186(B) 19=186(B) 20=186(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 13=253(B) 17=187(B) 18=186(B) 19=186(B) 20=186(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 13=-851(B) 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 13=-725(B) 17=-328(B) 18=-328(B) 19=-327(B) 20=-327(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 13=-725(B) 17=-328(B) 18=-328(B) 19=-327(B) 20=-327(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 13=-725(B) 17=-328(B) 18=-328(B) 19=-327(B) 20=-327(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 13=-725(B) 17=-328(B) 18=-328(B) 19=-327(B) 20=-327(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M16	Monopitch	8	1	I52022190
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:44:59 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-MLBhVNeLMFNlINbjVSKZqV8zlgp5P1Z?NqhIJszFIoI

5-10-11	12-4-3	18-8-5	25-0-8	31-0-11
5-10-11	6-5-8	6-4-2	6-4-3	6-0-3

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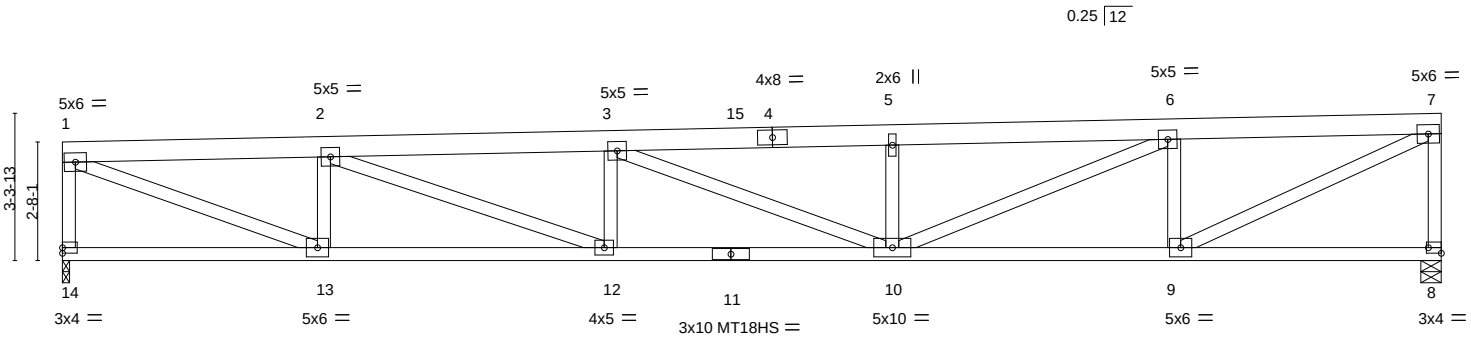

5-10-11	12-4-3	18-8-5	25-0-8	31-0-11
5-10-11	6-5-8	6-4-2	6-4-3	6-0-3

Plate Offsets (X,Y)-- [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.26	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.54	10-12	>679	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 185 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS. (size) 14=0-1-15, 8=0-5-8
Max Horz 14=63(LC 12)
Max Grav 14=1523(LC 21), 8=1523(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1465/288, 1-2=-3044/532, 2-3=-4477/766, 3-5=-4272/740, 5-6=-4272/745, 6-7=-2668/484, 7-8=-1466/293
BOT CHORD	12-13=-592/3039, 10-12=-818/4471, 9-10=-485/2662
WEBS	1-13=-559/3208, 2-13=-1071/289, 2-12=-263/1529, 3-12=-410/169, 5-10=-502/181, 6-10=-311/1755, 6-9=-1190/314, 7-9=-518/2934

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-10-15, Corner(3) 15-10-15 to 30-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M16G	Monopitch Girder	2	1	I52022191
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-qXl3iifz6YVcwXAv39roMih3X48D8S_9cUQrrIzFIoH

4-3-8	10-7-10	16-11-13	23-3-15	29-8-1
4-3-8	6-4-2	6-4-3	6-4-2	6-4-2

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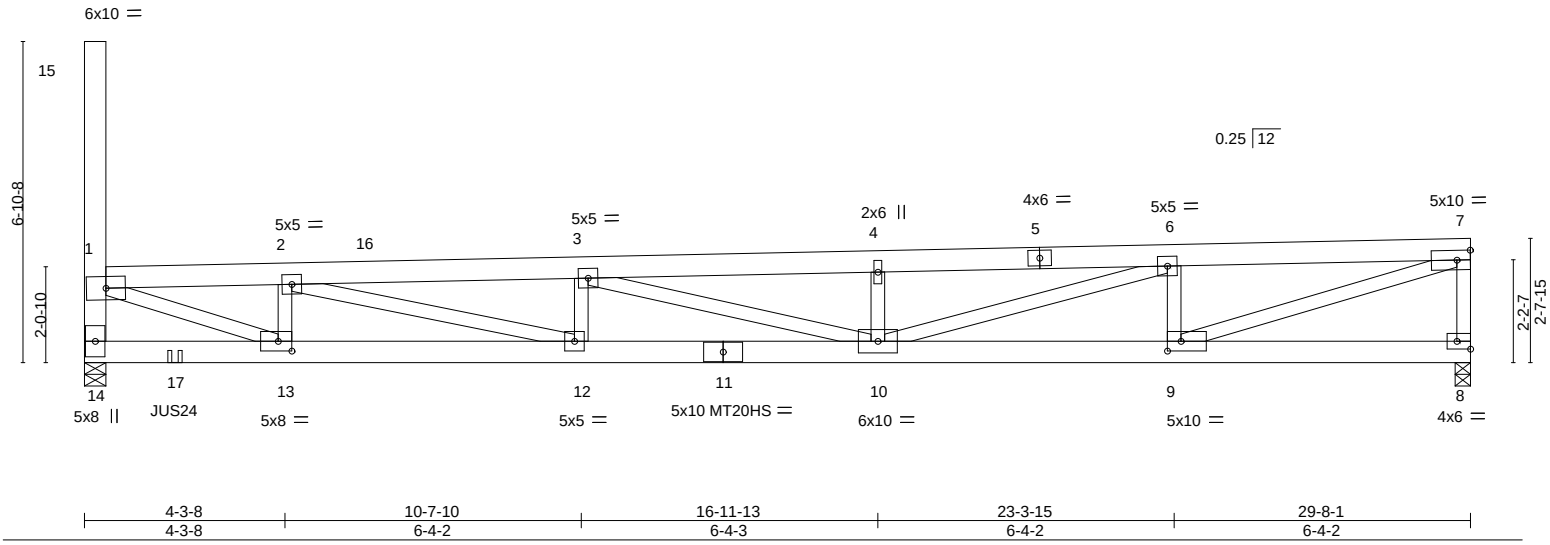

4-3-8	10-7-10	16-11-13	23-3-15	29-8-1
4-3-8	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.36	10-12	>966	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.72	10-12	>489	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=227(LC 12)
Max Uplift 14=-354(LC 11)
Max Grav 14=1800(LC 21), 8=1470(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1631/465, 1-2=-3478/1351, 2-3=-5625/1491, 3-4=-5538/1294, 4-6=-5538/1299, 6-7=-3568/777, 7-8=-1388/340
BOT CHORD 13-14=-650/784, 12-13=-1403/3471, 10-12=-1537/5618, 9-10=-807/3562
WEBS 1-13=-971/3459, 2-13=-1120/356, 2-12=-771/2221, 3-12=-464/265, 3-10=-258/210, 4-10=-489/188, 6-10=-556/2072, 6-9=-1121/365, 7-9=-821/3681

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=354.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 17=247(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 17=247(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 17=247(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 17=247(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-388(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-388(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-388(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-388(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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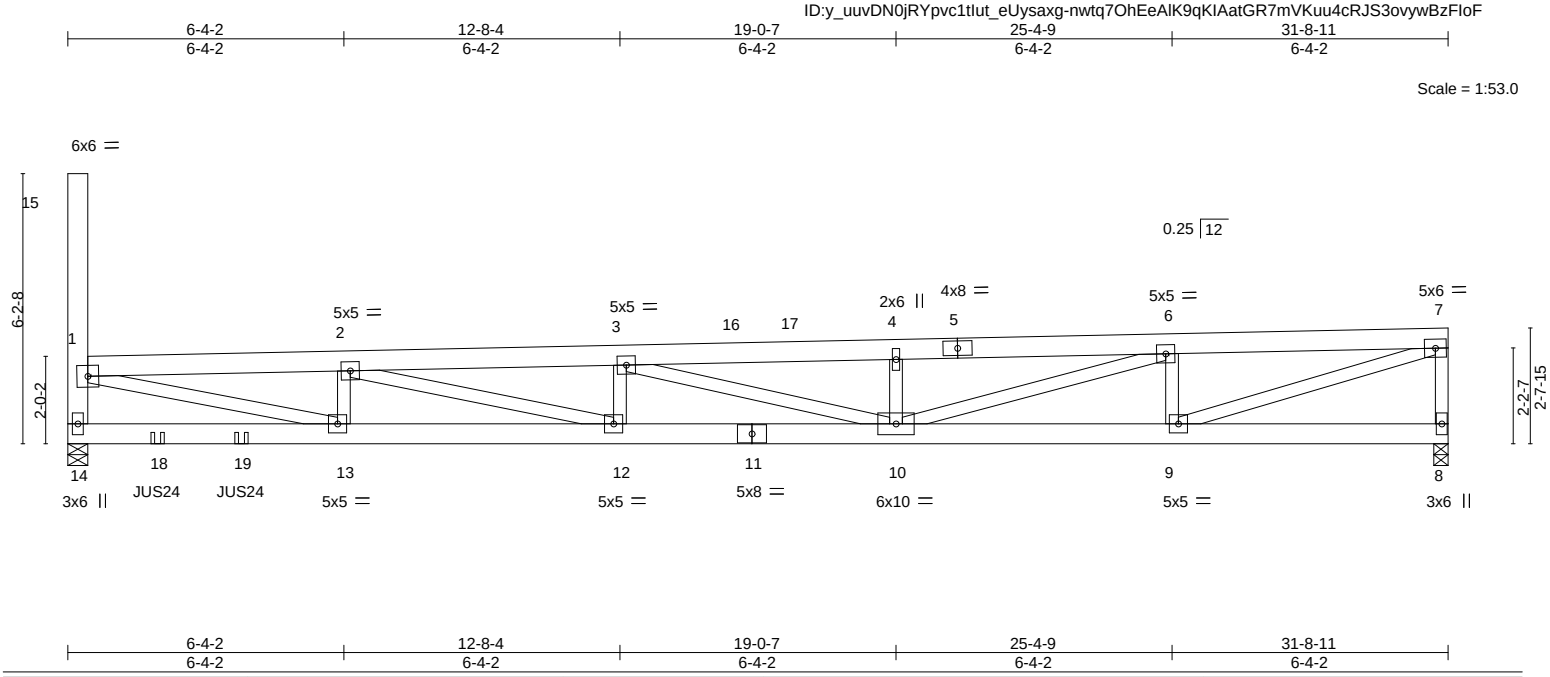
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M17G	MONOPITCH GIRDER	1	2	I52022192
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-nwtq7OhEeAlK9qKIAatGR7mVKuu4cRJS3ovywBzFIoF



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.26	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.50	10-12	>759	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 434 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=205(LC 12)
Max Uplift 14=-270(LC 11)
Max Grav 14=2049(LC 21), 8=1596(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1759/480, 1-2=-5225/1711, 2-3=-6884/1677, 3-4=-6321/1379, 4-6=-6321/1384, 6-7=-3936/802, 7-8=-1512/345
BOT CHORD	13-14=-623/726, 12-13=-1762/5215, 10-12=-1722/6877, 9-10=-831/3930
WEBS	1-13=-1392/4848, 2-13=-991/394, 2-12=-750/1800, 3-12=-328/232, 3-10=-585/315, 4-10=-491/180, 6-10=-618/2508, 6-9=-1250/374, 7-9=-847/4065

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=270.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-11-2 oc max. starting at 2-0-12 from the left end to 3-11-14 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 18=23(B) 19=188(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 18=23(B) 19=188(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 18=23(B) 19=188(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 18=23(B) 19=188(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 18=-146(B) 19=-146(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 18=-98(B) 19=-329(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 18=-98(B) 19=-329(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 18=-98(B) 19=-329(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 18=-98(B) 19=-329(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

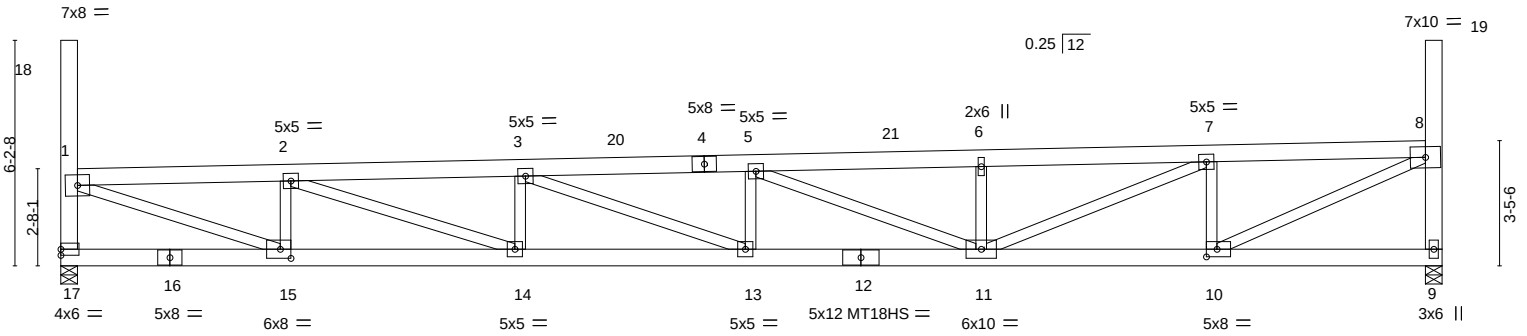
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M18	Monopitch	3	1	I52022193
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:03 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-F6RCKkisPTtBn_vUklPV_LJbnI71LpzbISfVSdzFIoE

6-2-4	12-7-12	18-11-14	25-4-1	31-8-3	38-0-5
6-2-4	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

Scale: 3/16"=1'



6-2-4	12-7-12	18-11-14	25-4-1	31-8-3	38-0-5
6-2-4	6-5-8	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [10:0-3-8,0-2-8], [15:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.50	13	>905	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.97	13-14	>467	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.13	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 275 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
17-18,9-19: 2x6 SP No.1, 1-15: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-10 oc bracing.

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=260(LC 12)
Max Grav 17=2121(LC 21), 9=2125(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-2028/302, 1-2=-4333/682, 2-3=-6568/865, 3-5=-7026/833, 5-6=-5961/768, 6-7=-5960/773, 7-8=-3630/560, 8-9=-2041/305
BOT CHORD 15-17=-492/464, 14-15=-894/4324, 13-14=-1072/6561, 11-13=-1035/7020, 10-11=-443/3622
WEBS 1-15=-619/4392, 2-15=-1436/294, 2-14=-417/2379, 3-14=-681/220, 3-13=-159/492, 5-11=-1152/232, 6-11=-488/158, 7-11=-414/2559, 7-10=-1603/312, 8-10=-527/3881

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 7=-70-to-8=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60, 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-68, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-128-to-2=-68, 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39, 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-80, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-160-to-2=-80, 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42, 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 9-17=-20
      Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51, 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 9-17=-20
      Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57, 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 9-17=-20
      Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51, 7=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 9-17=-20
      Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57, 7=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 9-17=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70, 7=-70-to-8=-150

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Chesterfield, MO 63017

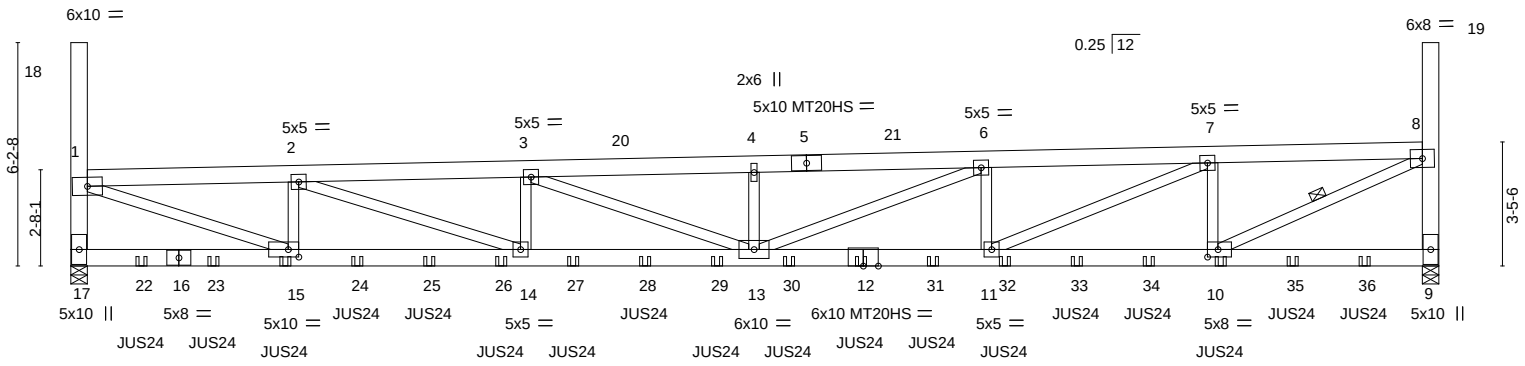
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M18G	MONOPITCH GIRDER	1	2	I52022194
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:07 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7ugjA6lNTiNcFcCFz7TR8BUEYvV?Hd8BD4djbOzFIoA

6-2-4	12-7-12	18-11-14	25-5-6	31-8-14	38-0-5
6-2-4	6-5-8	6-4-2	6-5-8	6-3-8	6-3-7

Scale: 3/16"=1'



6-2-4	12-7-12	18-11-14	25-5-6	31-8-14	38-0-5
6-2-4	6-5-8	6-4-2	6-5-8	6-3-8	6-3-7

Plate Offsets (X,Y)-- [10:0-3-8,0-2-8], [15:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.86	13-14	>524	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.99	13-14	>455	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 550 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 12-16: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 17-18,9-19: 2x6 SP No.1, 1-15: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-5 oc bracing.
WEBS	1 Row at midpt 8-10

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=260(LC 12)
Max Uplift 17=-2818(LC 11), 9=-2739(LC 15)
Max Grav 17=4517(LC 54), 9=4453(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-4090/2828, 1-2=-9772/7193, 2-3=-15139/10958, 3-4=-16206/11599, 4-6=-16206/11604, 6-7=-13742/9854, 7-8=-8224/5892, 8-9=-4063/2808
BOT CHORD	15-17=-732/717, 14-15=-7403/9809, 13-14=-11163/15073, 11-13=-9894/13617, 10-11=-5773/8101, 9-10=-174/266
WEBS	1-15=-7306/10117, 2-15=-2393/1598, 2-14=-4227/5710, 3-14=-814/502, 3-13=-877/1146, 4-13=-506/173, 6-13=-2069/2711, 6-11=-1371/939, 7-11=-4528/6096, 7-10=-2772/1887, 8-10=-6309/8755

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=2818, 9=2739.

May 18,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-9 from the left end to 35-11-9 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 10=-146(B) 12=-146(B) 22=-146(B) 23=-146(B) 24=-146(B) 25=-146(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70, 7=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 10=-117(B) 12=-117(B) 22=-117(B) 23=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60, 7=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 10=-117(B) 12=-117(B) 22=-117(B) 23=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-128-to-2=-68, 7=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 10=-117(B) 12=-117(B) 22=-117(B) 23=-117(B) 24=-117(B) 25=-117(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39, 7=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-80, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 10=-146(B) 12=-146(B) 22=-146(B) 23=-146(B) 24=-146(B) 25=-146(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-160-to-2=-80, 7=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 10=-146(B) 12=-146(B) 22=-146(B) 23=-146(B) 24=-146(B) 25=-146(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42, 7=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 9-17=-20
   Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
   Concentrated Loads (lb)
   Vert: 15=180(B) 10=172(B) 12=175(B) 22=181(B) 23=180(B) 24=179(B) 25=179(B) 26=178(B) 27=177(B) 28=177(B) 29=176(B) 30=176(B) 31=174(B) 32=174(B) 33=173(B) 34=173(B) 35=171(B) 36=170(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51, 7=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 9-17=-20
   Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
   Concentrated Loads (lb)
   Vert: 15=180(B) 10=172(B) 12=175(B) 22=181(B) 23=180(B) 24=179(B) 25=179(B) 26=178(B) 27=177(B) 28=177(B) 29=176(B) 30=176(B) 31=174(B) 32=174(B) 33=173(B) 34=173(B) 35=171(B) 36=170(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57, 7=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
Concentrated Loads (lb)
Vert: 15=180(B) 10=172(B) 12=175(B) 22=181(B) 23=180(B) 24=179(B) 25=179(B) 26=178(B) 27=177(B) 28=177(B) 29=176(B) 30=176(B) 31=174(B) 32=174(B) 33=173(B) 34=173(B) 35=171(B) 36=170(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51, 7=-51-to-8=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
Concentrated Loads (lb)
Vert: 15=180(B) 10=172(B) 12=175(B) 22=181(B) 23=180(B) 24=179(B) 25=179(B) 26=178(B) 27=177(B) 28=177(B) 29=176(B) 30=176(B) 31=174(B) 32=174(B) 33=173(B) 34=173(B) 35=171(B) 36=170(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 9-17=-20
Concentrated Loads (lb)
Vert: 15=-146(B) 10=-146(B) 12=-146(B) 22=-146(B) 23=-146(B) 24=-146(B) 25=-146(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70, 7=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
Concentrated Loads (lb)
Vert: 15=-321(B) 10=-313(B) 12=-316(B) 22=-322(B) 23=-322(B) 24=-321(B) 25=-320(B) 26=-319(B) 27=-319(B) 28=-318(B) 29=-318(B) 30=-317(B) 31=-316(B) 32=-315(B) 33=-315(B) 34=-314(B) 35=-312(B) 36=-312(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51, 7=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 9-17=-20
Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
Concentrated Loads (lb)
Vert: 15=-321(B) 10=-313(B) 12=-316(B) 22=-322(B) 23=-322(B) 24=-321(B) 25=-320(B) 26=-319(B) 27=-319(B) 28=-318(B) 29=-318(B) 30=-317(B) 31=-316(B) 32=-315(B) 33=-315(B) 34=-314(B) 35=-312(B) 36=-312(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
Concentrated Loads (lb)
Vert: 15=-321(B) 10=-313(B) 12=-316(B) 22=-322(B) 23=-322(B) 24=-321(B) 25=-320(B) 26=-319(B) 27=-319(B) 28=-318(B) 29=-318(B) 30=-317(B) 31=-316(B) 32=-315(B) 33=-315(B) 34=-314(B) 35=-312(B) 36=-312(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51, 7=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
Concentrated Loads (lb)
Vert: 15=-321(B) 10=-313(B) 12=-316(B) 22=-322(B) 23=-322(B) 24=-321(B) 25=-320(B) 26=-319(B) 27=-319(B) 28=-318(B) 29=-318(B) 30=-317(B) 31=-316(B) 32=-315(B) 33=-315(B) 34=-314(B) 35=-312(B) 36=-312(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57, 7=-57-to-8=-117

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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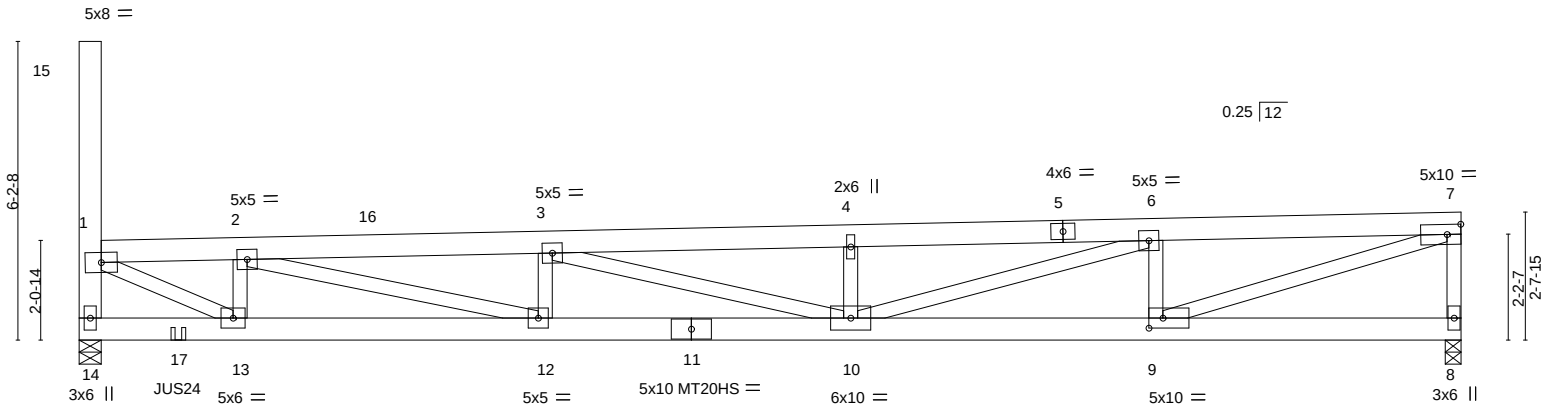
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M19G	Monopitch Girder	1	1	I52022195
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-3GoTbnmd?JdKVvMe5YWvEcZd?iDJlXnTgN6qgHzFIo8

3-4-2	9-8-4	16-0-7	22-4-9	28-8-11
3-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Scale: 1/4"=1'



3-4-2	9-8-4	16-0-7	22-4-9	28-8-11
3-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [9:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.32	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.64	10-12	>535	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-12 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=202(LC 40)
Max Grav 14=1750(LC 21), 8=1423(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1635/334, 1-2=-2834/824, 2-3=-5146/1166, 3-4=-5241/1103, 4-6=-5241/1108, 6-7=-3428/696, 7-8=-1341/315
BOT CHORD 13-14=-449/555, 12-13=-877/2829, 10-12=-1213/5139, 9-10=-726/3422
WEBS 1-13=-570/2992, 2-13=-1188/298, 2-12=-642/2389, 3-12=-517/252, 4-10=-488/190, 6-10=-440/1907, 6-9=-1072/336, 7-9=-736/3535

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20

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Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-66, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-126-to-16=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=23(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=23(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=23(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=23(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-99(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-99(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-99(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-99(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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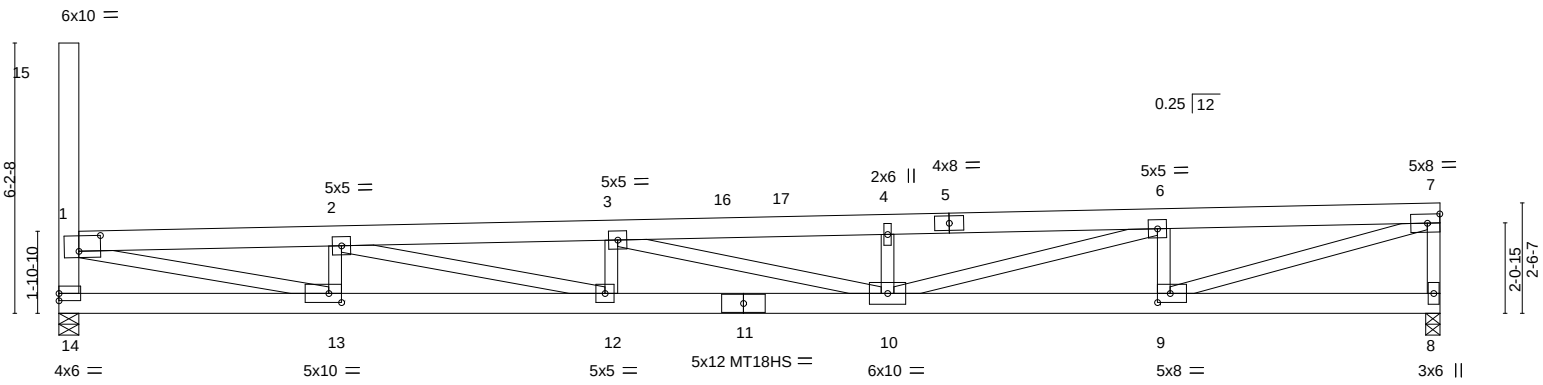
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M20	Monopitch	8	1	I52022196
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:19 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-nBPFhCuueOuviS7ZgfhFejzJvkii54QyzxXM0izFIo_

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:52.9



6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [1:0-6-0,0-4-4], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.51	10-12	>739	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-1.01	10-12	>373	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13,7-9: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=206(LC 12)
Max Grav 14=1783(LC 21), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1643/313, 1-2=-5154/1128, 2-3=-7077/1355, 3-4=-6523/1184, 4-6=-6522/1189, 6-7=-4110/727, 7-8=-1484/304
BOT CHORD 13-14=-547/654, 12-13=-1177/5144, 10-12=-1399/7070, 9-10=-755/4104
WEBS 1-13=-901/4787, 2-13=-1046/288, 2-12=-495/1983, 3-12=-334/195, 3-10=-574/182, 4-10=-484/174, 6-10=-489/2523, 6-9=-1218/329, 7-9=-762/4216

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

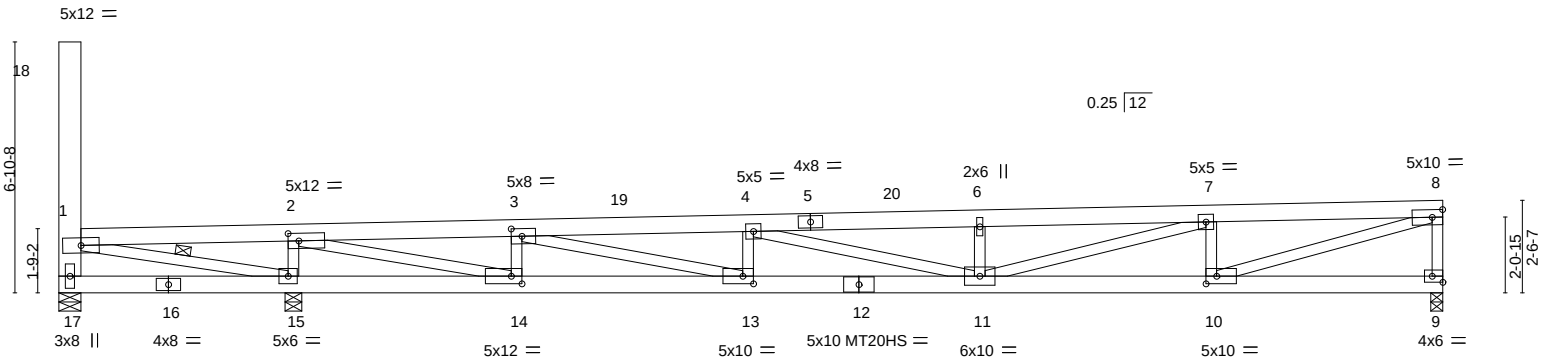
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M21	Monopitch	1	1	I52022197
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:20 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-FOzdvYvWPi0mJcilEMCUAwWOs8_sqWB5CbGvX8zFInz

6-5-2	12-6-8	18-10-10	25-2-13	31-6-15	37-11-1
6-5-2	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

Scale = 1:63.1



6-5-2	12-6-8	18-10-10	25-2-13	31-6-15	37-11-1
6-5-2	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-2-8], [8:0-3-7,0-2-8], [9:Edge,0-2-0], [10:0-3-8,0-2-8], [13:0-3-8,0-2-8], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.42	11-13	>891	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.85	11-13	>444	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 17-18: 2x8 SP 2400F 2.0E, 2-14: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-13 oc bracing.
WEBS	1 Row at midpt 1-15

REACTIONS. (size) 17=0-7-4, 9=0-3-15, 15=0-5-8
Max Horz 17=235(LC 12)
Max Uplift 17=-523(LC 2)
Max Grav 17=35(LC 15), 9=1396(LC 21), 15=3023(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-116/474, 1-2=-610/2897, 2-3=-2109/358, 3-4=-5080/703, 4-6=-5330/705, 6-7=-5330/710, 7-8=-3540/460, 8-9=-1312/211
BOT CHORD	15-17=-679/803, 14-15=-2887/629, 13-14=-403/2100, 11-13=-743/5075, 10-11=-486/3534
WEBS	1-15=-2775/739, 2-15=-2097/351, 2-14=-752/5120, 3-14=-1149/253, 3-13=-423/3062, 4-13=-595/178, 4-11=-75/257, 6-11=-493/153, 7-11=-267/1872, 7-10=-1039/242, 8-10=-485/3617

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 22-9-5, Corner(3) 22-9-5 to 37-9-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=523.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-17=-20

May 18,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-68, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-68

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-17=-20
Horz: 1-17=-3, 1-18=-27, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M22	Monopitch	5	1	I52022198
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:21 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-jaW?6uv9A?8dxlHxo4jjj83ZmYJ9ZzUFRF0S4azFIny

5-9-14	11-11-4	18-3-6	24-7-9	30-11-11	37-3-13
5-9-14	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

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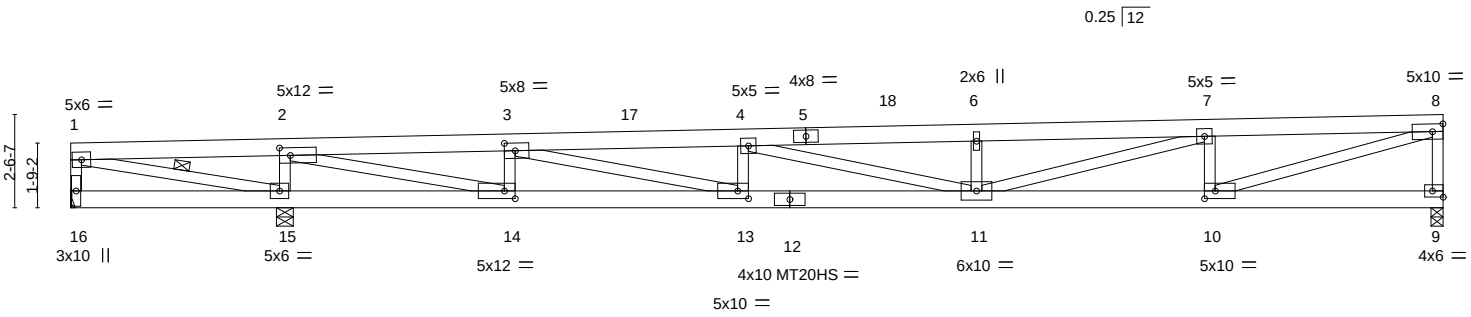

5-9-14	11-11-4	18-3-6	24-7-9	30-11-11	37-3-13
5-9-14	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-2-8], [8:0-3-7,0-2-8], [9:Edge,0-2-0], [10:0-3-8,0-2-8], [13:0-3-8,0-2-8], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.42	11-13	>895	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.85	11-13	>445	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 241 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 2-14: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-7 oc bracing.
WEBS	1 Row at midpt 1-15

REACTIONS. (size) 16=Mechanical, 9=0-3-15, 15=0-5-8
Max Horz 16=44(LC 12)
Max Uplift 16=-616(LC 2)
Max Grav 9=1392(LC 21), 15=3079(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-53/568, 1-2=-400/2975, 2-3=-2074/278, 3-4=-5049/663, 4-6=-5310/701, 6-7=-5310/706, 7-8=-3530/482, 8-9=-1308/209
BOT CHORD	14-15=-2965/403, 13-14=-301/2066, 11-13=-678/5044, 10-11=-474/3524
WEBS	1-15=-2910/402, 2-15=-2090/354, 2-14=-673/5165, 3-14=-1156/240, 3-13=-392/3065, 4-13=-596/169, 4-11=-34/268, 6-11=-493/154, 7-11=-245/1862, 7-10=-1035/238, 8-10=-473/3606

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-2-1, Corner(3) 22-2-1 to 37-2-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=616.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 18,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-68, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-68

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=13, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-3, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=10, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-2, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M23	Monopitch	3	1	I52022199
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:22 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Bm4NJEwnxJGUZvs8LnEyFLbq9yjPIR9Ofvl0c1zFInx

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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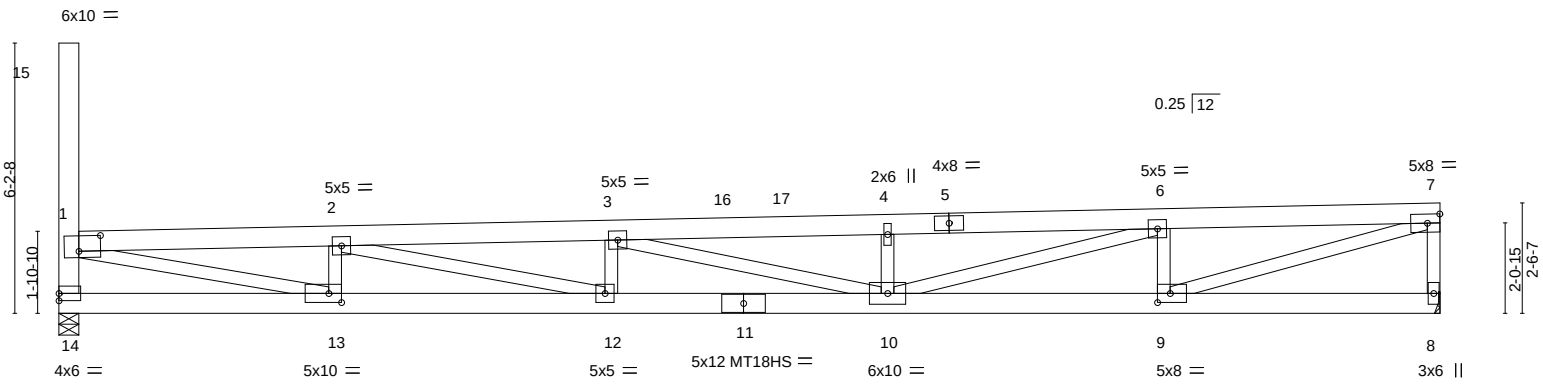

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [1:0-6-0,0-4-4], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.51	10-12	>739	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-1.01	10-12	>373	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13,7-9: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=206(LC 14)
Max Grav 14=1783(LC 21), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1643/313, 1-2=-5156/1128, 2-3=-7080/1355, 3-4=-6525/1184, 4-6=-6524/1189, 6-7=-4111/727, 7-8=-1485/304
BOT CHORD 13-14=-547/654, 12-13=-1177/5145, 10-12=-1399/7073, 9-10=-755/4105
WEBS 1-13=-901/4788, 2-13=-1047/288, 2-12=-495/1984, 3-12=-334/195, 3-10=-574/182, 4-10=-484/174, 6-10=-489/2524, 6-9=-1219/329, 7-9=-762/4217

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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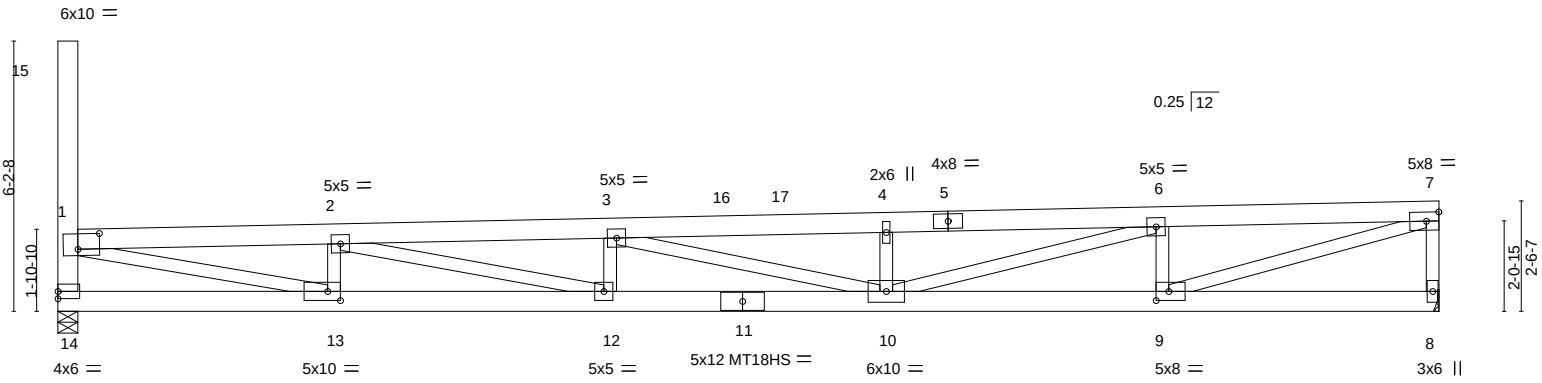
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M24	Monopitch	4	1	I52022200
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:23 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-fzemXaxPidOLA3RKvVmBoZ8?vM3e1uQXuZVZ8TzFInw

6-4-2	12-8-4	19-0-6	25-4-8	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-4

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-8	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-4

Plate Offsets (X,Y)-- [1:0-6-0,0-4-4], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.51	10-12	>739	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-1.01	10-12	>373	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13,7-9: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=206(LC 12)
Max Grav 14=1783(LC 21), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1643/313, 1-2=-5155/1128, 2-3=-7079/1355, 3-4=-6526/1185, 4-6=-6526/1190, 6-7=-4115/728, 7-8=-1485/304
BOT CHORD 13-14=-547/654, 12-13=-1177/5144, 10-12=-1399/7072, 9-10=-755/4109
WEBS 1-13=-901/4787, 2-13=-1047/288, 2-12=-495/1985, 3-12=-334/195, 3-10=-572/182, 4-10=-484/174, 6-10=-489/2521, 6-9=-1218/329, 7-9=-762/4221

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M24S	GABLE	2	1	I52022201
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:27 2022 Page 1
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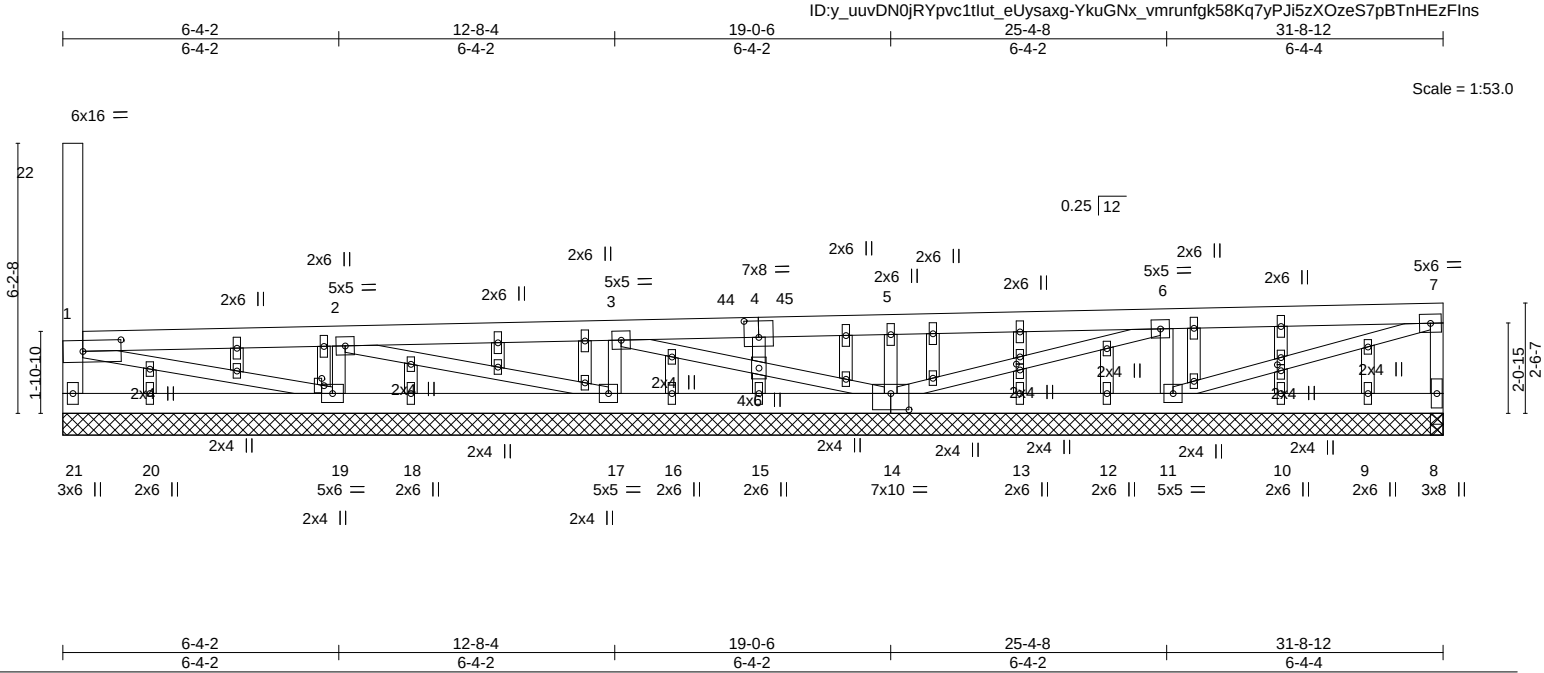

Plate Offsets (X,Y)-- [1:0-10-9,0-3-0], [4:0-4-0,0-4-8], [14:0-5-0,0-4-8], [19:0-2-0,0-0-10], [38:0-1-10,0-1-0], [42:0-1-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	21	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	19-20	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	-0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 237 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 21-22: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 31-8-12.
(lb) - Max Horz 21=206(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 19, 17, 14, 11, 20, 16, 9 except 21=-487(LC 44), 8=-427(LC 53)
Max Grav All reactions 250 lb or less at joint(s) 8, 20, 18, 15, 13, 12, 10, 9 except 21=622(LC 71), 8=505(LC 64), 19=684(LC 21), 17=574(LC 21), 14=576(LC 21), 11=587(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-554/406, 1-2=-1484/1478, 2-3=-1379/1383, 3-5=-1317/1334, 5-6=-1254/1279, 6-7=-1261/1267, 7-8=-483/463
BOT CHORD	20-21=-676/632, 19-20=-1580/1501, 18-19=-426/382, 17-18=-1364/1319, 16-17=-298/274, 15-16=-698/674, 14-15=-1304/1280, 13-14=-1290/1279, 12-13=-696/685, 11-12=-296/285, 10-11=-1239/1245, 9-10=-714/720, 8-9=-314/320
WEBS	1-19=-1489/1525, 2-19=-734/483, 2-17=-1352/1368, 3-17=-671/521, 3-14=-1327/1335, 5-14=-497/179, 6-14=-1317/1306, 6-11=-712/546, 7-11=-1306/1299

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 17, 14, 11, 20, 16, 9 except (jt=lb) 21=487, 8=427.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-12 for 200.0 plf.

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-67, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-79, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-21=-20
   Horz: 1-21=13, 1-22=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-21=-3, 1-22=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-21=-20
   Horz: 1-21=10, 1-22=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-21=-2, 1-22=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-44=7200, 4-44=7200, 4-45=7200, 7-45=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-63, 8-21=-20
   Horz: 1-44=-7200, 4-44=-7200, 4-45=-7200, 7-45=-7200
   Drag: 8-21=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-64, 8-21=-20
   Horz: 1-44=7200, 4-44=7200, 4-45=7200, 7-45=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-2=-64

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-70, 8-21=-20
Horz: 1-44=-7200, 4-44=-7200, 4-45=-7200, 7-45=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-130-to-2=-70

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 8-21=-20
Horz: 1-44=7200, 4-44=7200, 4-45=7200, 7-45=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-42, 8-21=-20
Horz: 1-44=-7200, 4-44=-7200, 4-45=-7200, 7-45=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-2=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-44=7191, 4-44=7191, 4-45=7191, 7-45=7191, 7-8=3
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-44=-7209, 4-44=-7209, 4-45=-7209, 7-45=-7209, 7-8=3
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-44=7197, 4-44=7197, 4-45=7197, 7-45=7197, 7-8=-13
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-60, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-44=-7203, 4-44=-7203, 4-45=-7203, 7-45=-7203, 7-8=-13
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-44=7191, 4-44=7191, 4-45=7191, 7-45=7191, 7-8=2
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-44=-7209, 4-44=-7209, 4-45=-7209, 7-45=-7209, 7-8=2
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=-2, 1-22=-18, 1-44=7197, 4-44=7197, 4-45=7197, 7-45=7197, 7-8=-10
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-54

Continued on page 4

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 2-7=-60, 8-21=-20

Horz: 1-21=-2, 1-22=-18, 1-44=-7203, 4-44=-7203, 4-45=-7203, 7-45=-7203, 7-8=-10

Drag: 8-21=150

Trapezoidal Loads (plf)

Vert: 1=-120-to-2=-60

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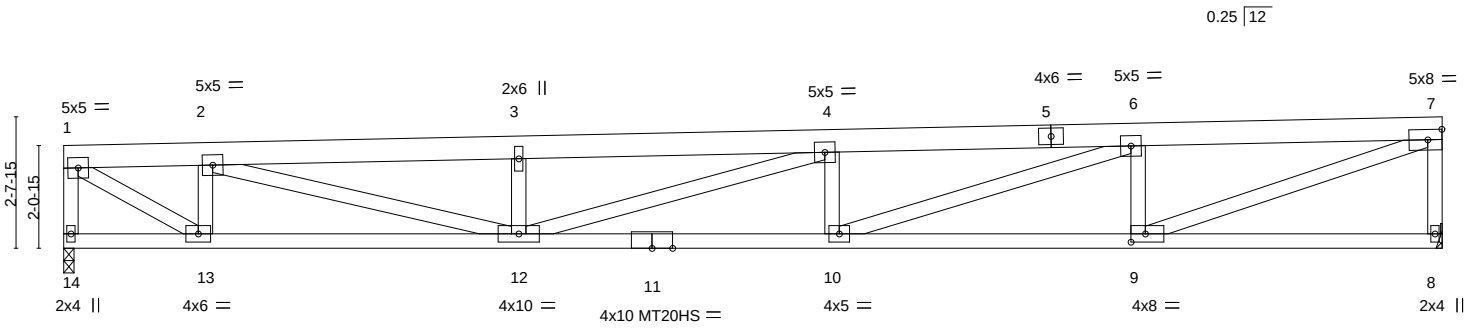
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M26	Monopitch	5	1	I52022202
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-U7?1od0AHT9Vu_uUGlsb1qO4jm1IRb?QGVytM7zFInq

2-10-7	9-2-9	15-6-11	21-9-1	27-10-15
2-10-7	6-4-2	6-4-2	6-2-6	6-1-14

Scale = 1:46.7



2-10-7	9-2-9	15-6-11	21-9-1	27-10-15
2-10-7	6-4-2	6-4-2	6-2-6	6-1-14

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.59	10-12	>558	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 162 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-5-11 oc bracing.

REACTIONS. (size) 14=0-2-8, 8=Mechanical
Max Horz 14=49(LC 12)
Max Grav 14=1359(LC 21), 8=1359(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1344/269, 1-2=-2038/409, 2-3=-4458/872, 3-4=-4458/878, 4-6=-4637/919, 6-7=-3069/622, 7-8=-1297/298
BOT CHORD	12-13=-463/2037, 10-12=-941/4632, 9-10=-625/3063
WEBS	1-13=-465/2369, 2-13=-1153/312, 2-12=-491/2506, 3-12=-489/201, 4-10=-423/183, 6-10=-335/1661, 6-9=-1017/310, 7-9=-644/3206

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

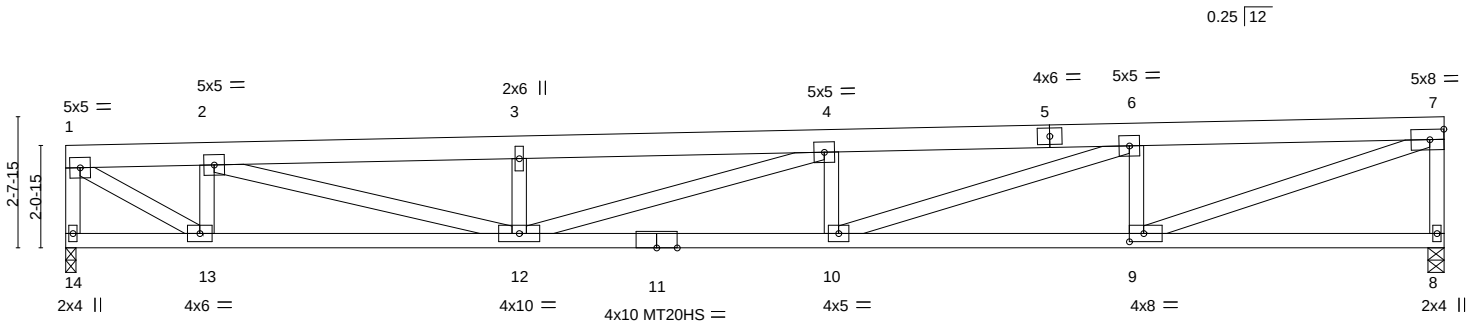
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M27	Monopitch	7	1	I52022203
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-yJZP?z0o2mHMW8TgpTOqa1xFRANRA24ZV9hRuZzFInp

2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
2-10-7	6-4-2	6-4-2	6-2-6	6-3-0

Scale = 1:46.8



2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
2-10-7	6-4-2	6-4-2	6-2-6	6-3-0

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [9:0-3-8,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.60	10-12	>552	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 162 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-10 oc bracing.

REACTIONS. (size) 14=0-2-8, 8=0-3-15
Max Horz 14=49(LC 12)
Max Grav 14=1364(LC 21), 8=1364(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1349/269, 1-2=-2046/409, 2-3=-4480/873, 3-4=-4480/879, 4-6=-4673/923, 6-7=-3117/629, 7-8=-1301/298
BOT CHORD 12-13=-463/2045, 10-12=-944/4667, 9-10=-632/3111
WEBS 1-13=-465/2378, 2-13=-1158/312, 2-12=-493/2522, 3-12=-489/201, 4-10=-419/182, 6-10=-331/1647, 6-9=-1017/311, 7-9=-650/3248

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 18,2022

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MiTek
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Chesterfield, MO 63017

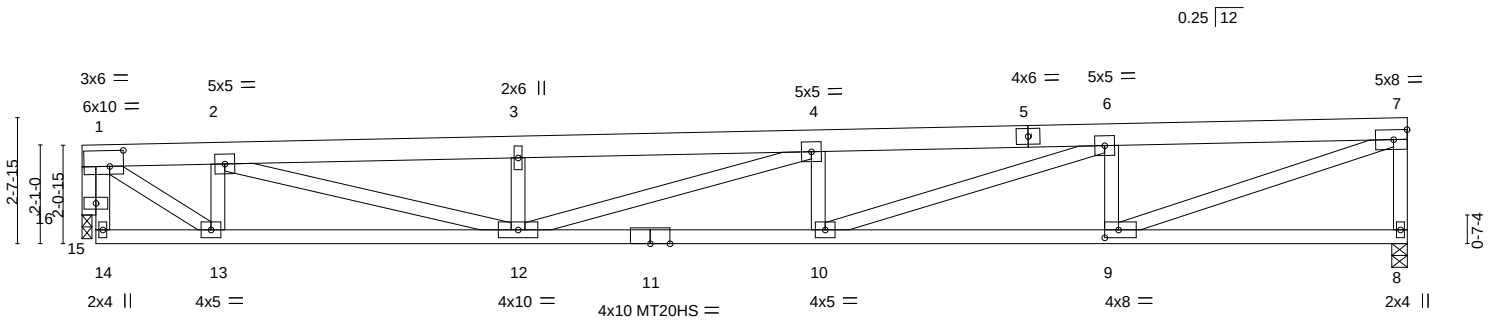
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M27A	Monopitch	3	1	I52022204
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101, Mitek 8.430 s Oct 22 2021 MiTek Industries, Inc. Wed May 18 13:23:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-MOpgQxVBla6ex?tWG12WNG17?GkRFDMw4vlBDizFFb6

2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
2-10-7	6-4-2	6-4-2	6-2-6	6-3-0

Scale = 1:48.7



0-3-8	2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
0-3-8	2-6-15	6-4-2	6-4-2	6-2-6	6-3-0

Plate Offsets (X,Y)-- [1:0-3-8,0-4-0], [7:0-3-7,0-2-8], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.60	10-12	>554	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 3-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-6-1 oc bracing.

REACTIONS. (size) 8=0-3-15, 16=0-2-8
Max Horz 16=43(LC 14)
Max Grav 8=1365(LC 22), 16=1333(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2077/413, 2-3=-4494/885, 3-4=-4494/891, 4-5=-4681/931, 5-6=-4674/932, 6-7=-3120/633, 7-8=-1302/297
BOT CHORD 13-14=-94/287, 12-13=-438/2077, 11-12=-933/4675, 10-11=-933/4675, 9-10=-626/3114
WEBS 2-13=-1166/311, 2-12=-484/2503, 3-12=-486/200, 4-10=-420/180, 6-10=-325/1653, 6-9=-1018/309, 7-9=-644/3252, 1-13=-423/2189, 1-16=-1382/269

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
8) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

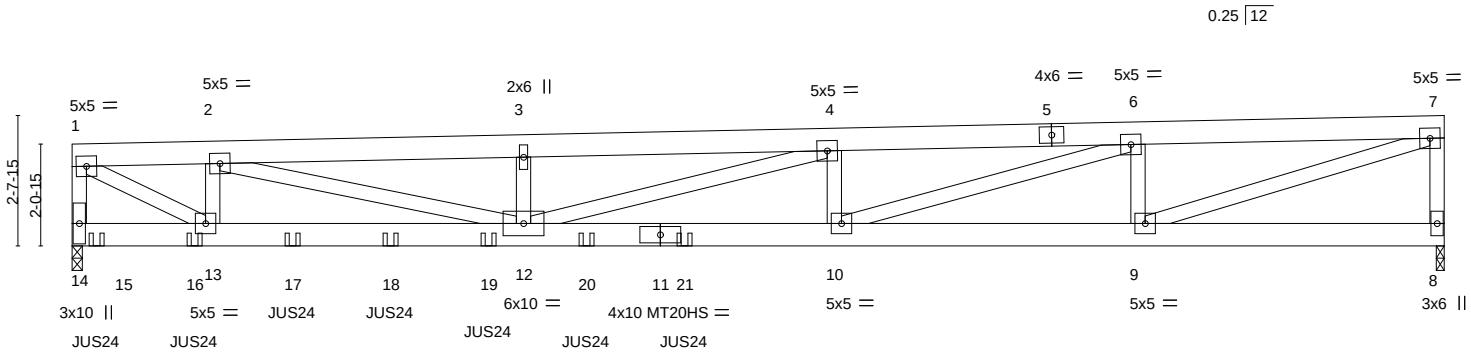
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M27G	MONOPITCH GIRDER	1	2	I52022205
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:33 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-MuFYd?3gLhfwNbCFVbxXCgYlOOSHNTs0B6w5VuzFInm

2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
2-10-7	6-4-2	6-4-2	6-2-6	6-3-0

Scale = 1:47.0



2-10-7	9-2-9	15-6-11	21-9-1	28-0-1
2-10-7	6-4-2	6-4-2	6-2-6	6-3-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.37	10-12	>887	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.45	10-12	>742	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 369 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-7 oc bracing.

REACTIONS. (size) 14=0-2-8, 8=0-1-15
Max Horz 14=47(LC 12)
Max Uplift 14=-1949(LC 11), 8=-539(LC 15)
Max Grav 14=2955(LC 50), 8=1622(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-2732/2056, 1-2=-4458/3368, 2-3=-8573/6200, 3-4=-8570/6204, 4-6=-7362/4764, 6-7=-4117/2352, 7-8=-1533/871
BOT CHORD 12-13=-3420/4432, 10-12=-4785/7334, 9-10=-2354/4088
WEBS 1-13=-3827/5079, 2-13=-1525/1011, 2-12=-2938/4253, 3-12=-449/276, 4-12=-1755/1680, 4-10=-725/637, 6-10=-2563/3422, 6-9=-1376/964, 7-9=-2440/4258

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 8.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1949, 8=539.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-0 from the left end to 12-6-0 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 15=-135(B) 16=-129(B) 17=-129(B) 18=-129(B) 19=-129(B) 20=-129(B) 21=-129(B)

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M28	Monopitch	2	1	I52022206
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-r4pwrK4I6?nn?lnR2ISmkt5v_nr26zJ9Qmfe1KzFInl

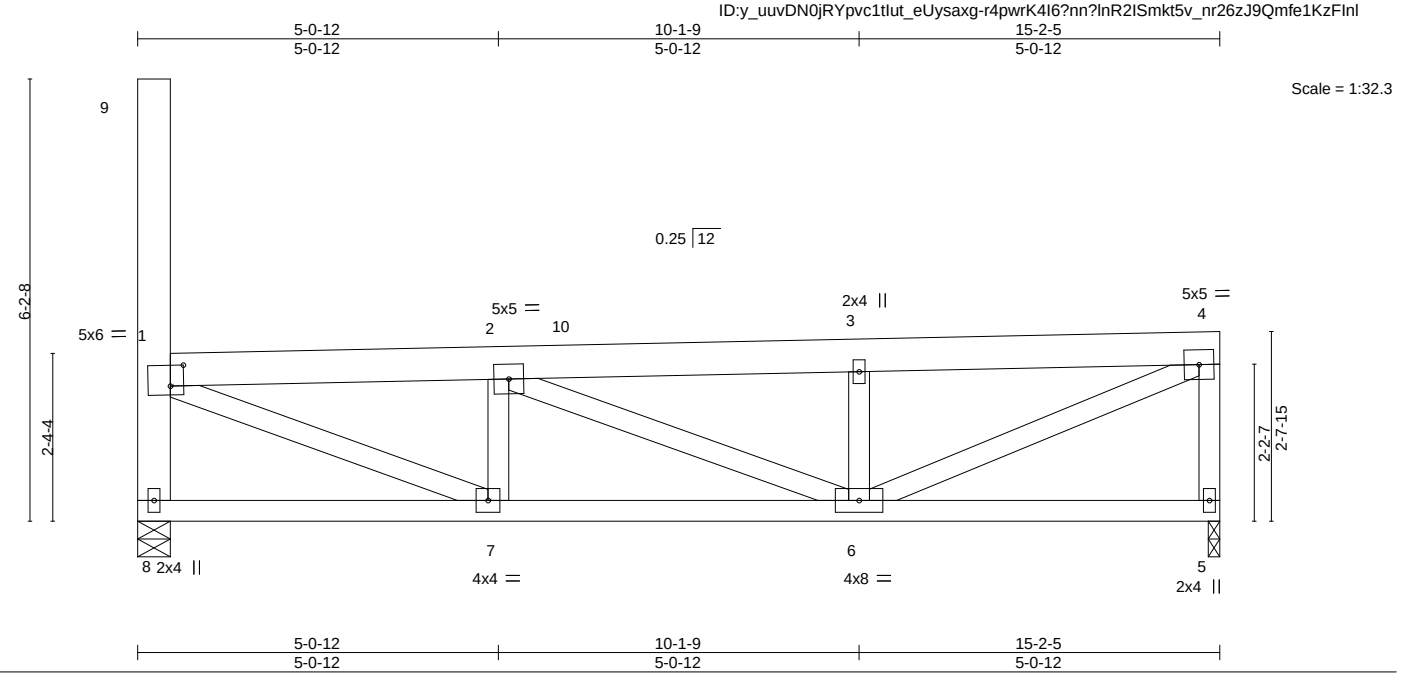

Plate Offsets (X,Y)-- [1:0-2-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 101 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-12 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-1-15
Max Horz 8=194(LC 12)
Max Uplift 8=-12(LC 11)
Max Grav 8=918(LC 21), 5=747(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-876/346, 1-2=-1346/630, 2-3=-1237/483, 3-4=-1237/489, 4-5=-706/316
BOT CHORD 7-8=-410/520, 6-7=-679/1338
WEBS 1-7=-491/1298, 2-7=-387/250, 2-6=-255/165, 3-6=-420/258, 4-6=-561/1359

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-60, 5-8=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-10=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-10=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-10=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-10=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-10=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M30	Monopitch	2	1	I52022207
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:37 2022 Page 1
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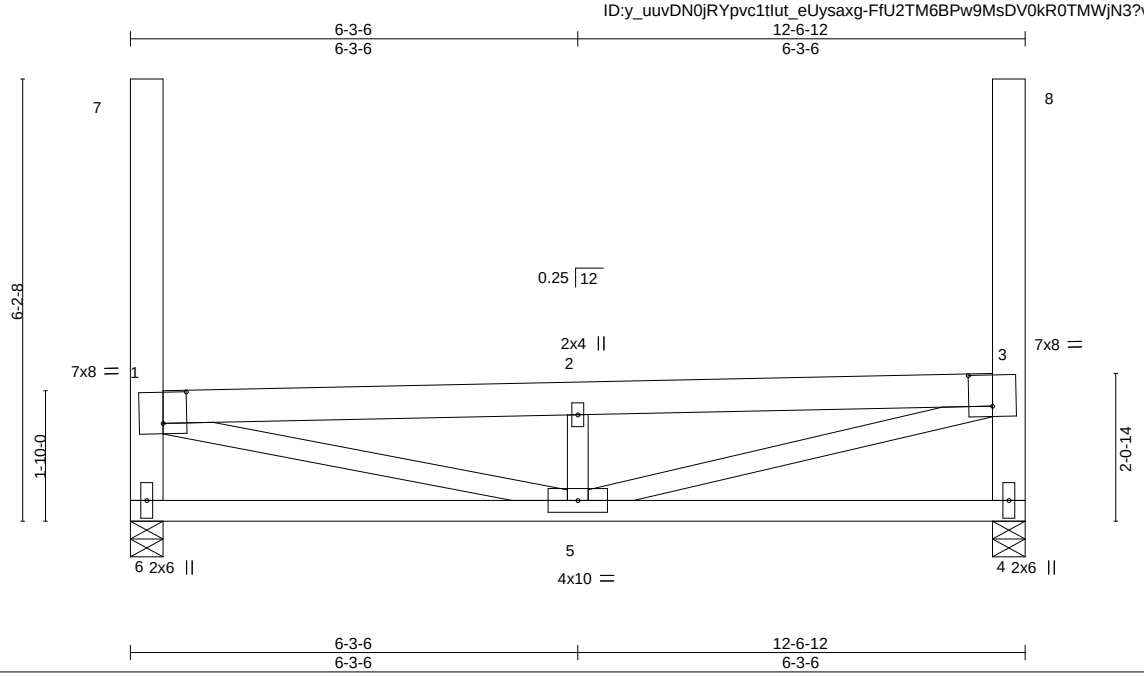

Plate Offsets (X,Y)-- [1:0-4-0,0-5-4], [3:0-4-0,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.09	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.13	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 93 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=301(LC 12)
Max Uplift 6=-61(LC 11), 4=-17(LC 12)
Max Grav 6=1070(LC 21), 4=1070(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1017/421, 1-2=-2243/265, 2-3=-2241/272, 3-4=-1017/423
BOT CHORD 5-6=-914/890, 4-5=-239/342
WEBS 1-5=-929/1891, 2-5=-842/273, 3-5=-901/1983

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-125, 4-6=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 4-6=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-157, 4-6=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20

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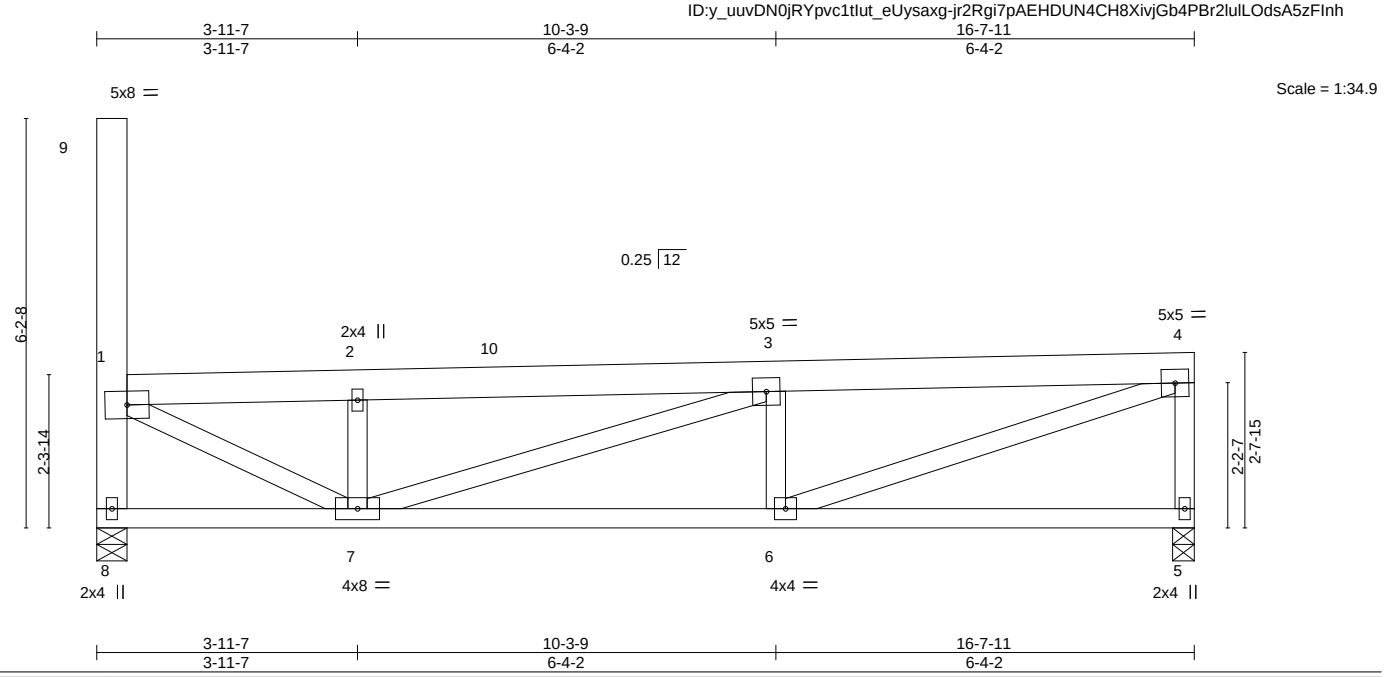
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M31	Monopitch	7	1	I52022208
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:38 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-jr2Rgi7pAEHDUN4CH8XivjGb4PBr2lulLOdsA5zFInh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.12	6-7	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 108 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-14 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-15
Max Horz 8=195(LC 12)
Max Uplift 8=-6(LC 11)
Max Grav 8=991(LC 21), 5=815(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-965/336, 1-2=-1388/656, 2-3=-1388/663, 3-4=-1626/600, 4-5=-763/323
BOT CHORD 7-8=-381/521, 6-7=-637/1620
WEBS 1-7=-442/1468, 2-7=-490/260, 3-7=-385/392, 3-6=-457/317, 4-6=-660/1727

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-60, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-10=-60

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-10=-65, 5-8=-20
   Trapezoidal Loads (plf)
      Vert: 1=-125-to-10=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-10=-39, 5-8=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-10=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-10=-77, 5-8=-20
   Trapezoidal Loads (plf)
      Vert: 1=-157-to-10=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-10=-42, 5-8=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-10=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-10=-51, 5-8=-20
      Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-10=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-10=-57, 5-8=-20
      Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-10=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-10=-51, 5-8=-20
      Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-10=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 4-10=-57, 5-8=-20
      Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-10=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 4-10=-70, 5-8=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-10=-70

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M31S	GABLE	1	1	I52022209
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:40 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-fEAB5O83irXxjgEbPZZA_8LwaCvqWXn2oi6zF_zFInf

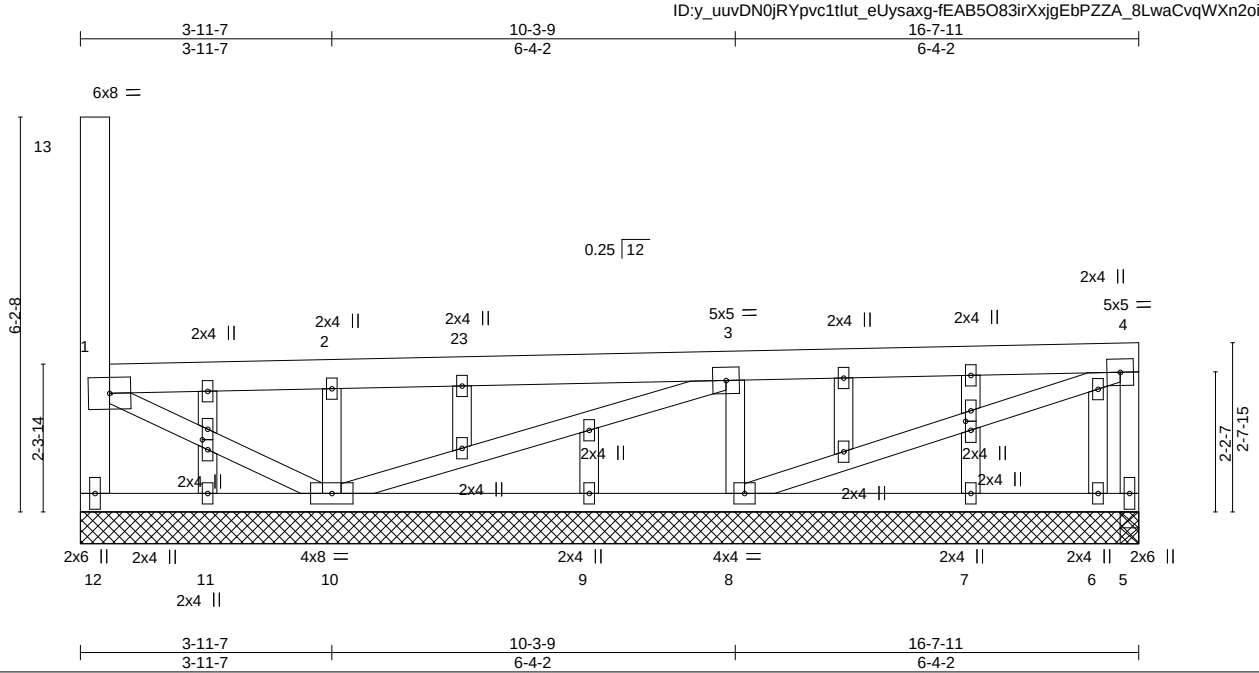

Plate Offsets (X,Y)-- [14:0-1-14,0-1-0], [22:0-1-11,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	6	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.01	9-10	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 120 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 12-13: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-15 oc bracing.

REACTIONS. All bearings 16-7-11.
(lb) - Max Horz 12=195(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-745(LC 44), 5=-439(LC 53), 10=-362(LC 53), 8=-177(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 5, 11, 9, 7, 6 except 12=792(LC 51), 5=495(LC 64), 10=749(LC 68), 8=636(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-793/755, 1-2=-1224/1245, 2-3=-954/981, 3-4=-1096/1118, 4-5=-502/533
BOT CHORD	11-12=-684/587, 10-11=-1075/977, 9-10=-1366/1350, 8-9=-557/540, 7-8=-1259/1259, 6-7=-518/519
WEBS	1-10=-1445/1508, 2-10=-516/298, 3-10=-1048/1037, 3-8=-682/613, 4-8=-1319/1306

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 745 lb uplift at joint 12, 439 lb uplift at joint 5, 362 lb uplift at joint 10 and 177 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-7-11 for 200.0 plf.

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-70, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-23=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-60, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-23=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-65, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-23=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-39, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-23=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-77, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-23=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-23=-42, 5-12=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-23=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-51, 5-12=-20
   Horz: 1-12=13, 1-13=27, 1-4=-9, 4-5=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-23=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-57, 5-12=-20
   Horz: 1-12=-3, 1-13=-27, 1-4=-3, 4-5=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-23=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-51, 5-12=-20
   Horz: 1-12=10, 1-13=-18, 1-4=-9, 4-5=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-23=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-57, 5-12=-20
   Horz: 1-12=-2, 1-13=-18, 1-4=-3, 4-5=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-23=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-57, 5-12=-20
   Horz: 1-2=7200, 2-23=7200, 4-23=7200
   Drag: 5-12=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-23=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-63, 5-12=-20
   Horz: 1-2=-7200, 2-23=-7200, 4-23=-7200
   Drag: 5-12=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-23=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-23=-62, 5-12=-20
   Horz: 1-2=7200, 2-23=7200, 4-23=7200
   Drag: 5-12=-150
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-23=-62

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-68, 5-12=-20
Horz: 1-2=-7200, 2-23=-7200, 4-23=-7200
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-128-to-23=-68

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-36, 5-12=-20
Horz: 1-2=7200, 2-23=7200, 4-23=7200
Drag: 5-12=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-23=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-42, 5-12=-20
Horz: 1-2=-7200, 2-23=-7200, 4-23=-7200
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-23=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-48, 5-12=-20
Horz: 1-12=13, 1-13=27, 1-2=7191, 2-23=7191, 4-23=7191, 4-5=3
Drag: 5-12=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-23=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-54, 5-12=-20
Horz: 1-12=13, 1-13=27, 1-2=-7209, 2-23=-7209, 4-23=-7209, 4-5=3
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-23=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-54, 5-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=7197, 2-23=7197, 4-23=7197, 4-5=-13
Drag: 5-12=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-23=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-60, 5-12=-20
Horz: 1-12=-3, 1-13=-27, 1-2=-7203, 2-23=-7203, 4-23=-7203, 4-5=-13
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-23=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-48, 5-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=7191, 2-23=7191, 4-23=7191, 4-5=2
Drag: 5-12=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-23=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-54, 5-12=-20
Horz: 1-12=10, 1-13=-18, 1-2=-7209, 2-23=-7209, 4-23=-7209, 4-5=2
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-23=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-54, 5-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=7197, 2-23=7197, 4-23=7197, 4-5=-10
Drag: 5-12=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-23=-54

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-23=-60, 5-12=-20
Horz: 1-12=-2, 1-13=-18, 1-2=-7203, 2-23=-7203, 4-23=-7203, 4-5=-10
Drag: 5-12=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-23=-60

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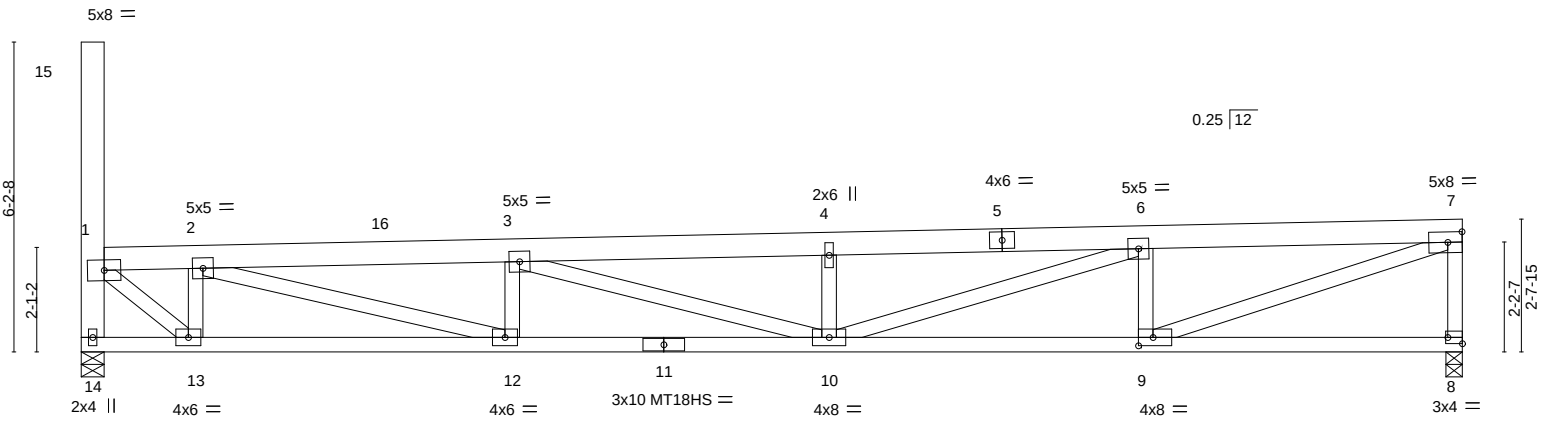
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M32	Monopitch	11	1	I52022210
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:41 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-7QkZJk9hS9foLqpnzG4PXMu5uc7SF1kB1MsWnQzFIne

2-3-8	8-7-10	14-11-13	21-3-15	27-8-1
2-3-8	6-4-2	6-4-3	6-4-2	6-4-2

Scale = 1:46.2



2-3-8	8-7-10	14-11-13	21-3-15	27-8-1
2-3-8	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.58	10-12	>564	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-8 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=204(LC 12)
Max Grav 14=1557(LC 21), 8=1359(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1556/310, 1-2=-1832/669, 2-3=-4364/1062, 3-4=-4704/1047, 4-6=-4704/1053, 6-7=-3142/672, 7-8=-1294/322
BOT CHORD 13-14=-399/511, 12-13=-724/1831, 10-12=-1111/4356, 9-10=-703/3136
WEBS 1-13=-422/2304, 2-13=-1362/344, 2-12=-687/2620, 3-12=-583/267, 3-10=-225/403, 4-10=-501/198, 6-10=-409/1650, 6-9=-1007/335, 7-9=-724/3266

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-16=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-16=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M32S	GABLE	1	1	I52022211
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:44 2022 Page 1
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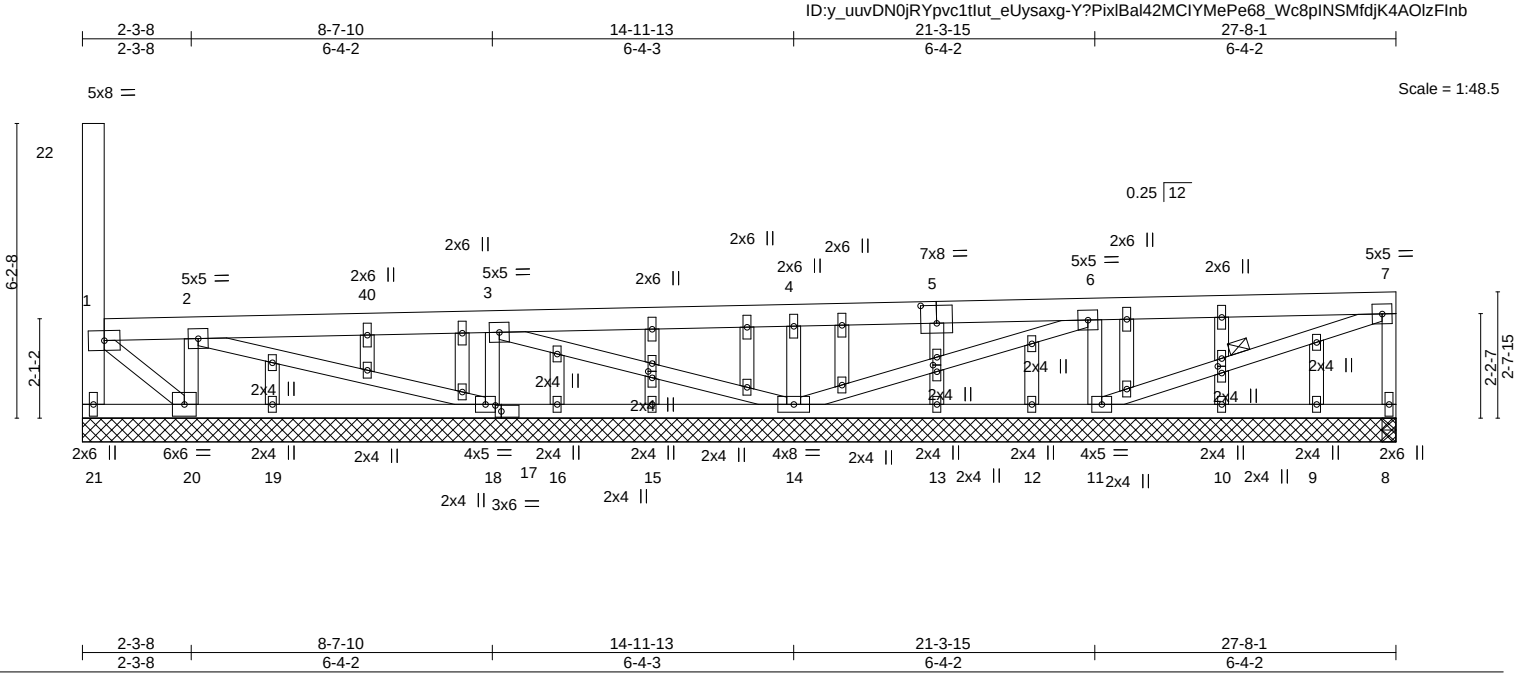

2-3-8 2-3-8 | 8-7-10 6-4-2 | 14-11-13 6-4-3 | 21-3-15 6-4-2 | 27-8-1 6-4-2

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [17:0-1-8,0-1-8], [28:0-1-10,0-1-0], [34:0-1-11,0-1-0], [38:0-1-11,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.00	21	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.01	18-19	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	-0.01	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 194 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 21-22: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-4-2 oc bracing.
WEBS	1 Row at midpt 7-11

REACTIONS. All bearings 27-8-1.
(lb) - Max Horz 21=204(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 18, 14, 9 except 21=-1143(LC 44), 8=-479(LC 53), 20=-850(LC 47), 11=-148(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 8, 19, 16, 15, 13, 12, 10, 9 except 21=1184(LC 51), 8=556(LC 64), 20=1048(LC 68), 18=613(LC 21), 14=561(LC 21), 11=592(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1189/1148, 1-2=-1170/1180, 2-3=-1606/1625, 3-4=-1388/1406, 4-6=-1180/1209, 6-7=-1313/1311, 7-8=-542/527
BOT CHORD	20-21=-726/674, 19-20=-792/763, 18-19=-733/704, 16-18=-361/347, 15-16=-418/404, 14-15=-1014/1000, 13-14=-1237/1232, 12-13=-634/629, 10-11=-1243/1249, 9-10=-709/714, 8-9=-309/314
WEBS	1-20=-1611/1651, 2-20=-659/462, 2-18=-1016/1026, 3-18=-695/534, 3-14=-1131/1134, 4-14=-478/196, 6-14=-1204/1191, 6-11=-711/568, 7-11=-1370/1361

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 14, 9 except (jt=lb) 21=1143, 8=479, 20=850, 11=148.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-8-1 for 200.0 plf.

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

May 18,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-70, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-40=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-60, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-40=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-66, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-40=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-39, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-40=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-78, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-40=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-40=-42, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-40=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-51, 8-21=-20
   Horz: 1-21=13, 1-22=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-40=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-57, 8-21=-20
   Horz: 1-21=-3, 1-22=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-40=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-51, 8-21=-20
   Horz: 1-21=10, 1-22=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-40=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-57, 8-21=-20
   Horz: 1-21=-2, 1-22=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-40=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-57, 8-21=-20
   Horz: 1-4=7200, 4-5=7200, 5-7=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-40=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-63, 8-21=-20
   Horz: 1-4=-7200, 4-5=-7200, 5-7=-7200
   Drag: 8-21=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-40=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-40=-63, 8-21=-20
   Horz: 1-4=7200, 4-5=7200, 5-7=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-40=-63

Continued on page 3

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-69, 8-21=-20
Horz: 1-4=-7200, 4-5=-7200, 5-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-129-to-40=-69

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-36, 8-21=-20
Horz: 1-4=7200, 4-5=7200, 5-7=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-40=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-42, 8-21=-20
Horz: 1-4=-7200, 4-5=-7200, 5-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-40=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-48, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-4=7191, 4-5=7191, 5-7=7191, 7-8=3
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-40=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-54, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-4=-7209, 4-5=-7209, 5-7=-7209, 7-8=3
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-40=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-54, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-4=7197, 4-5=7197, 5-7=7197, 7-8=-13
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-40=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-60, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-4=-7203, 4-5=-7203, 5-7=-7203, 7-8=-13
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-40=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-48, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-4=7191, 4-5=7191, 5-7=7191, 7-8=2
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-40=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-54, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-4=-7209, 4-5=-7209, 5-7=-7209, 7-8=2
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-40=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-54, 8-21=-20
Horz: 1-21=-2, 1-22=-18, 1-4=7197, 4-5=7197, 5-7=7197, 7-8=-10
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-40=-54

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-40=-60, 8-21=-20
Horz: 1-21=-2, 1-22=-18, 1-4=-7203, 4-5=-7203, 5-7=-7203, 7-8=-10
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-40=-60

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M33	Monopitch	3	1	I52022212
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:45 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-0Cz485CCWNADpR6ZC69LhC2ntDVOBqjny_qkwBzFIna

2-3-9	8-7-11	14-11-14	21-4-0	27-8-2
2-3-9	6-4-2	6-4-3	6-4-2	6-4-2

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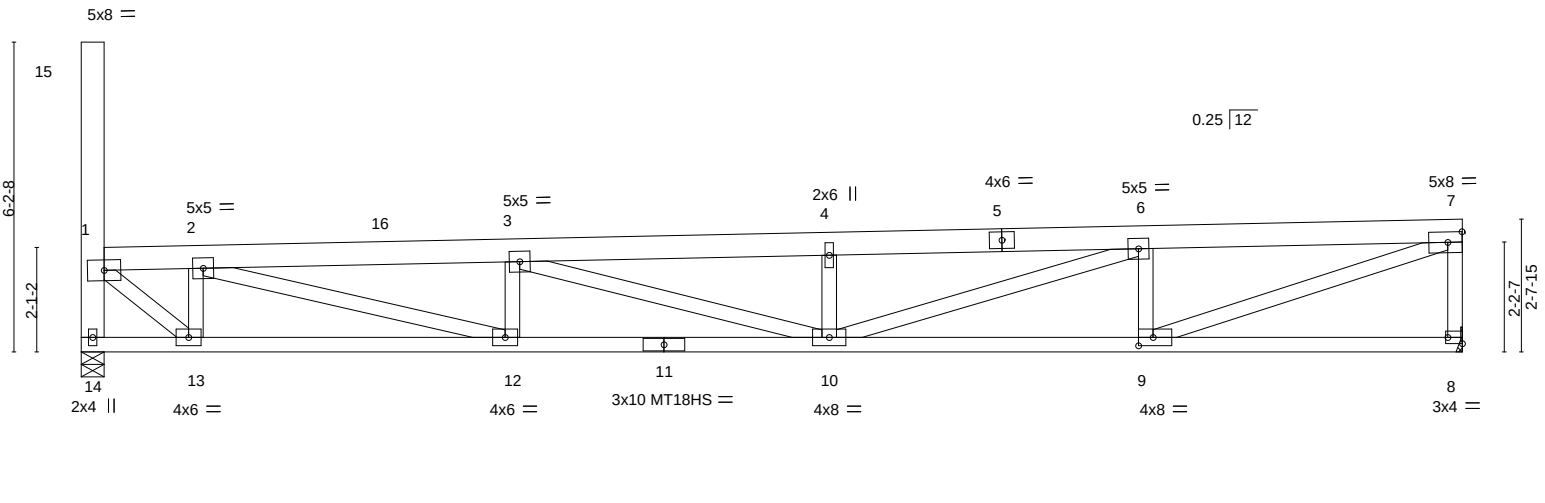

2-3-9	8-7-11	14-11-14	21-4-0	27-8-2
2-3-9	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.58	10-12	>564	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-8 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=204(LC 12)
Max Grav 14=1558(LC 21), 8=1359(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1556/310, 1-2=-1836/669, 2-3=-4367/1062, 3-4=-4706/1047, 4-6=-4706/1053, 6-7=-3142/672, 7-8=-1294/322
BOT CHORD 13-14=-399/511, 12-13=-724/1834, 10-12=-1111/4358, 9-10=-703/3136
WEBS 1-13=-422/2306, 2-13=-1361/344, 2-12=-686/2619, 3-12=-583/266, 3-10=-225/402, 4-10=-501/198, 6-10=-409/1651, 6-9=-1007/335, 7-9=-724/3267

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-16=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-16=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M34	Monopitch	1	1	I52022213
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:46 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-UOXSMRDqHhI4RbhllqgaEPbwwdrBwFUwBeZHSezFInZ

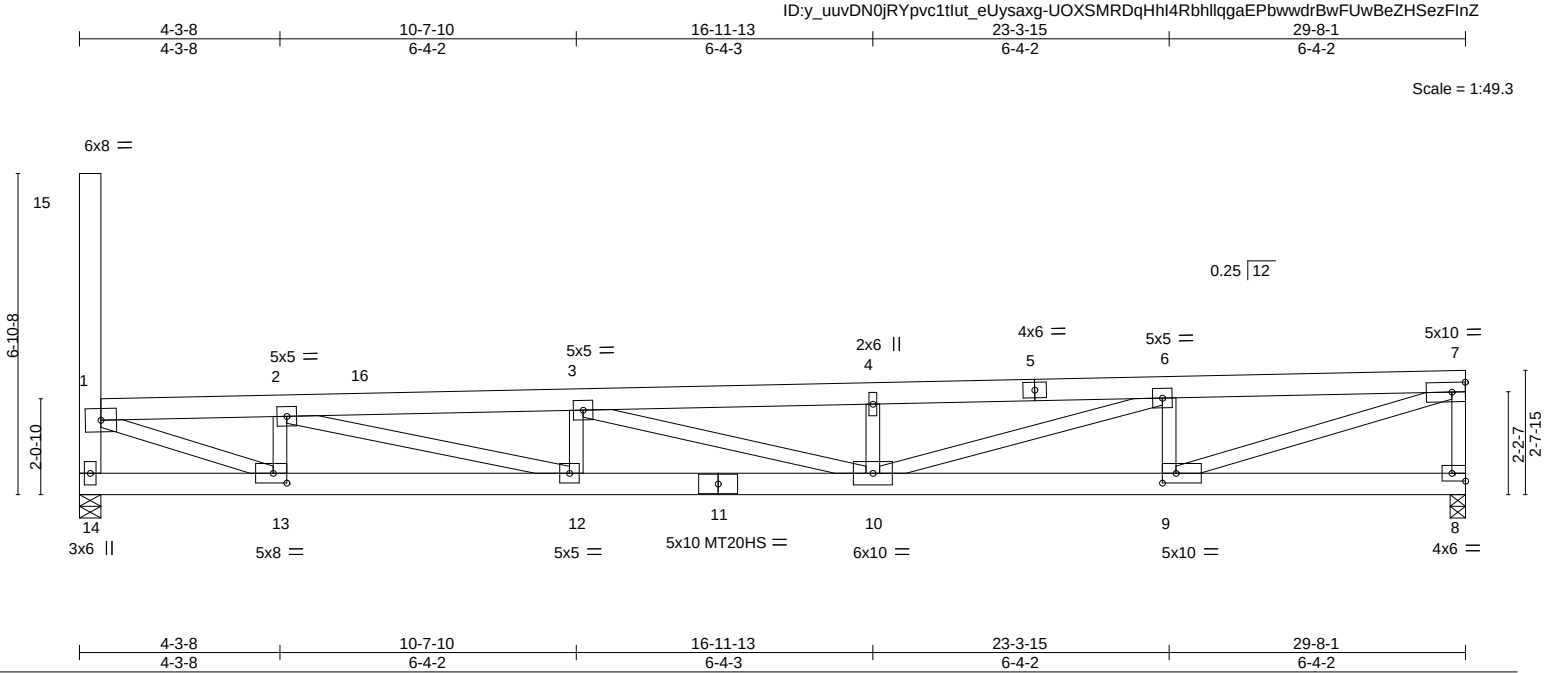

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.36	10-12	>986	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.71	10-12	>495	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=227(LC 14)
Max Grav 14=1662(LC 21), 8=1462(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1583/330, 1-2=-3341/968, 2-3=-5540/1251, 3-4=-5483/1140, 4-6=-5483/1146, 6-7=-3543/707, 7-8=-1380/317
BOT CHORD 13-14=-553/683, 12-13=-1020/3334, 10-12=-1298/5533, 9-10=-736/3537
WEBS 1-13=-664/3349, 2-13=-1142/293, 2-12=-616/2274, 3-12=-471/245, 4-10=-490/186, 6-10=-468/2040, 6-9=-1112/339, 7-9=-747/3655

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

May 18,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M35	Monopitch	9	1	I52022214
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:47 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ya5qZnES2?Qx3lGxJXBqmd86f18BfhT3PIJq?4zFInY

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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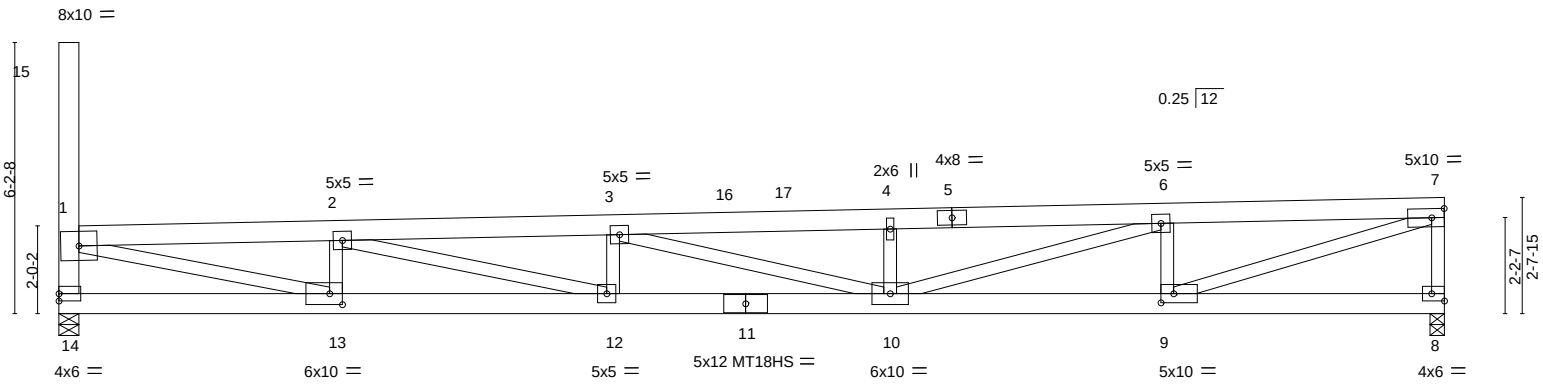

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.48	10-12	>791	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.94	10-12	>399	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=205(LC 12)
Max Grav 14=1783(LC 21), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1664/315, 1-2=-4822/1052, 2-3=-6619/1265, 3-4=-6154/1115, 4-6=-6154/1121, 6-7=-3859/681, 7-8=-1486/305
BOT CHORD 13-14=-496/558, 12-13=-1103/4812, 10-12=-1310/6613, 9-10=-711/3853
WEBS 1-13=-845/4565, 2-13=-1057/290, 2-12=-464/1863, 3-12=-345/196, 3-10=-483/161, 4-10=-494/176, 6-10=-468/2414, 6-9=-1221/330, 7-9=-721/3985

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M36	Monopitch	2	1	I52022215
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:48 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-QmfCn7E4pIYogvr7tFi3JqgBoRYOOAoDey2OXWzFInX

6-5-2	12-6-8	18-10-10	25-2-13	31-6-15	37-11-1
6-5-2	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

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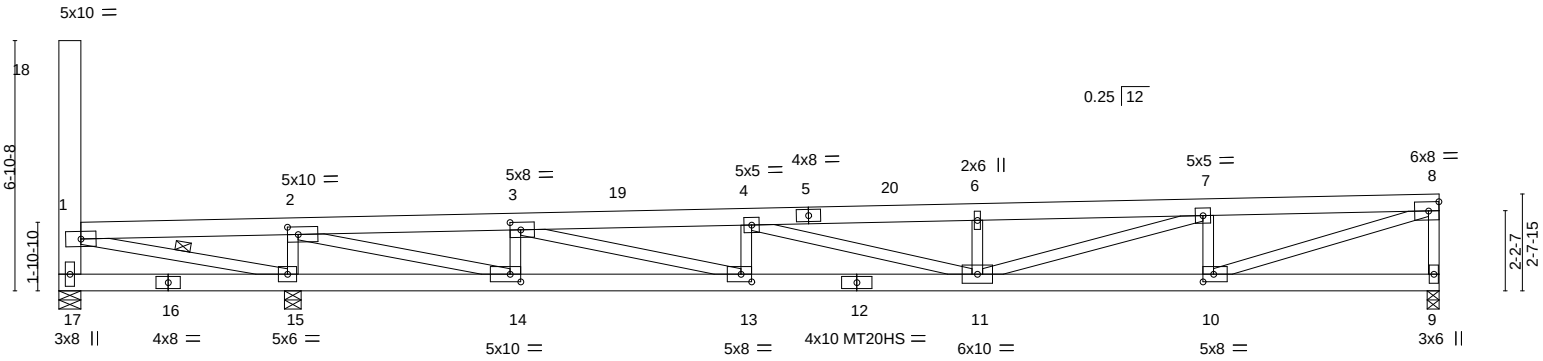

6-5-2	12-6-8	18-10-10	25-2-13	31-6-15	37-11-1
6-5-2	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-2-8], [8:0-3-7,0-3-0], [10:0-3-8,0-2-8], [13:0-3-8,0-2-8], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.37	11-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.75	11-13	>503	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 262 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 17-18: 2x8 SP 2400F 2.0E, 2-14: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-2-7 oc bracing.
WEBS	1 Row at midpt 1-15

REACTIONS. (size) 17=0-7-4, 9=0-3-15, 15=0-5-8
Max Horz 17=234(LC 14)
Max Uplift 17=-522(LC 2)
Max Grav 17=34(LC 15), 9=1396(LC 21), 15=3022(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-118/486, 1-2=-567/2732, 2-3=-1980/336, 3-4=-4754/657, 4-6=-5005/661, 6-7=-5005/666, 7-8=-3339/433, 8-9=-1315/212
BOT CHORD	15-17=-609/736, 14-15=-2722/589, 13-14=-382/1972, 11-13=-699/4749, 10-11=-460/3333
WEBS	1-15=-2674/699, 2-15=-2093/351, 2-14=-704/4843, 3-14=-1164/255, 3-13=-397/2872, 4-13=-600/179, 4-11=-73/259, 6-11=-493/153, 7-11=-251/1752, 7-10=-1039/242, 8-10=-462/3441

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 22-9-5, Corner(3) 22-9-5 to 37-9-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=522.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-17=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-68, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-68

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-17=-20
Horz: 1-17=-3, 1-18=-27, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-17=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M37	Monopitch	4	1	I52022216
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-vzDb_TFjacgfl3QKQyDlr2DMiquh7d5Mtcox3yzFInW

5-9-14	11-11-4	18-3-6	24-7-9	30-11-11	37-3-13
5-9-14	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

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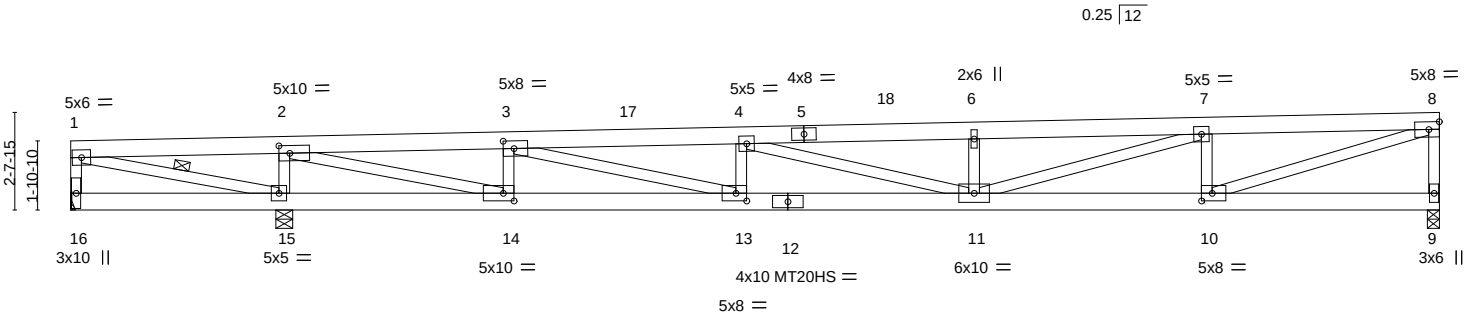

5-9-14	11-11-4	18-3-6	24-7-9	30-11-11	37-3-13
5-9-14	6-1-6	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [2:0-3-8,0-2-8], [3:0-3-8,0-2-8], [8:0-3-7,0-2-8], [10:0-3-8,0-2-8], [13:0-3-8,0-2-8], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.37	11-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.75	11-13	>504	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-14: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-1 oc bracing.
WEBS 1 Row at midpt 1-15

REACTIONS. (size) 16=Mechanical, 9=0-3-15, 15=0-5-8
Max Horz 16=47(LC 12)
Max Uplift 16=-616(LC 2)
Max Grav 9=1392(LC 21), 15=3079(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-56/580, 1-2=-377/2807, 2-3=-1946/262, 3-4=-4725/622, 4-6=-4985/660, 6-7=-4985/665, 7-8=-3329/457, 8-9=-1312/209
BOT CHORD 14-15=-2797/384, 13-14=-286/1938, 11-13=-637/4719, 10-11=-449/3323
WEBS 1-15=-2791/389, 2-15=-2087/354, 2-14=-636/4885, 3-14=-1171/242, 3-13=-367/2876, 4-13=-602/170, 4-11=-35/270, 6-11=-492/154, 7-11=-230/1742, 7-10=-1036/238, 8-10=-450/3431

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-2-1, Corner(3) 22-2-1 to 37-2-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=616.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-68, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-2=-68

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=13, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-3, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=10, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-2, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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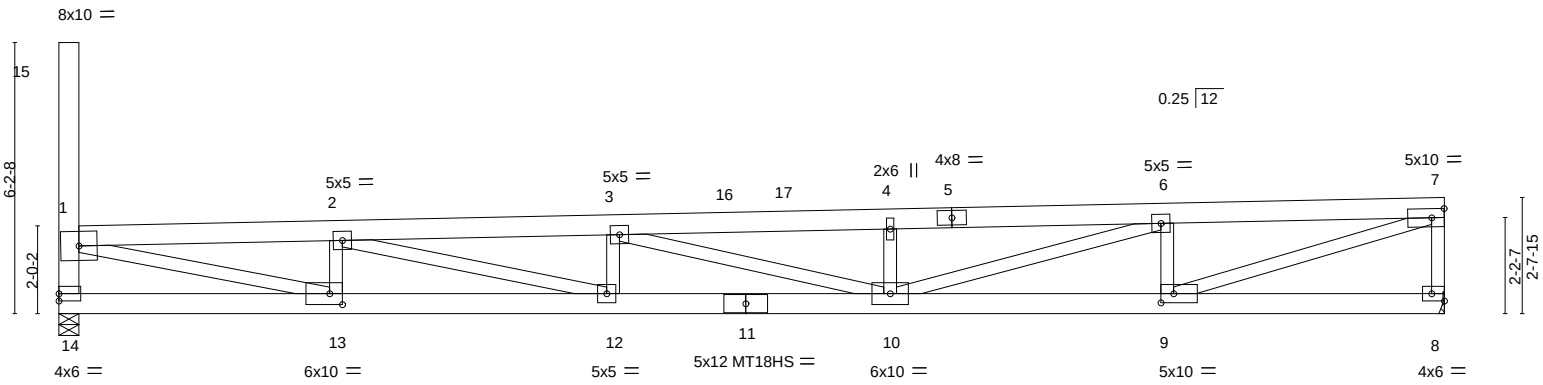
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M38	Monopitch	2	1	I52022217
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:50 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-N9nzCpGLLwoWwD?W_flXOFmdvEAts2CW5GXVbPzFInV

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:52.8



6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.48	10-12	>790	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.94	10-12	>399	240	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=205(LC 12)
Max Grav 14=1783(LC 21), 8=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1664/315, 1-2=-4823/1052, 2-3=-6622/1265, 3-4=-6156/1115, 4-6=-6156/1121, 6-7=-3861/681, 7-8=-1487/305
BOT CHORD 13-14=-496/558, 12-13=-1103/4813, 10-12=-1310/6615, 9-10=-711/3854
WEBS 1-13=-845/4566, 2-13=-1058/290, 2-12=-464/1863, 3-12=-345/196, 3-10=-483/161, 4-10=-494/176, 6-10=-468/2414, 6-9=-1222/330, 7-9=-721/3987

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-2=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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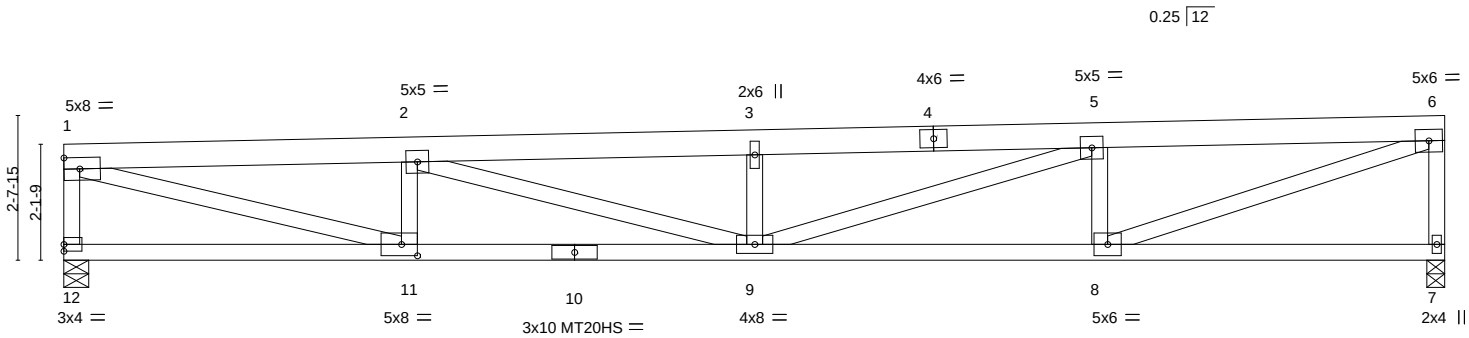
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M39	Monopitch	6	1	I52022218
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:51 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-rLKLP9Hz6DwNXMaiYNGmxTIrTeYzbYjfKwH28rzFInU

6-4-4 | 12-8-7 | 19-0-9 | 25-4-11
6-4-4 | 6-4-3 | 6-4-2 | 6-4-2

Scale = 1:42.4



6-4-4 | 12-8-7 | 19-0-9 | 25-4-11
6-4-4 | 6-4-3 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.21	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.45	9-11	>675	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=49(LC 12)
Max Grav 12=1229(LC 21), 7=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1162/297, 1-2=-3130/684, 2-3=-3923/854, 3-5=-3923/860, 5-6=-2774/624, 6-7=-1166/300
BOT CHORD 9-11=-735/3124, 8-9=-629/2768
WEBS 1-11=-693/3131, 2-11=-736/275, 2-9=-180/827, 3-9=-496/206, 5-9=-276/1213, 5-8=-872/308, 6-8=-645/2879

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Chesterfield, MO 63017

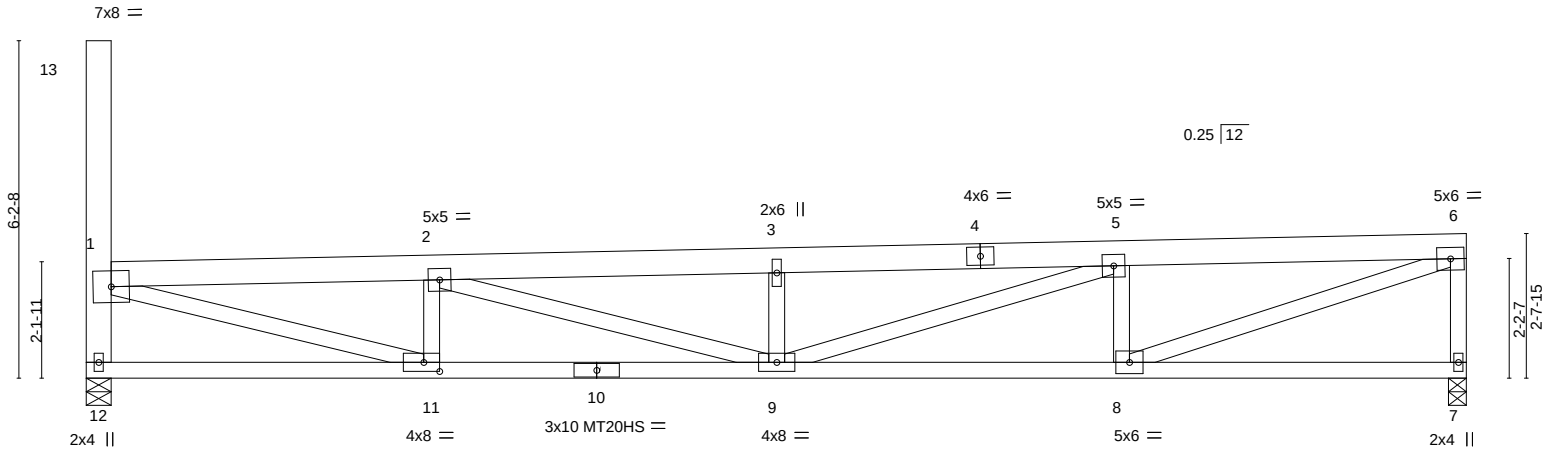
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M39A	Monopitch	7	1	I52022219
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:52 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-JYujcUHbtX2E9W9v64n?Tgr_12xtK?kpZa0bgHzFInT

6-4-4	12-8-7	19-0-9	25-4-11
6-4-4	6-4-3	6-4-2	6-4-2

Scale = 1:42.4



6-4-4	12-8-7	19-0-9	25-4-11
6-4-4	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [11:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.22	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.44	9-11	>682	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-3-12 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=202(LC 12)
Max Grav 12=1450(LC 21), 7=1245(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1380/339, 1-2=-3306/934, 2-3=-4013/999, 3-5=-4013/1005, 5-6=-2822/668, 6-7=-1181/325
BOT CHORD 11-12=-447/533, 9-11=-985/3297, 8-9=-701/2816
WEBS 1-11=-783/3191, 2-11=-770/298, 2-9=-355/784, 3-9=-484/211, 5-9=-362/1258, 5-8=-890/334, 6-8=-720/2929

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
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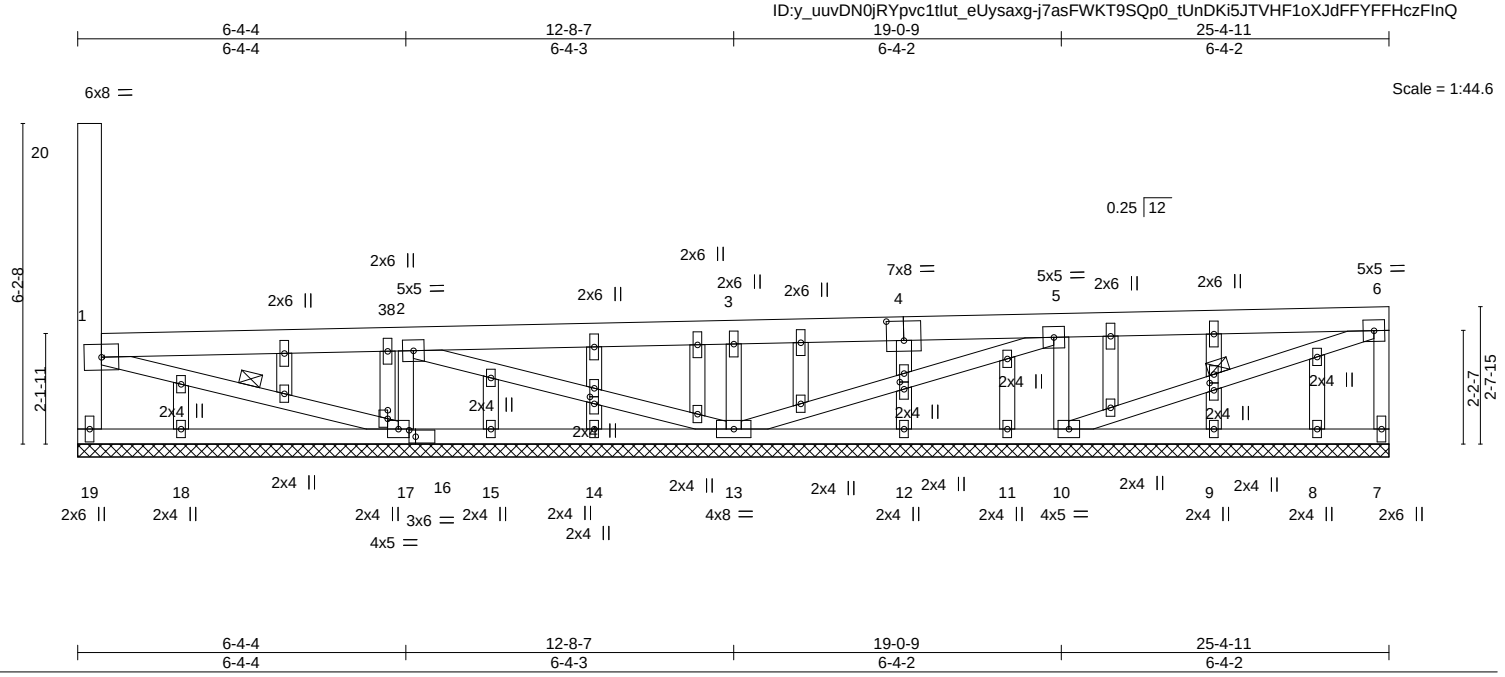
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M39AS	GABLE	1	1	I52022220
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-j7asFWKT9SQp0_tUnDKi5JTVHF1oXJdFFYFFHczFInQ



6-4-4
6-4-4
12-8-7
6-4-3
19-0-9
6-4-2
25-4-11
6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [16:0-1-8,0-1-8], [17:0-2-0,0-0-0], [26:0-1-10,0-1-0], [31:0-1-11,0-1-0], [36:0-1-11,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.02	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 180 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 19-20: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-8-3 oc bracing.
WEBS	1 Row at midpt 1-17, 6-10

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 19=202(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 17, 13, 8 except 19=-538(LC 44), 7=-494(LC 53), 10=-140(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 18, 15, 14, 12, 11, 9, 8 except 19=653(LC 71), 7=566(LC 64), 17=687(LC 21), 13=549(LC 21), 10=594(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-627/511, 1-2=-1479/1474, 2-3=-1343/1366, 3-5=-1261/1291, 5-6=-1323/1336, 6-7=-546/541
BOT CHORD	18-19=-690/630, 17-18=-1596/1501, 15-17=-343/299, 14-15=-743/699, 13-14=-1283/1239, 12-13=-1231/1219, 11-12=-571/559, 9-10=-1244/1248, 8-9=-653/658, 7-8=-253/258
WEBS	1-17=-1594/1647, 2-17=-758/567, 2-13=-1293/1312, 3-13=-460/211, 5-13=-1268/1255, 5-10=-725/605, 6-10=-1396/1389

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13, 8 except (jt=lb) 19=538, 7=494, 10=140.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

May 18,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-70, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-38=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-60, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-38=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-66, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-38=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-39, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-38=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-78, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-38=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-38=-42, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-38=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-51, 7-19=-20
   Horz: 1-19=13, 1-20=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-38=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-57, 7-19=-20
   Horz: 1-19=-3, 1-20=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-38=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-51, 7-19=-20
   Horz: 1-19=10, 1-20=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-38=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-57, 7-19=-20
   Horz: 1-19=-2, 1-20=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-38=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-57, 7-19=-20
   Horz: 1-38=7200, 2-38=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200
   Drag: 7-19=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-38=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-63, 7-19=-20
   Horz: 1-38=-7200, 2-38=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200
   Drag: 7-19=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-38=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-38=-63, 7-19=-20
   Horz: 1-38=7200, 2-38=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200
   Drag: 7-19=-150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-38=-63

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-69, 7-19=-20
Horz: 1-38=-7200, 2-38=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-129-to-38=-69

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-36, 7-19=-20
Horz: 1-38=7200, 2-38=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-38=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-42, 7-19=-20
Horz: 1-38=-7200, 2-38=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-38=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-48, 7-19=-20
Horz: 1-19=13, 1-20=27, 1-38=7191, 2-38=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-7=3
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-38=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-54, 7-19=-20
Horz: 1-19=13, 1-20=27, 1-38=-7209, 2-38=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-7=3
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-38=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-54, 7-19=-20
Horz: 1-19=-3, 1-20=-27, 1-38=7197, 2-38=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-7=-13
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-38=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-60, 7-19=-20
Horz: 1-19=-3, 1-20=-27, 1-38=-7203, 2-38=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-7=-13
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-38=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-48, 7-19=-20
Horz: 1-19=10, 1-20=-18, 1-38=7191, 2-38=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-7=2
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-38=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-54, 7-19=-20
Horz: 1-19=10, 1-20=-18, 1-38=-7209, 2-38=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-7=2
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-38=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-54, 7-19=-20
Horz: 1-19=-2, 1-20=-18, 1-38=7197, 2-38=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-7=-10
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-38=-54

Continued on page 4

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-38=-60, 7-19=-20
Horz: 1-19=-2, 1-20=-18, 1-38=-7203, 2-38=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-7=-10
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-38=-60

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M39S	GABLE	1	1	I52022221
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:45:58 2022 Page 1
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6-4-4 | 12-8-7 | 19-0-9 | 25-4-11
6-4-4 | 6-4-3 | 6-4-2 | 6-4-2

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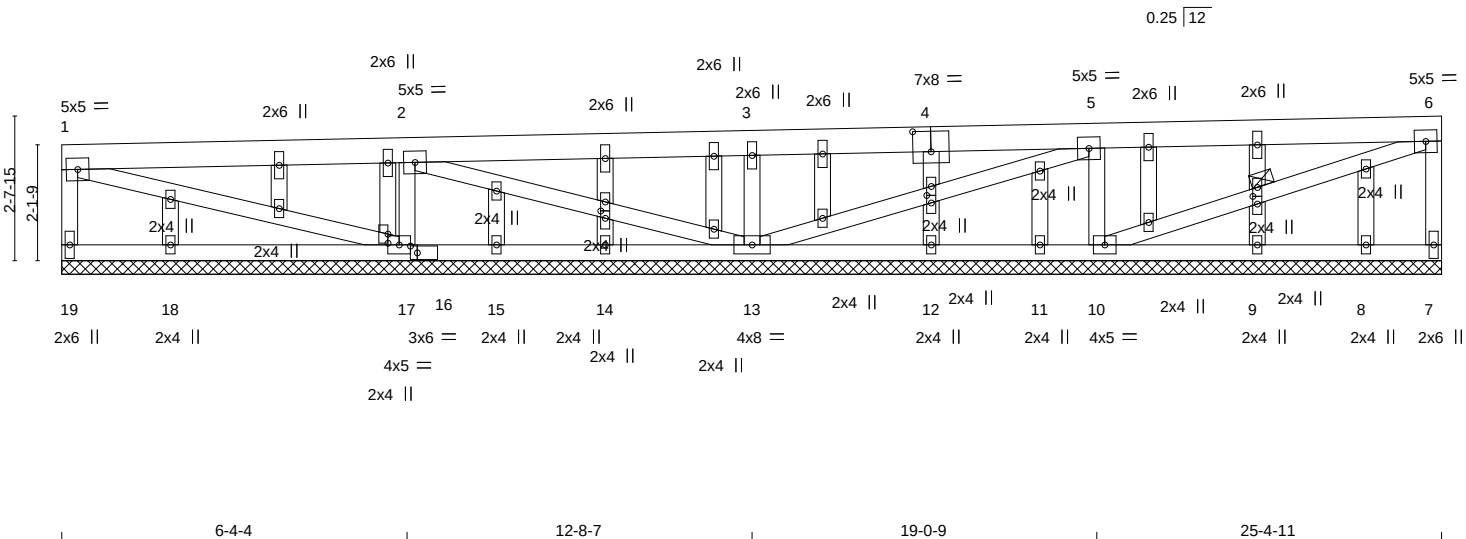

6-4-4 | 12-8-7 | 19-0-9 | 25-4-11
6-4-4 | 6-4-3 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [16:0-1-8,0-1-8], [17:0-2-0,0-0-0], [25:0-1-10,0-1-0], [30:0-1-11,0-1-0], [35:0-1-11,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	-0.01	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 169 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-2-8 oc bracing.
WEBS	1 Row at midpt 6-10

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 19=49(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 17, 13, 8 except 19=-452(LC 44), 7=-493(LC 53), 10=-136(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 18, 15, 14, 12, 11, 9, 8 except 19=510(LC 65), 7=567(LC 64), 17=613(LC 21), 13=557(LC 21), 10=591(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-500/484, 1-2=-1380/1366, 2-3=-1322/1318, 3-5=-1256/1262, 5-6=-1337/1333, 6-7=-551/538
BOT CHORD	18-19=-386/409, 17-18=-1294/1280, 15-17=-255/224, 14-15=-655/648, 13-14=-1195/1188, 12-13=-1215/1216, 11-12=-556/556, 9-10=-1243/1248, 8-9=-653/658, 7-8=-253/258
WEBS	1-17=-1415/1423, 2-17=-724/591, 2-13=-1252/1254, 3-13=-472/202, 5-13=-1249/1236, 5-10=-723/596, 6-10=-1387/1382

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13, 8 except (jt=lb) 19=452, 7=493, 10=136.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

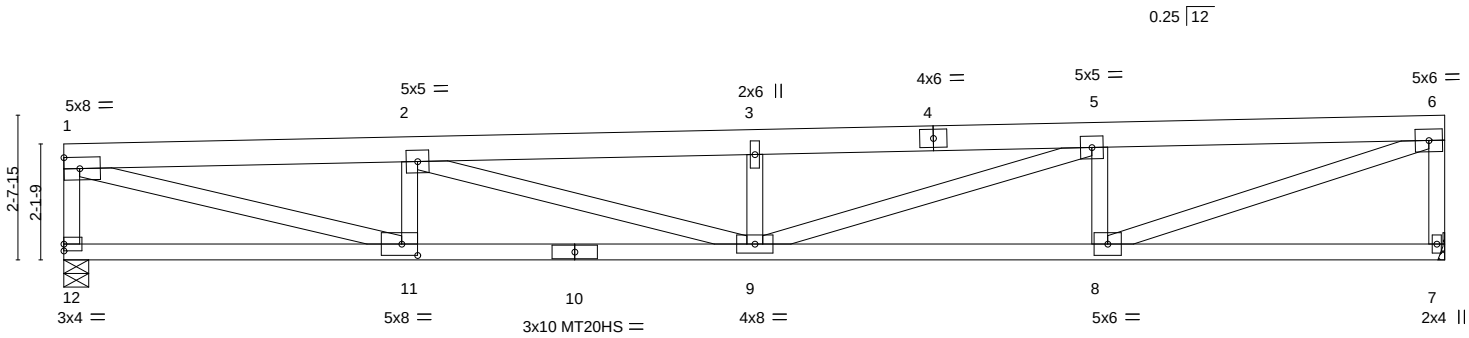
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M40	Monopitch	2	1	I52022222
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:01 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-YHx7VZOEllBykvLd7TR6KajYygyIx4C7dTiaUGzFlnK

6-4-5 | 12-8-8 | 19-0-10 | 25-4-12
6-4-5 | 6-4-3 | 6-4-2 | 6-4-2

Scale = 1:42.4



6-4-5 | 12-8-8 | 19-0-10 | 25-4-12
6-4-5 | 6-4-3 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.21	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.45	9-11	>674	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=49(LC 12)
Max Grav 12=1229(LC 21), 7=1229(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1162/297, 1-2=-3132/685, 2-3=-3924/854, 3-5=-3924/860, 5-6=-2775/624, 6-7=-1166/300
BOT CHORD 9-11=-735/3127, 8-9=-629/2769
WEBS 1-11=-693/3133, 2-11=-736/275, 2-9=-180/826, 3-9=-496/206, 5-9=-276/1214, 5-8=-872/308, 6-8=-645/2879

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

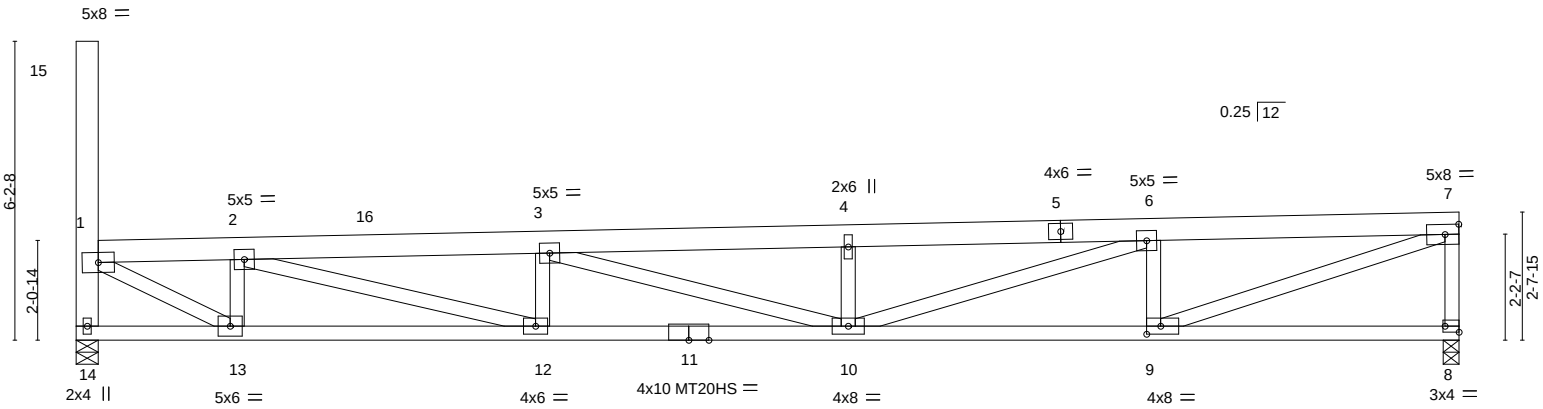
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M41	Monopitch	7	1	I52022223
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:02 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-0TVVjvPsWcJpM3wqhByLtnFhd4G0gWKHs7R70izFInJ

3-4-2	9-8-4	16-0-7	22-4-9	28-8-11
3-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Scale: 1/4"=1'



3-4-2	9-8-4	16-0-7	22-4-9	28-8-11
3-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.33	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.67	10-12	>512	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 177 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-14 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=204(LC 12)
Max Grav 14=1613(LC 21), 8=1413(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1585/313, 1-2=-2555/774, 2-3=-4880/1114, 3-4=-5029/1063, 4-6=-5029/1069, 6-7=-3294/671, 7-8=-1348/320
BOT CHORD 13-14=-417/526, 12-13=-828/2550, 10-12=-1163/4873, 9-10=-703/3288
WEBS 1-13=-503/2795, 2-13=-1232/297, 2-12=-626/2410, 3-12=-523/250, 4-10=-503/193, 6-10=-426/1832, 6-9=-1062/335, 7-9=-724/3426

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-16=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Chesterfield, MO 63017

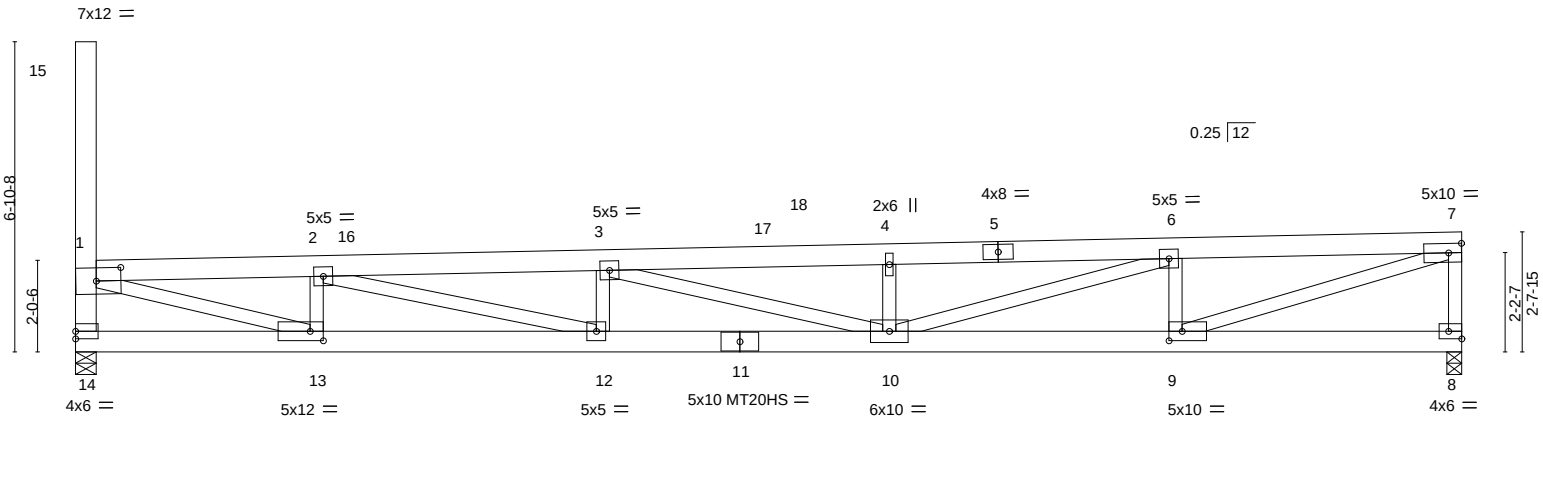
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M42	Monopitch	1	1	I52022224
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:03 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Uf3twFQVHvRgzCU0FuUaQ?oqiUd1PwfQ5nBhZ8zFInI

5-4-2	11-8-4	18-0-7	24-4-9	30-8-11
5-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Scale = 1:51.1



5-4-2	11-8-4	18-0-7	24-4-9	30-8-11
5-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-6-9,0-3-8], [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.41	10-12	>881	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.82	10-12	>443	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-14 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=228(LC 14)
Max Grav 14=1718(LC 21), 8=1516(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1613/326, 1-2=-4070/1052, 2-3=-6086/1290, 3-4=-5820/1147, 4-6=-5820/1153, 6-7=-3702/703, 7-8=-1434/314
BOT CHORD 13-14=-575/676, 12-13=-1104/4062, 10-12=-1336/6080, 9-10=-732/3696
WEBS 1-13=-772/3925, 2-13=-1087/294, 2-12=-560/2087, 3-12=-410/226, 3-10=-276/154, 4-10=-491/181, 6-10=-479/2228, 6-9=-1167/338, 7-9=-743/3821

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 15-6-15, Corner(3) 15-6-15 to 30-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

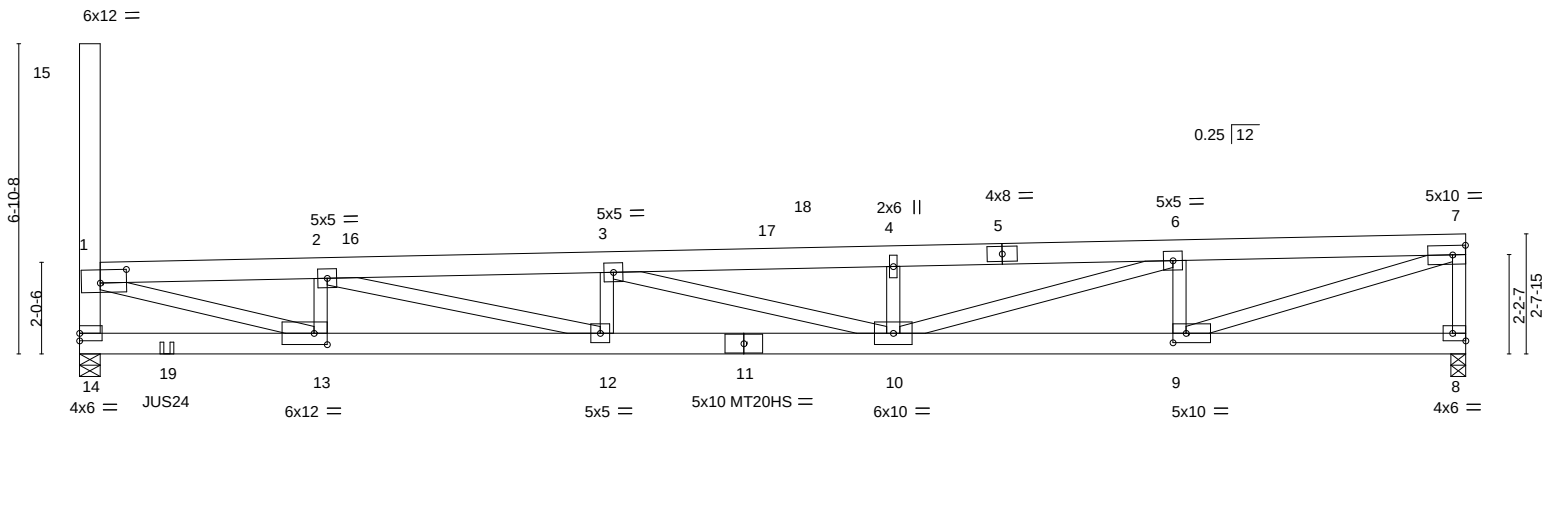
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	M42G	MONOPITCH GIRDER	2	1	I52022225
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:04 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-yrdG8bR72DZXbM3Cpc?pyCL?Rtz38NXaJRwE5bzFInH

5-4-2	11-8-4	18-0-7	24-4-9	30-8-11
5-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Scale = 1:51.1



5-4-2	11-8-4	18-0-7	24-4-9	30-8-11
5-4-2	6-4-2	6-4-3	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-7-0,0-3-8], [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.42	10-12	>864	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.83	10-12	>437	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 213 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-7 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=228(LC 40)
Max Grav 14=1856(LC 21), 8=1524(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1649/332, 1-2=-4206/1074, 2-3=-6168/1303, 3-4=-5873/1156, 4-6=-5873/1161, 6-7=-3726/706, 7-8=-1442/315
BOT CHORD 13-14=-581/687, 12-13=-1125/4197, 10-12=-1349/6161, 9-10=-736/3720
WEBS 1-13=-788/4022, 2-13=-1066/300, 2-12=-576/2031, 3-12=-404/228, 3-10=-306/159, 4-10=-491/181, 6-10=-484/2258, 6-9=-1176/339, 7-9=-747/3846

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 15-6-15, Corner(3) 15-6-15 to 30-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20

May 18,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 19=-147(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-147(F)
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-147(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 19=23(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 19=23(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 19=23(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 19=23(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-147(F)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 19=-98(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 19=-98(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 19=-98(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 19=-98(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T1	GABLE	1	1	I52022226
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:27 2022 Page 1
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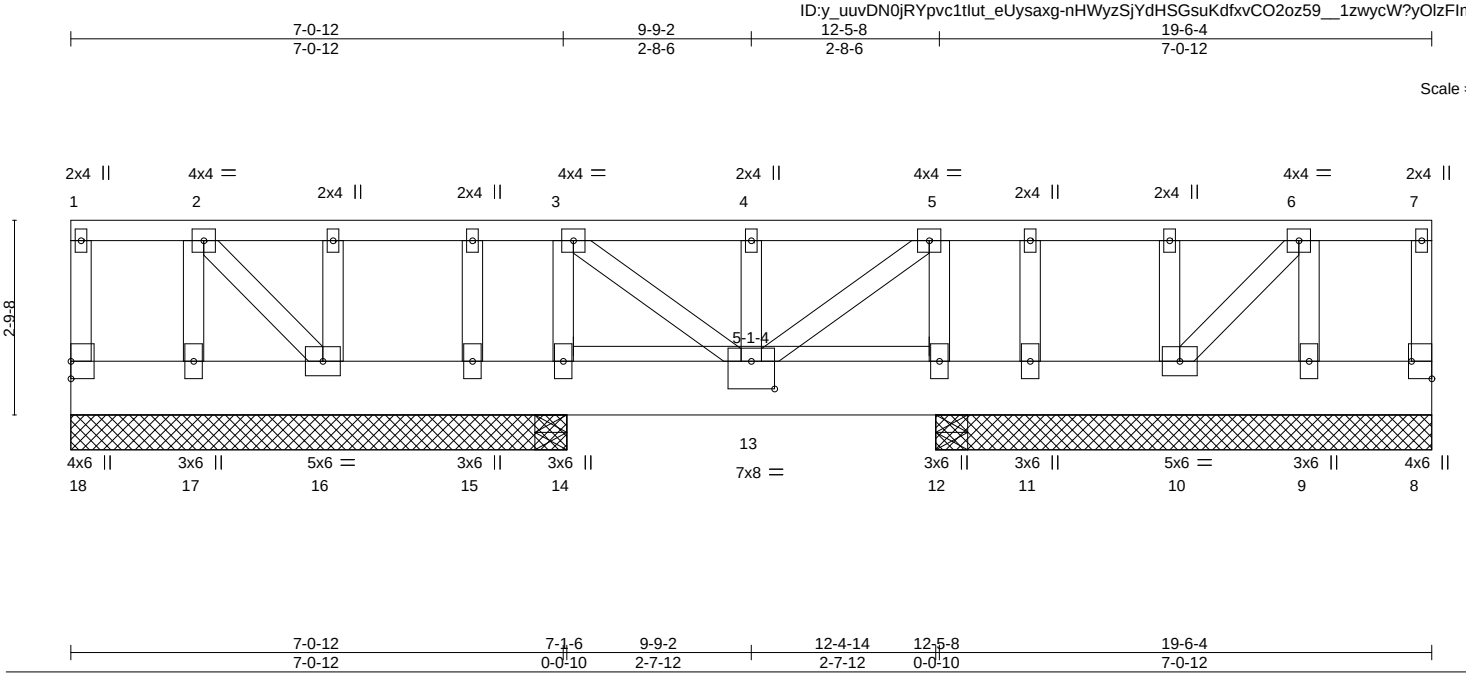

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [13:0-4-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.00	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 150 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 14=0-5-8, 14=0-5-8, 12=0-5-8, 12=0-5-8.
(lb) - Max Horz 18=-48(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 9 except 15=-1306(LC 28), 11=-1306(LC 28)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=555(LC 1), 10=555(LC 1), 14=4022(LC 1), 14=4022(LC 1), 12=4032(LC 28), 12=4022(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-594/89, 4-5=-594/89
WEBS 3-14=-969/383, 3-13=-306/979, 5-13=-306/1002, 5-12=-969/383, 2-16=-386/215, 6-10=-386/215

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9 except (jt=lb) 15=1306, 11=1306.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 14-18=-20, 12-14=-920(F=-900), 8-12=-20

May 18,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

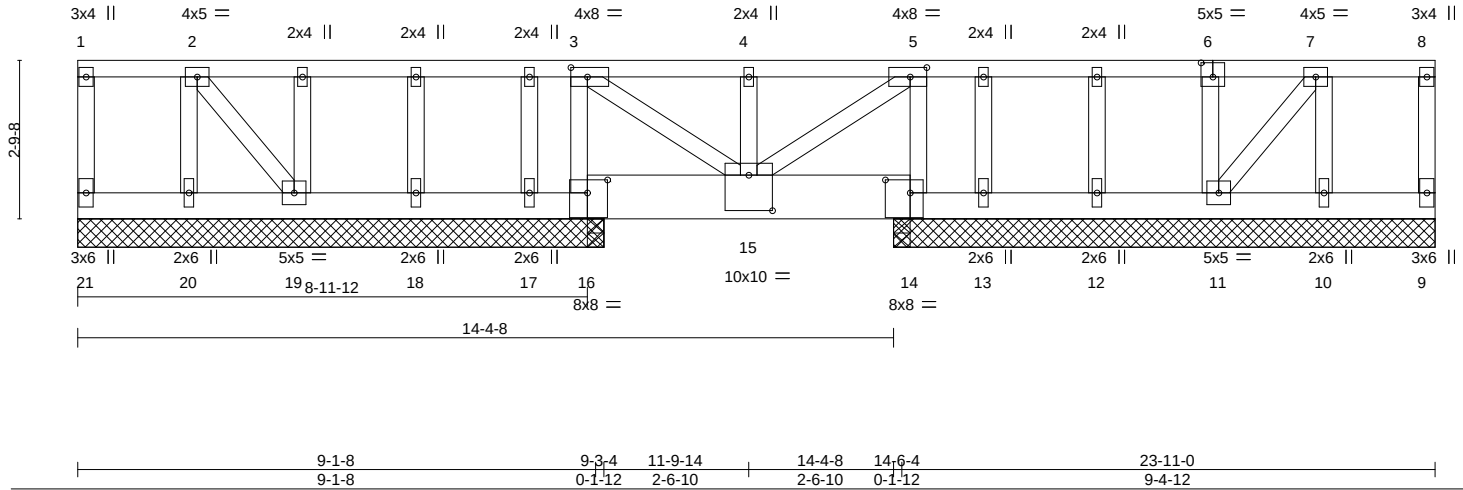
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T2	GABLE	1	1	I52022227
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:55 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-zfCYr1261u_IDCT0lpPmXyygMRRraUf42tnRN8zFlmU

9-1-8 | 11-9-14 | 14-6-4 | 23-11-0
9-1-8 | 2-8-6 | 2-8-6 | 9-4-12

Scale = 1:40.6



9-1-8 | 9-3-4 | 11-9-14 | 14-4-8 | 14-6-4 | 23-11-0
9-1-8 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 9-4-12

Plate Offsets (X,Y)-- [3:0-3-8,0-2-0], [5:0-3-8,0-2-0], [6:0-2-8,0-3-0], [14:0-5-4,0-2-12], [15:0-5-0,0-7-8], [16:0-4-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.02	15	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1 *Except* 14-16: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-0 oc bracing.

REACTIONS. All bearings 9-3-4 except (jt=length) 9=9-6-8, 14=9-6-8, 14=9-6-8, 13=9-6-8, 12=9-6-8, 11=9-6-8, 10=9-6-8.
(lb) - Max Horz 21=-180(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 11, 10 except 21=-134(LC 59), 9=-139(LC 60), 16=-1550(LC 39), 14=-1603(LC 42), 17=-1049(LC 63), 13=-752(LC 64)
Max Grav All reactions 250 lb or less at joint(s) 21, 9, 17, 18, 20, 13, 12, 10 except 16=5192(LC 64), 16=3929(LC 1), 14=4946(LC 63), 14=3664(LC 1), 19=431(LC 1), 11=452(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-341/348, 2-3=-1735/1761, 3-4=-1361/720, 4-5=-1324/674, 5-7=-1840/1867, 7-8=-341/348
BOT CHORD	20-21=-582/581, 19-20=-1057/1056, 18-19=-1627/1568, 17-18=-2139/2095, 16-17=-2369/2352, 15-16=-2590/2506, 14-15=-2584/2500, 13-14=-2343/2344, 12-13=-2039/2017, 11-12=-1526/1450, 10-11=-898/887, 9-10=-422/412
WEBS	3-15=-3250/4116, 5-15=-3328/4195, 3-16=-2758/2197, 5-14=-2814/2251, 2-19=-516/348, 7-11=-541/362

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 11, 10 except (jt=lb) 21=134, 9=139, 16=1550, 14=1603, 17=1049, 13=752.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-1-8, 14-4-8 to 23-11-0 for 256.3 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 16-21=-20, 14-16=-920(F=-900), 9-14=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T3	GABLE	1	1	I52022228
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:12 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-zxkzPrFn167tlpGHouDljY9gpILu3Fjay0PqUfzFImD

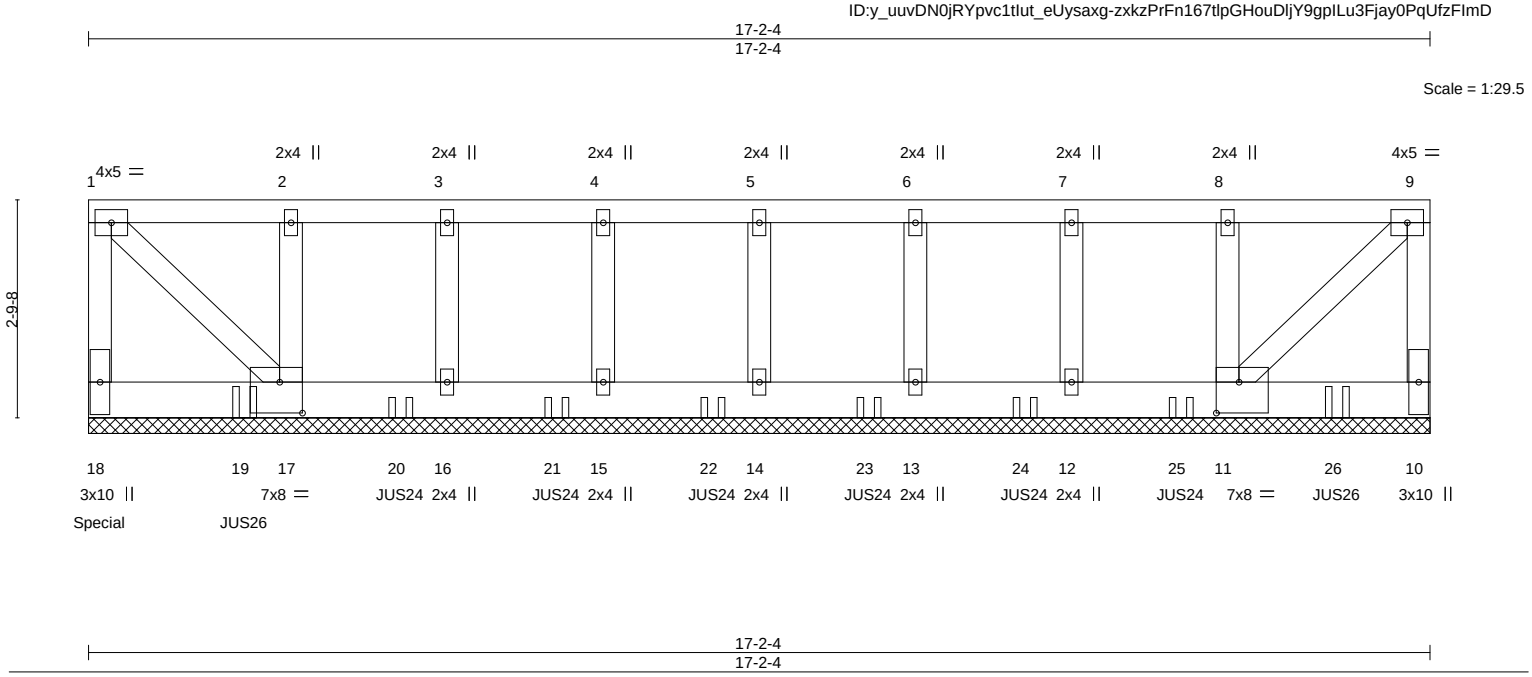

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 102 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-2-4.
(lb) - Max Horz 18=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1523(LC 39), 10=-1613(LC 42), 17=-1507(LC 42), 11=-1481(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2034(LC 60), 10=1831(LC 59), 14=726(LC 1), 15=752(LC 1), 16=680(LC 1), 17=2136(LC 59), 13=758(LC 1), 12=653(LC 1), 11=2173(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1697/1689, 1-2=-1648/1652, 2-3=-1208/1211, 3-4=-808/811, 4-5=-408/411, 5-6=-408/411, 6-7=-808/811, 7-8=-1208/1211, 8-9=-1648/1652, 9-10=-1717/1718
BOT CHORD	17-18=-559/566, 16-17=-1233/1237, 15-16=-833/837, 14-15=-433/437, 13-14=-433/437, 12-13=-833/837, 11-12=-1233/1237, 10-11=-510/514
WEBS	1-17=-2430/2432, 9-11=-2393/2393

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1523 lb uplift at joint 18, 1613 lb uplift at joint 10, 1507 lb uplift at joint 17 and 1481 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-2-4 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 14-0-0 oc max. starting at 2-0-0 from the left end to 16-0-0 to connect truss(es) to back face of bottom chord.

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NOTES-

14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-0 from the left end to 14-0-0 to connect truss(es) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 567 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-567(B) 19=-556(B) 20=-556(B) 21=-556(B) 22=-556(B) 23=-556(B) 24=-556(B) 25=-556(B) 26=-556(B)

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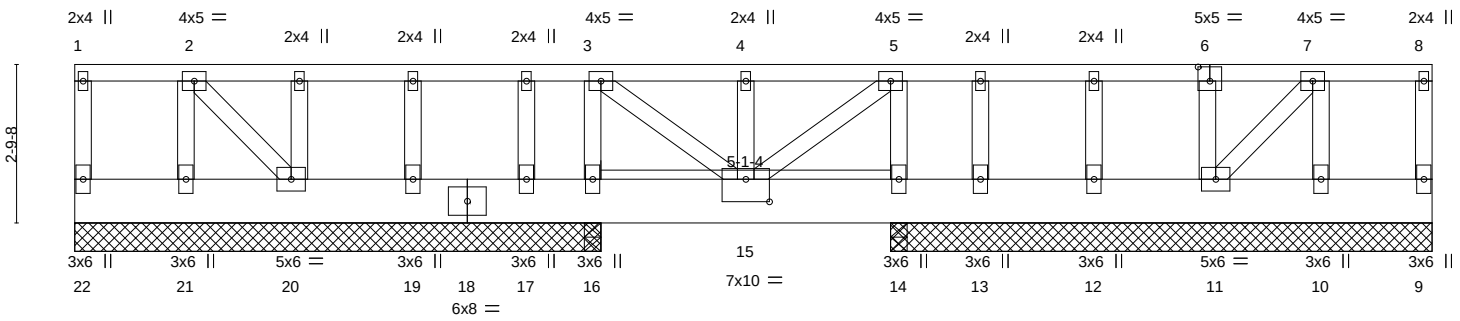
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T4	GABLE	1	1	I52022229
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:21 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-CgmNIwMQvtGcKCS?pHtsaR16WwQdgOQv1w4pIdzFIm4

9-1-8 | 11-9-14 | 14-6-4 | 23-11-0
9-1-8 | 2-8-6 | 2-8-6 | 9-4-12

Scale = 1:40.6



9-1-8 | 9-3-4 | 11-9-14 | 14-4-8 | 14-6-4 | 23-11-0
9-1-8 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 9-4-12

Plate Offsets (X,Y)-- [6:0-2-8,0-3-0], [15:0-5-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	15	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-3-4 except (jt=length) 9=9-6-8, 14=9-6-8, 14=9-6-8, 13=9-6-8, 12=9-6-8, 11=9-6-8, 10=9-6-8.
(lb) - Max Horz 22=-48(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 22, 9, 20, 11 except 17=-1449(LC 28), 13=-1169(LC 28)
Max Grav All reactions 250 lb or less at joint(s) 22, 9, 19, 21, 10 except 16=4206(LC 1), 16=4206(LC 1), 14=3935(LC 1), 14=3935(LC 1), 20=429(LC 1), 12=258(LC 24), 11=447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-179/340, 3-4=-483/0, 4-5=-483/0, 5-7=-188/356
BOT CHORD	19-20=-340/234, 17-19=-340/234, 16-17=-340/234, 15-16=-340/234, 14-15=-356/203, 13-14=-356/203, 12-13=-356/203, 11-12=-356/203
WEBS	3-16=-1061/376, 3-15=-229/939, 5-15=-240/976, 5-14=-1090/391, 2-20=-553/272, 7-11=-580/286

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 9, 20, 11 except (jt=lb) 17=1449, 13=1169.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T4	GABLE	1	1	I52022229
					Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-8=-70, 16-22=-20, 14-16=-920(F=-900), 9-14=-20

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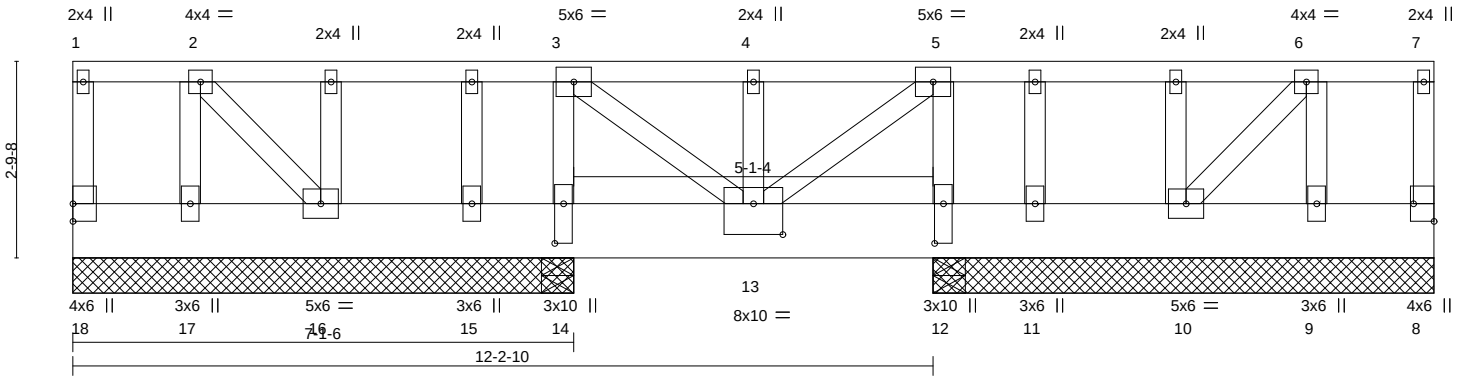
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T5	GABLE	1	1	I52022230
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:30 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ROpmB?T3oeOKvaekrgXzRLvj5YUeHMWE5pmn6czFIlx

6-11-10 | 9-8-0 | 12-4-6 | 19-4-0
6-11-10 | 2-8-6 | 2-8-6 | 6-11-10

Scale = 1:32.7



6-11-10 | 7-1-6 | 9-8-0 | 12-2-10 | 12-4-6 | 19-4-0
6-11-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 6-11-10

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-12,0-1-8], [13:0-5-0,0-5-4], [14:0-6-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 149 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 14=0-5-8, 14=0-5-8, 12=0-5-8, 12=0-5-8.
(lb) - Max Horz 18=-148(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 15=-1234(LC 63), 11=-1234(LC 63), 14=-1444(LC 39), 12=-1444(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=546(LC 1), 10=546(LC 1), 14=5007(LC 64), 14=3826(LC 1), 12=5022(LC 63), 12=3826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-359/362, 2-3=-1439/1440, 3-4=-1003/618, 4-5=-1003/618, 5-6=-1483/1484, 6-7=-353/352
BOT CHORD	17-18=-574/552, 16-17=-1078/1081, 15-16=-1676/1642, 14-15=-2029/1996, 13-14=-2029/1996, 12-13=-1936/1940, 11-12=-1936/1940, 10-11=-1582/1586, 9-10=-936/936, 8-9=-430/428
WEBS	3-14=-2254/1928, 3-13=-2683/3180, 5-13=-2741/3237, 5-12=-2291/1965, 2-16=-387/264, 6-10=-387/263

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 15=1234, 11=1234, 14=1444, 12=1444.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-1-6, 12-2-10 to 19-4-0 for 271.7 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-870(F=-850), 8-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T6	GABLE	1	1	I52022231
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:41 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-dW_wVmczC0nmkG_r_TEYOfsdY_FsMMwrd1ws_TzFIlm

17-3-0
17-3-0

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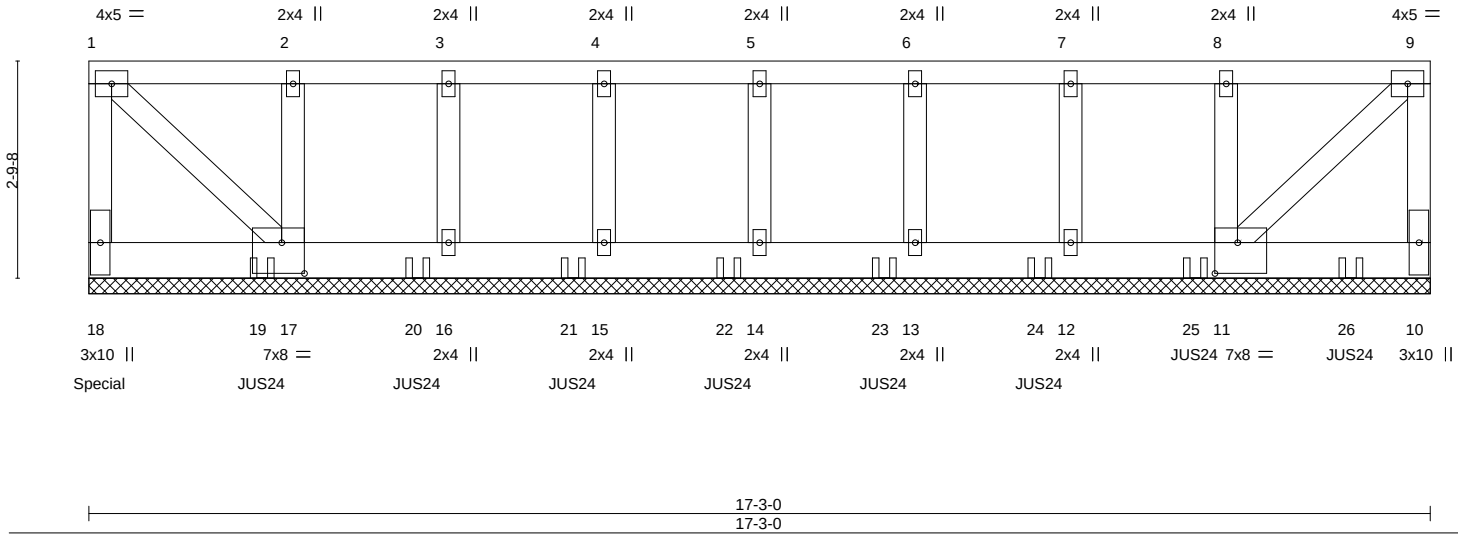

17-3-0
17-3-0

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 102 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-3-0.
(lb) - Max Horz 18=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1593(LC 39), 10=-1623(LC 42), 17=-1584(LC 42), 11=-1563(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1843(LC 60), 10=1765(LC 59), 14=440(LC 1), 15=454(LC 1), 16=415(LC 1), 17=1929(LC 59), 13=459(LC 1), 12=395(LC 1), 11=1957(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1682/1674, 1-2=-1654/1658, 2-3=-1208/1211, 3-4=-808/811, 4-5=-408/411, 5-6=-408/411, 6-7=-808/811, 7-8=-1208/1211, 8-9=-1654/1658, 9-10=-1702/1703
BOT CHORD	17-18=-566/572, 16-17=-1233/1237, 15-16=-833/837, 14-15=-433/437, 13-14=-433/437, 12-13=-833/837, 11-12=-1233/1237, 10-11=-516/520
WEBS	1-17=-2423/2426, 9-11=-2386/2387

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1593 lb uplift at joint 18, 1623 lb uplift at joint 10, 1584 lb uplift at joint 17 and 1563 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-3-0 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-12 from the left end to 16-2-12 to connect truss(es) to back face of bottom chord.

Continued on page 2

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 275 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-275(B) 19=-265(B) 20=-265(B) 21=-265(B) 22=-265(B) 23=-265(B) 24=-265(B) 25=-265(B) 26=-267(B)

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Chesterfield, MO 63017

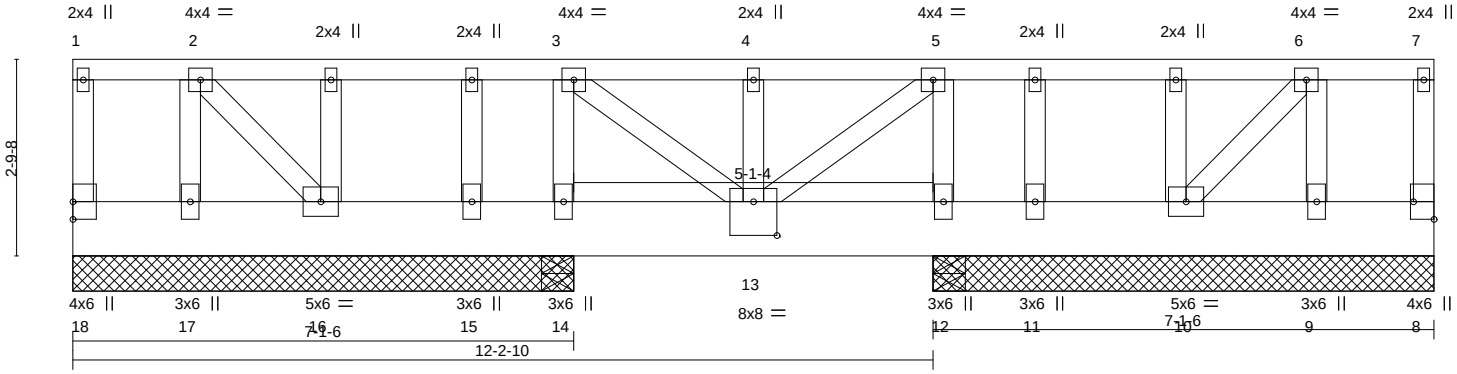
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T7	Roof Special Girder	1	1	I52022232
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-O2TyAVi_JUndhVbOS9NRjLB_OCz?E311THsIG?zFIle

6-11-10 | 9-8-0 | 12-4-6 | 19-4-0
6-11-10 | 2-8-6 | 2-8-6 | 6-11-10

Scale = 1:32.7



6-11-10 | 7-1-6 | 9-8-0 | 12-2-10 | 12-4-6 | 19-4-0
6-11-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 6-11-10

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [13:0-4-0,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 149 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 14=0-5-8, 14=0-5-8, 12=0-5-8, 12=0-5-8.
(lb) - Max Horz 18=-48(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 9 except 15=-1378(LC 24), 11=-1378(LC 24)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=568(LC 1), 10=568(LC 1), 14=4219(LC 24), 14=4219(LC 1), 12=4234(LC 24), 12=4219(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-634/102, 4-5=-634/102
WEBS 3-14=-1002/396, 3-13=-323/1032, 5-13=-324/1055, 5-12=-1002/396, 2-16=-387/217, 6-10=-387/217

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9 except (jt=lb) 15=1378, 11=1378.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 14-18=-20, 12-14=-970(F=-950), 8-12=-20

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Chesterfield, MO 63017

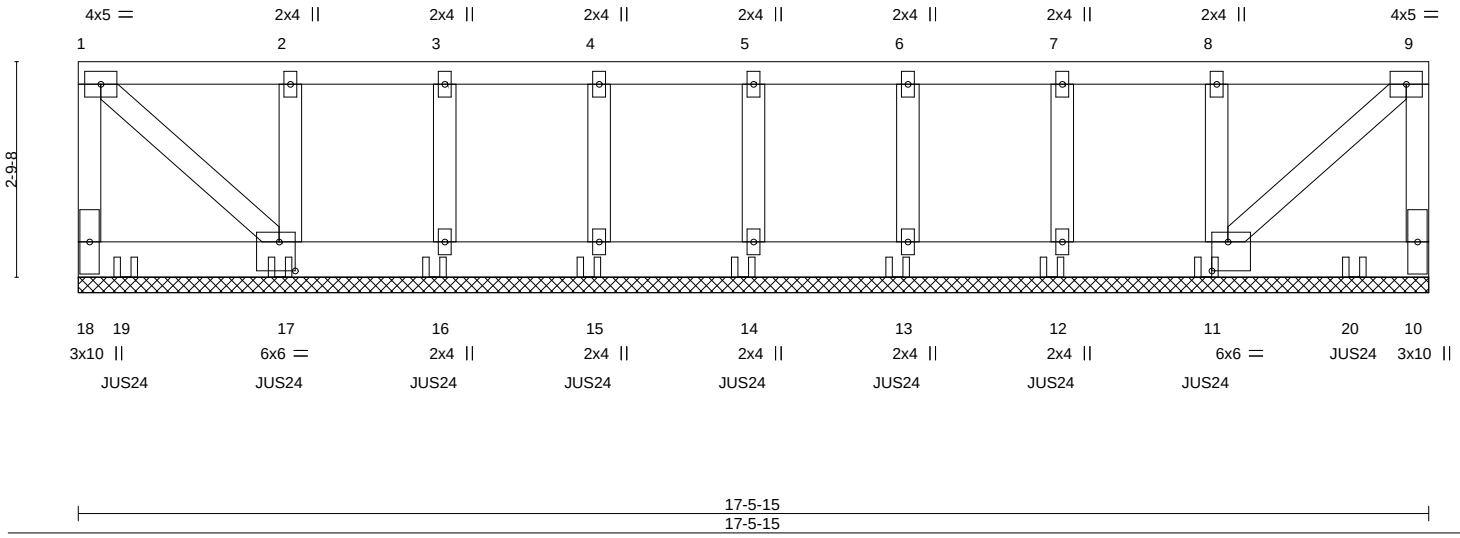
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T8	GABLE	1	1	I52022233
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:00 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-ZAd6UGrujsA3WBxVcz40fg8twelPJzhe?U1N9szFIlT

17-5-15
17-5-15

Scale = 1:29.8



17-5-15
17-5-15

Plate Offsets (X,Y)-- [11:0-2-8,0-4-8], [17:0-2-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 103 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-5-15.
(lb) - Max Horz 18=-52(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1559(LC 39), 10=-1562(LC 42), 17=-1519(LC 42), 11=-1499(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1747(LC 60), 10=1723(LC 59), 14=437(LC 1), 15=460(LC 1), 16=395(LC 1), 17=1901(LC 59), 13=464(LC 1), 12=377(LC 1), 11=1928(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1627/1619, 1-2=-1676/1680, 2-3=-1208/1211, 3-4=-808/811, 4-5=-408/411, 5-6=-408/411, 6-7=-808/811, 7-8=-1208/1211, 8-9=-1676/1680, 9-10=-1649/1649
BOT CHORD	17-18=-590/596, 16-17=-1233/1237, 15-16=-833/837, 14-15=-433/437, 13-14=-433/437, 12-13=-833/837, 11-12=-1233/1237, 10-11=-541/544
WEBS	1-17=-2402/2404, 9-11=-2366/2366

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1559 lb uplift at joint 18, 1562 lb uplift at joint 10, 1519 lb uplift at joint 17 and 1499 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-5-15 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-6 from the left end to 16-6-6 to connect truss(es) to back face of bottom chord.

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Continued to page 2

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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 14=-265(B) 15=-265(B) 16=-265(B) 17=-265(B) 13=-265(B) 12=-265(B) 11=-265(B) 19=-271(B) 20=-267(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T9	GABLE	1	1	I52022234
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:09 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-ovgWNKyXcdJo5a7EdMk7WZ0ObGqFw2Mz3OiL_rzFIlK

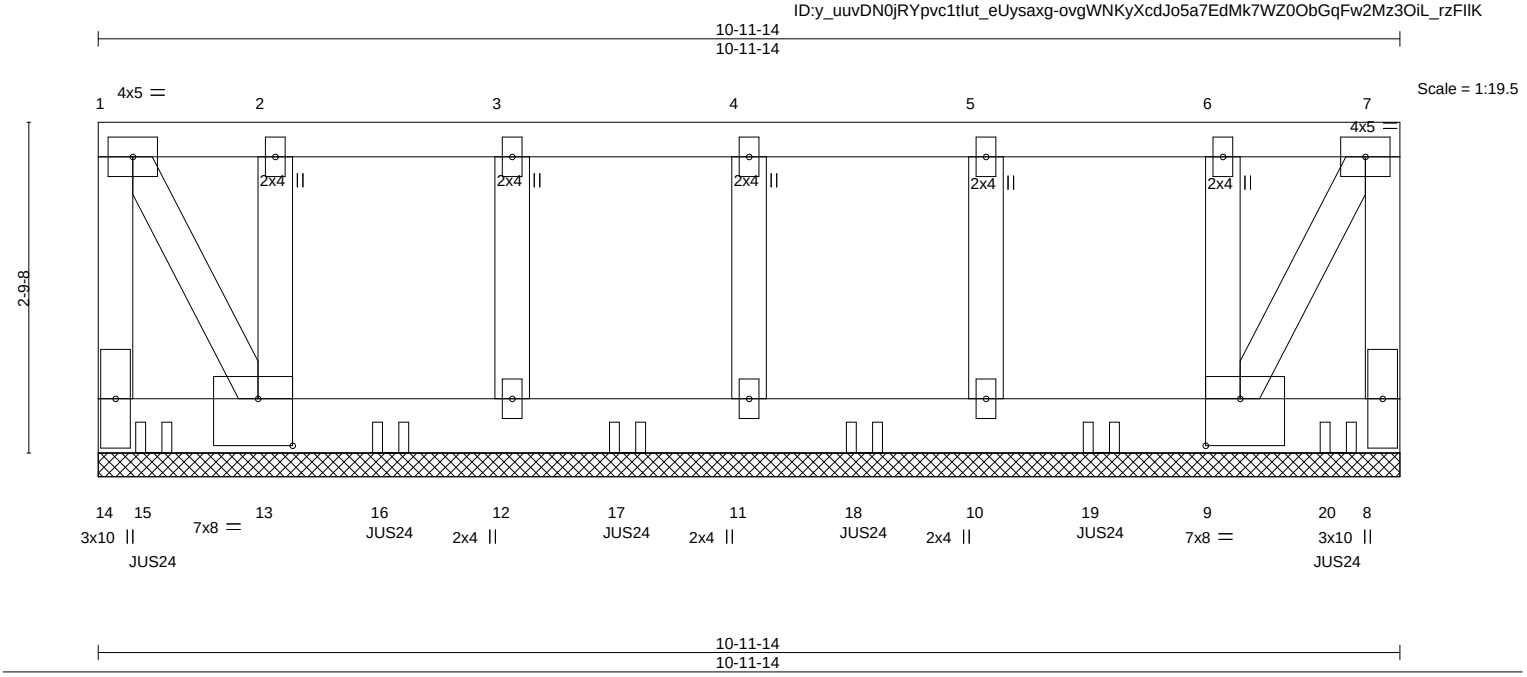

Plate Offsets (X,Y)-- [9:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 70 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-11-14.
(lb) - Max Horz 14=-52(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-1886(LC 39), 8=-1881(LC 42), 13=-1854(LC 42), 9=-1845(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 14=2002(LC 60), 8=1996(LC 59), 11=439(LC 1), 12=459(LC 1), 13=2098(LC 59), 10=458(LC 1), 9=2100(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1945/1947, 1-2=-1050/1050, 2-3=-807/804, 3-4=-401/407, 4-5=-401/407, 5-6=-807/804, 6-7=-1050/1050, 7-8=-1957/1959
BOT CHORD	13-14=-347/355, 12-13=-839/849, 11-12=-439/449, 10-11=-439/449, 9-10=-839/849, 8-9=-290/298
WEBS	1-13=-2271/2275, 7-9=-2235/2239

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1886 lb uplift at joint 14, 1881 lb uplift at joint 8, 1854 lb uplift at joint 13 and 1845 lb uplift at joint 9.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-11-14 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-5-10 from the left end to 10-5-10 to connect truss(es) to back face of bottom chord.

Continued on page 2

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 15=-272(B) 16=-265(B) 17=-265(B) 18=-265(B) 19=-265(B) 20=-272(B)

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T11	GABLE	1	1	I52022235
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:29 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-kfdiN8ko9vi_5CU0mMxgTTtCJycKVsBF3qU3TezFImu

9-9-12 | 12-7-14 | 15-6-0 | 25-3-12
9-9-12 | 2-10-2 | 2-10-2 | 9-9-12

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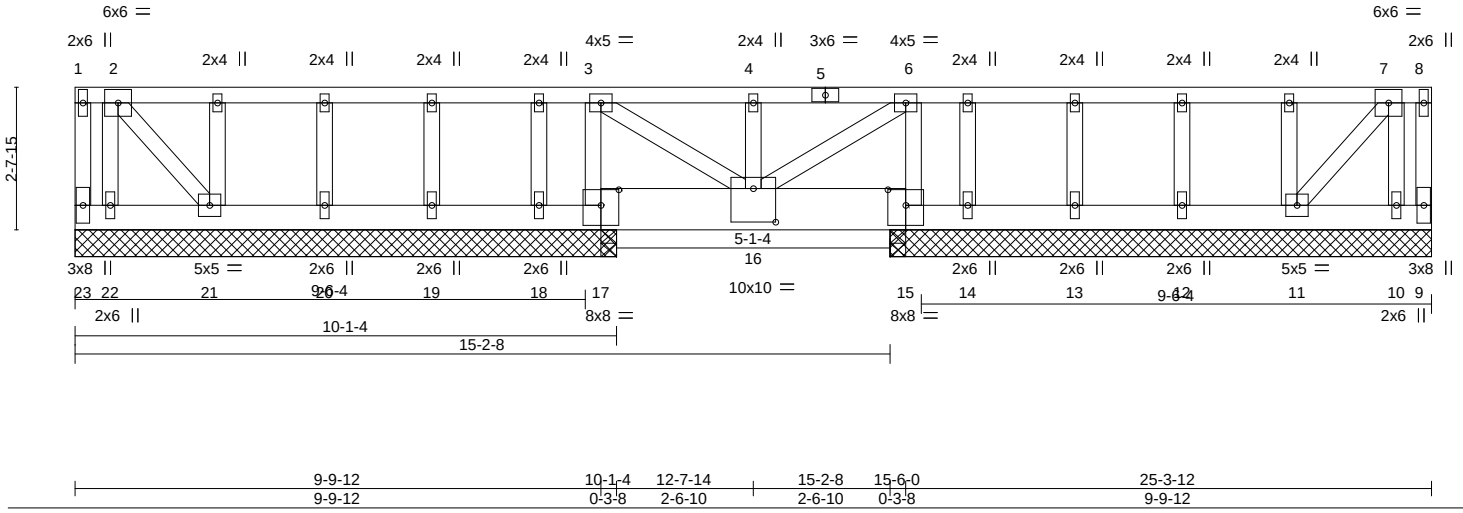

9-9-12 | 10-1-4 | 12-7-14 | 15-2-8 | 15-6-0 | 25-3-12
9-9-12 | 0-3-8 | 2-6-10 | 2-6-10 | 0-3-8 | 9-9-12

Plate Offsets (X,Y)-- [15:0-4-0,0-3-8], [16:0-5-0,0-7-8], [17:0-4-0,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.01	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.02	16	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.01	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 165 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 15-17: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 22-23,9-10.

REACTIONS. All bearings 10-1-4.
(lb) - Max Horz 23=55(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 21, 22, 11, 10 except 23=-444(LC 1), 9=-444(LC 1), 18=-655(LC 63), 14=-653(LC 64)
Max Grav All reactions 250 lb or less at joint(s) 23, 9, 19, 20, 22, 13, 12, 10 except 17=3435(LC 64), 17=3423(LC 1), 15=3447(LC 63), 15=3423(LC 1), 21=917(LC 1), 11=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-252/510, 2-3=-315/608, 3-4=-610/0, 4-6=-610/0, 6-7=-353/608, 8-9=-252/510
BOT CHORD	20-21=-608/344, 19-20=-608/344, 18-19=-608/344, 17-18=-570/337, 16-17=-738/382, 15-16=-738/385, 14-15=-570/335, 13-14=-608/331, 12-13=-608/309, 11-12=-608/306
WEBS	3-17=-1352/484, 3-16=-347/1408, 6-16=-396/1429, 6-15=-1351/513, 2-21=-1081/528, 7-11=-1081/527

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 22, 11, 10 except (jt=lb) 23=444, 9=444, 18=655, 14=653.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-1-4, 15-2-8 to 25-3-12 for 9.9 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T11	GABLE	1	1	I52022235
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 17-23=-20, 15-17=-820(F=-800), 9-15=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T12	GABLE	1	1	I52022236
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:34 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-4dRbRsox_RLGBzMzZvXrAXa4BzN89?d_D6Bq8rzFImp

23-9-10
23-9-10

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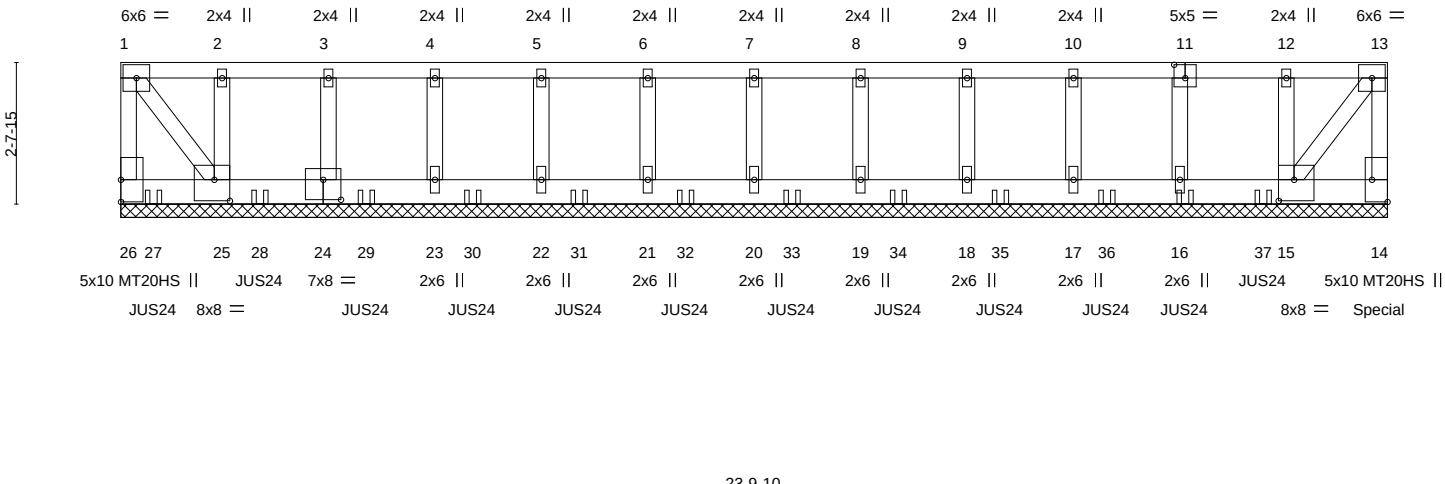

23-9-10
23-9-10

Plate Offsets (X,Y)-- [11:0-2-8,0-3-0], [14:Edge,0-3-8], [15:0-3-8,0-4-12], [24:0-4-0,0-4-8], [25:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0.01	20	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 135 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-6-14 oc bracing.

REACTIONS. All bearings 23-9-10.
(lb) - Max Horz 26=-49(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 26=-3045(LC 39), 14=-3004(LC 42), 25=-3032(LC 42), 15=-2998(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 26=3175(LC 60), 14=3219(LC 59), 20=445(LC 1), 21=447(LC 1), 22=442(LC 1), 23=459(LC 1), 24=443(LC 1), 25=3314(LC 59), 19=447(LC 1), 18=453(LC 1), 17=461(LC 1), 16=582(LC 1), 15=3252(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-26=-3048/3045, 1-2=-2358/2355, 2-3=-2007/2011, 3-4=-1609/1607, 4-5=-1205/1207, 5-6=-809/807, 6-7=-409/407, 7-8=-410/409, 8-9=-810/809, 9-10=-1210/1209, 10-11=-1626/1628, 11-12=-2010/2006, 12-13=-2361/2357, 13-14=-3054/3050
BOT CHORD	25-26=-332/371, 24-25=-2030/2024, 23-24=-1649/1648, 22-23=-1229/1228, 21-22=-829/828, 20-21=-429/428, 19-20=-430/429, 18-19=-830/829, 17-18=-1230/1229, 16-17=-1630/1629, 15-16=-2027/1991, 14-15=-328/331
WEBS	1-25=-3851/3849, 13-15=-3810/3811

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3045 lb uplift at joint 26, 3004 lb uplift at joint 14, 3032 lb uplift at joint 25 and 2998 lb uplift at joint 15.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

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Chesterfield, MO 63017

NOTES-

13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 23-9-10 for 200.0 plf.
14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-6 from the left end to 21-5-10 to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 274 lb down at 23-7-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-13=-70, 14-26=-20
   Concentrated Loads (lb)
   Vert: 14=-274(F) 16=-265(F) 27=-271(F) 28=-265(F) 29=-265(F) 30=-265(F) 31=-265(F) 32=-265(F) 33=-265(F) 34=-265(F) 35=-265(F) 36=-265(F) 37=-265(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

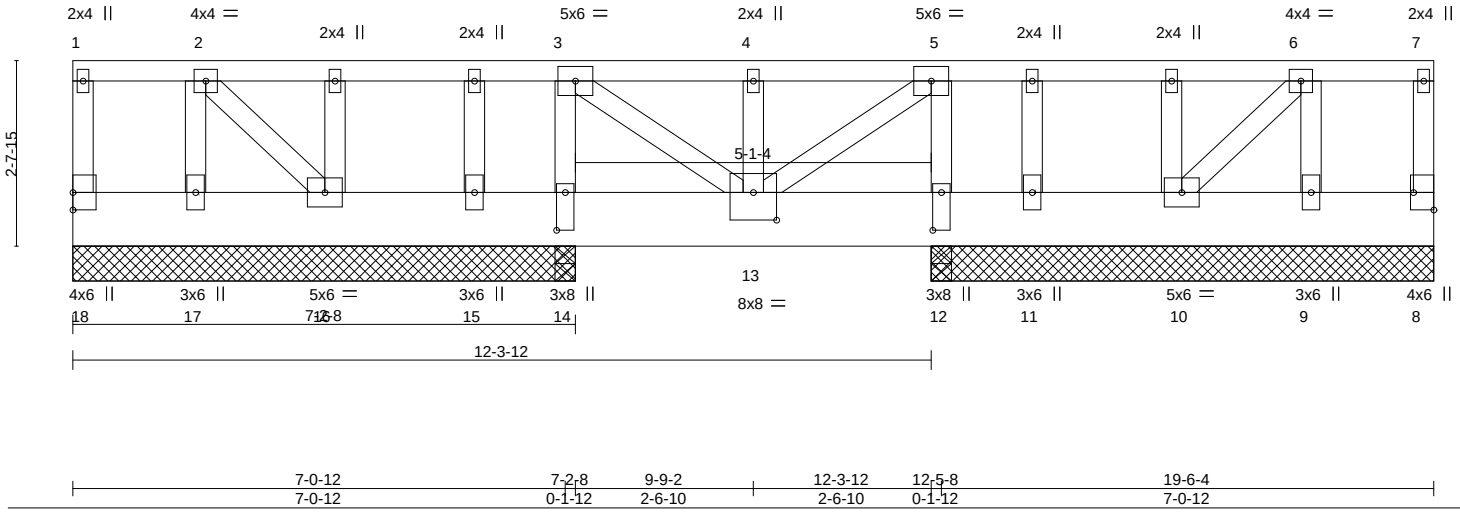
Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T13	GABLE	1	1	I52022237
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:36 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-0?YMrXqBW2b_RHWMhKZJFyfUbn3qdx4HgQgwCkzFlmn

7-0-12 | 9-9-2 | 12-5-8 | 19-6-4
7-0-12 | 2-8-6 | 2-8-6 | 7-0-12

Scale = 1:33.0



7-0-12 | 7-2-8 | 9-9-2 | 12-3-12 | 12-5-8 | 19-6-4
7-0-12 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 7-0-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-8,0-1-8], [13:0-4-0,0-4-12], [14:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8.
(lb) - Max Horz 18=-145(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 14=-1356(LC 39), 12=-1356(LC 42), 15=-1323(LC 63), 11=-1323(LC 63)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 14=5168(LC 64), 14=4036(LC 1), 12=5182(LC 63), 12=4036(LC 1), 16=557(LC 1), 10=557(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-376/379, 2-3=-1466/1467, 3-4=-1047/631, 4-5=-1047/631, 5-6=-1507/1509, 6-7=-370/370
BOT CHORD	17-18=-594/573, 16-17=-1096/1099, 15-16=-1697/1672, 14-15=-2050/2025, 13-14=-2050/2025, 12-13=-1963/1966, 11-12=-1963/1966, 10-11=-1610/1614, 9-10=-957/957, 8-9=-453/451
WEBS	3-14=-2196/1860, 3-13=-2672/3201, 5-13=-2724/3253, 5-12=-2229/1892, 2-16=-394/265, 6-10=-394/263

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 14=1356, 12=1356, 15=1323, 11=1323.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-2-8, 12-3-12 to 19-6-4 for 270.8 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Continued on page 2

LOAD CASE(S) Standard

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T13	GABLE	1	1	I52022237
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-920(F=-900), 8-12=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T14	GABLE	1	1	I52022238
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:39 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-RaEUUZs4ozzZIlFxMS70taH2O_5GqLjjNOvap3zFImk

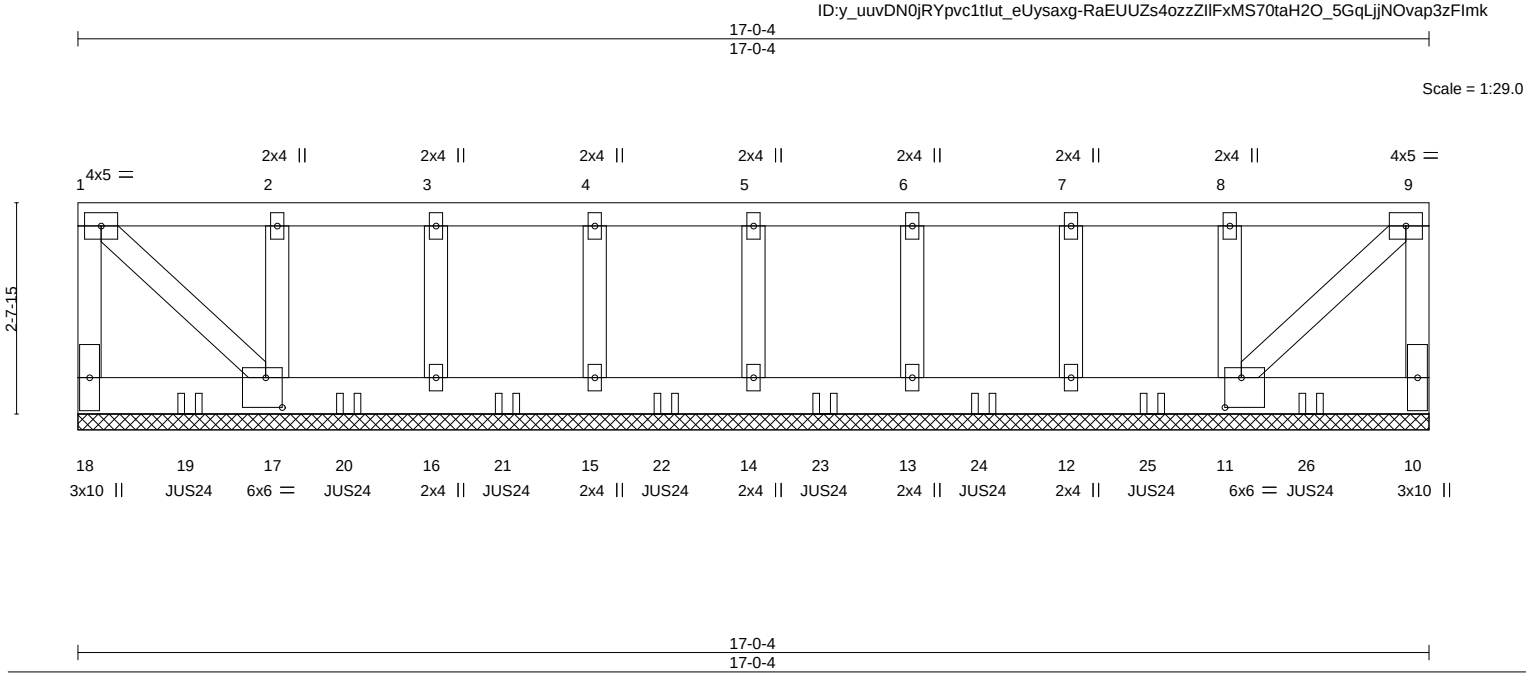

Plate Offsets (X,Y)-- [11:0-2-8,0-4-8], [17:0-2-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 99 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-0-4.
(lb) - Max Horz 18=-49(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1606(LC 39), 10=-1601(LC 42), 17=-1538(LC 42), 11=-1530(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1698(LC 60), 10=1694(LC 59), 14=440(LC 1), 15=457(LC 1), 16=405(LC 1), 17=1907(LC 59), 13=458(LC 1), 12=386(LC 1), 11=1907(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1644/1636, 1-2=-1633/1637, 2-3=-1208/1211, 3-4=-808/811, 4-5=-408/411, 5-6=-408/411, 6-7=-808/811, 7-8=-1208/1211, 8-9=-1633/1637, 9-10=-1663/1664
BOT CHORD	17-18=-539/545, 16-17=-1231/1235, 15-16=-831/835, 14-15=-431/435, 13-14=-431/435, 12-13=-831/835, 11-12=-1231/1235, 10-11=-492/496
WEBS	1-17=-2379/2381, 9-11=-2343/2344

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1606 lb uplift at joint 18, 1601 lb uplift at joint 10, 1538 lb uplift at joint 17 and 1530 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-0-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-1-8 oc max. starting at 1-4-15 from the left end to 15-6-7 to connect truss(es) to front face of bottom chord.

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-265(F) 20=-265(F) 21=-265(F) 22=-265(F) 23=-265(F) 24=-265(F) 25=-265(F) 26=-265(F)

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T15	GABLE	1	1	I52022239
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:41 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-NzMFvFtKKaDHX2OJTt9Uy?NLNomIIBc0qiOhuyzFImi

7-0-12 | 9-9-2 | 12-5-8 | 19-6-4
7-0-12 | 2-8-6 | 2-8-6 | 7-0-12

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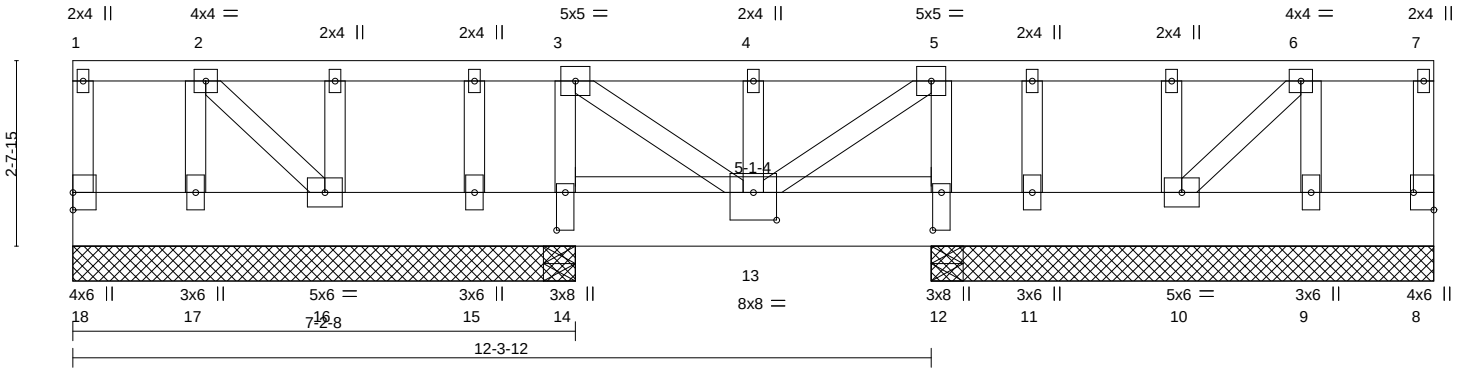

7-0-12 | 7-2-8 | 9-9-2 | 12-3-12 | 12-5-8 | 19-6-4
7-0-12 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 7-0-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-8,0-1-8], [13:0-4-0,0-4-12], [14:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8 except (jt=length) 14=0-5-8, 14=0-5-8, 12=0-5-8, 12=0-5-8.
(lb) - Max Horz 18=-145(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 15=-1177(LC 63), 11=-1177(LC 63), 14=-1374(LC 39), 12=-1374(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=535(LC 1), 10=535(LC 1), 14=4761(LC 64), 14=3641(LC 1), 12=4774(LC 63), 12=3641(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-376/379, 2-3=-1466/1468, 3-4=-987/607, 4-5=-987/607, 5-6=-1507/1509, 6-7=-370/370
BOT CHORD	17-18=-594/573, 16-17=-1096/1099, 15-16=-1697/1672, 14-15=-2050/2025, 13-14=-2050/2025, 12-13=-1963/1966, 11-12=-1963/1966, 10-11=-1611/1614, 9-10=-957/957, 8-9=-453/451
WEBS	3-14=-2142/1840, 3-13=-2641/3115, 5-13=-2693/3167, 5-12=-2175/1873, 2-16=-394/265, 6-10=-394/263

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 15=1177, 11=1177, 14=1374, 12=1374.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-2-8, 12-3-12 to 19-6-4 for 270.8 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T15	GABLE	1	1	I52022239
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-820(F=-800), 8-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T16	GABLE	1	1	I52022240
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:44 2022 Page 1
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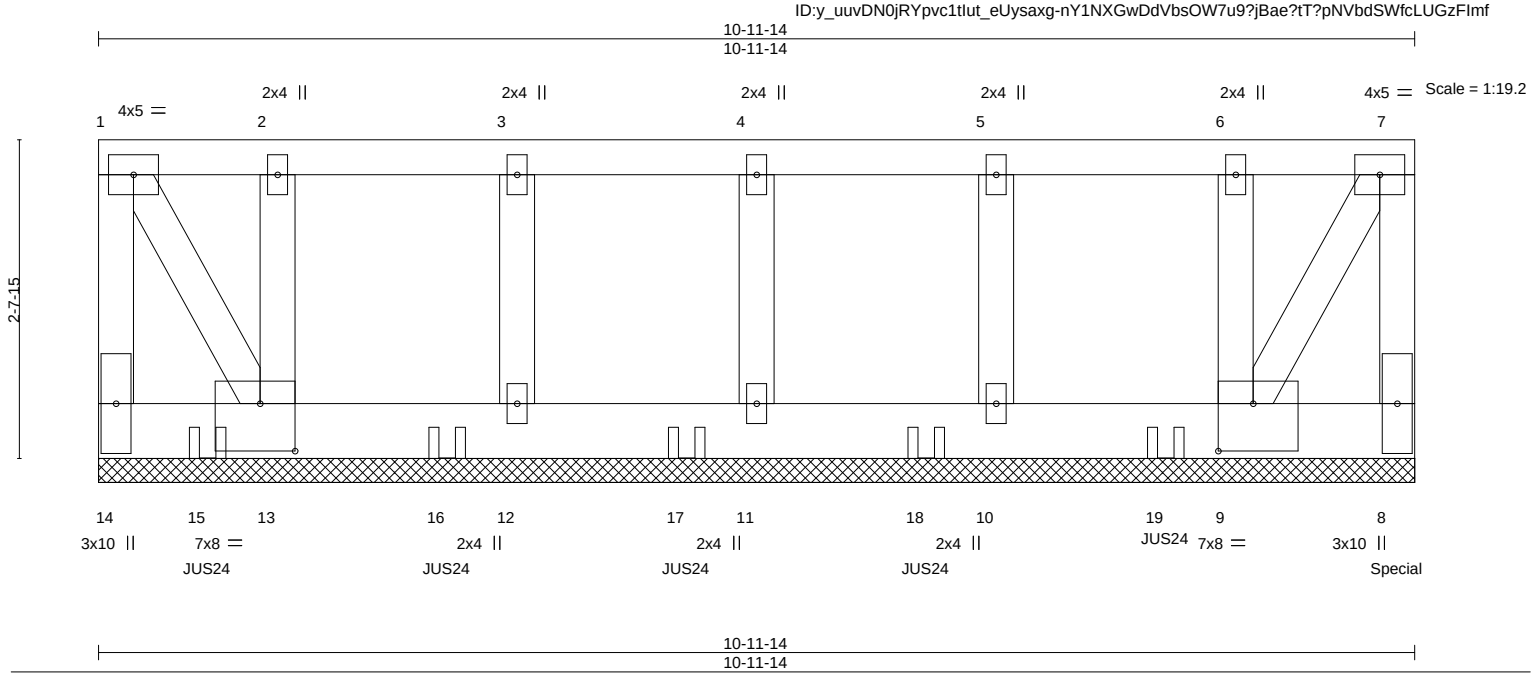

Plate Offsets (X,Y)-- [9:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 68 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-11-14.
(lb) - Max Horz 14=-49(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-1802(LC 39), 8=-1753(LC 42), 13=-1744(LC 42), 9=-1751(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 14=1855(LC 60), 8=1942(LC 59), 11=440(LC 1), 12=451(LC 1), 13=2011(LC 59), 10=463(LC 1), 9=1981(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1837/1839, 1-2=-1050/1050, 2-3=-807/804, 3-4=-407/407, 4-5=-407/407, 5-6=-807/804, 6-7=-1050/1050, 7-8=-1849/1851
BOT CHORD	13-14=-343/351, 12-13=-836/846, 11-12=-436/446, 10-11=-436/446, 9-10=-836/846, 8-9=-289/296
WEBS	1-13=-2175/2178, 7-9=-2139/2143

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1802 lb uplift at joint 14, 1753 lb uplift at joint 8, 1744 lb uplift at joint 13 and 1751 lb uplift at joint 9.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-11-14 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-15 from the left end to 8-10-15 to connect truss(es) to front face of bottom chord.

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May 18,2022

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down at 10-10-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 8=-276(F) 15=-268(F) 16=-265(F) 17=-265(F) 18=-265(F) 19=-265(F)

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T17	GABLE	1	1	I52022241
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:47 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-C7jW9ly5wQzQFzsTq8GuCGdOJDqqiyuvCdr05bzFImc

17-9-5
17-9-5

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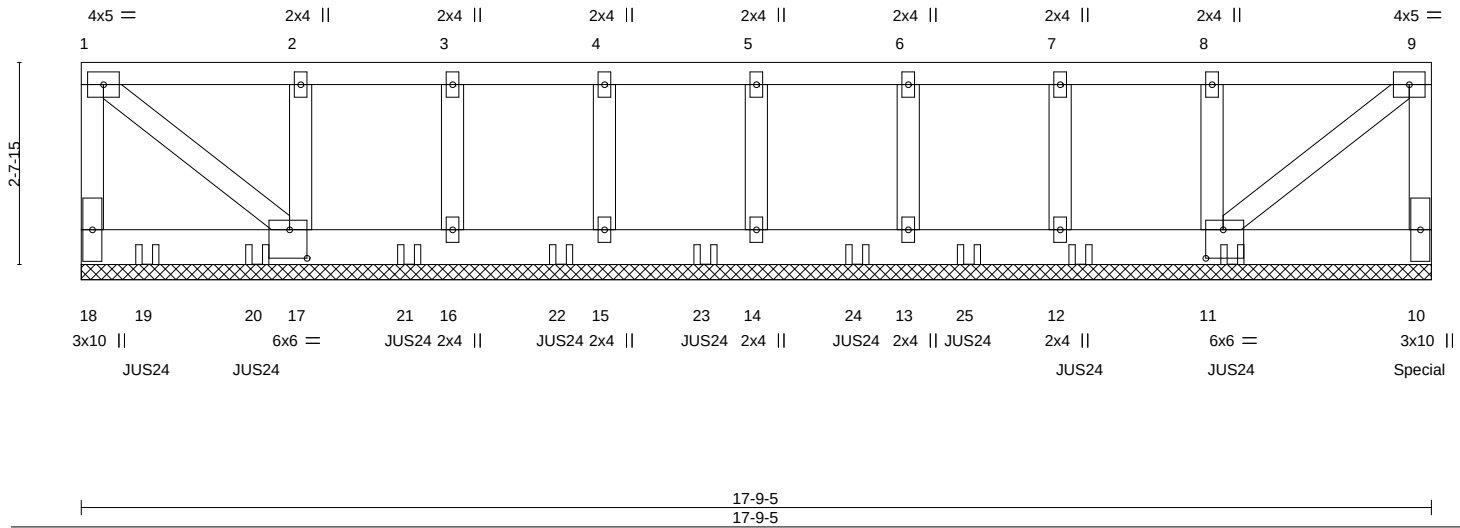

17-9-5
17-9-5

Plate Offsets (X,Y)-- [11:0-2-12,0-4-8], [17:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 103 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-9-5.
(lb) - Max Horz 18=-49(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1418(LC 39), 10=-1391(LC 42), 17=-1353(LC 42), 11=-1393(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1607(LC 60), 10=1648(LC 59), 14=422(LC 1), 15=489(LC 1), 16=350(LC 1), 17=1819(LC 59), 13=564(LC 1), 12=514(LC 1), 11=1716(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1486/1477, 1-2=-1701/1705, 2-3=-1207/1211, 3-4=-807/811, 4-5=-407/411, 5-6=-407/411, 6-7=-807/811, 7-8=-1207/1211, 8-9=-1701/1705, 9-10=-1508/1509
BOT CHORD 17-18=-614/620, 16-17=-1231/1234, 15-16=-831/834, 14-15=-431/434, 13-14=-431/434, 12-13=-831/834, 11-12=-1231/1234, 10-11=-568/571
WEBS 1-17=-2325/2327, 9-11=-2292/2291

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1418 lb uplift at joint 18, 1391 lb uplift at joint 10, 1353 lb uplift at joint 17 and 1393 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-9-5 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-7 from the left end to 15-1-14 to connect truss(es) to front face of bottom chord.

Continued on page 2

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down at 17-7-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 10=-276(F) 12=-265(F) 11=-265(F) 19=-268(F) 20=-265(F) 21=-265(F) 22=-265(F) 23=-265(F) 24=-265(F) 25=-265(F)

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T18	GABLE	1	1	I52022242
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:49 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-8WrGa__LS2E8VH0sxYIMHhiiP0VuApqCgxK6AUzFIma

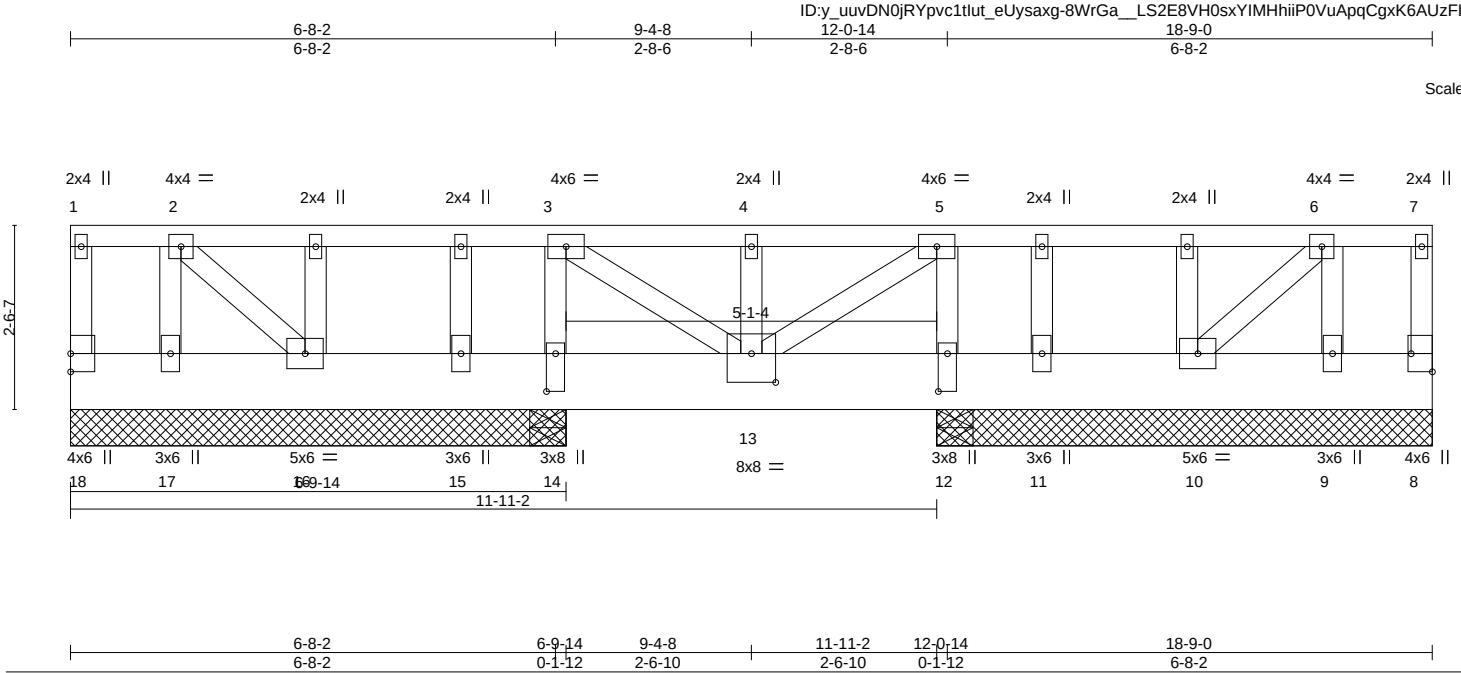

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-4,0-1-8], [13:0-4-0,0-4-12], [14:0-6-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	13	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 141 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-9-14 except (jt=length) 14=0-6-0, 14=0-6-0, 12=0-6-0, 12=0-6-0.
(lb) - Max Horz 18=-101(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 15=-1343(LC 64), 11=-1344(LC 64), 14=-1201(LC 39), 12=-1201(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=570(LC 1), 10=570(LC 1), 14=5071(LC 64), 14=4051(LC 1), 12=5083(LC 63), 12=4051(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-298/300, 2-3=-1391/1390, 3-4=-1058/633, 4-5=-1058/634, 5-6=-1429/1428, 6-7=-292/292
BOT CHORD	17-18=-349/347, 16-17=-881/883, 15-16=-1515/1499, 14-15=-1889/1872, 13-14=-1889/1872, 12-13=-1963/1969, 11-12=-1963/1969, 10-11=-1589/1595, 9-10=-902/902, 8-9=-367/366
WEBS	3-14=-2033/1716, 3-13=-2522/3046, 5-13=-2570/3093, 5-12=-2063/1745, 2-16=-414/302, 6-10=-414/301

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 15=1343, 11=1344, 14=1201, 12=1201.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-6-6, 12-2-10 to 18-9-0 for 287.1 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-920(F=-900), 8-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T19	GABLE	1	1	I52022243
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:52 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-Y4WPC?0EkzcjMkkRdhs3vKKGAEWvNDGeMvYnnpzFImX

17-6-0
17-6-0

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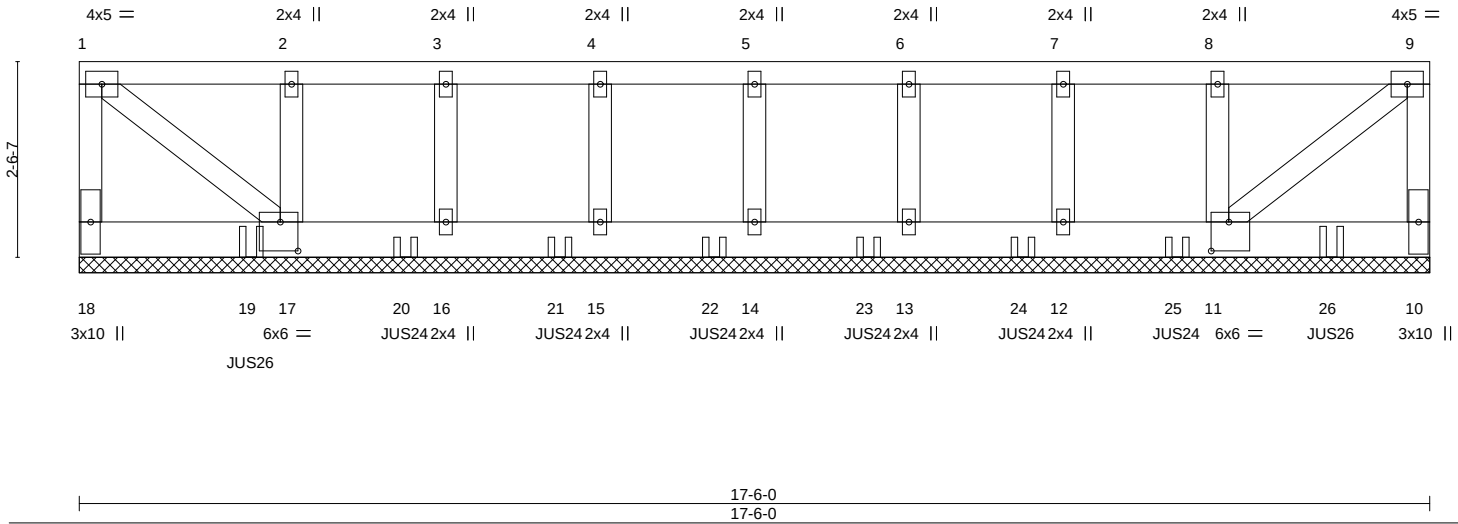

17-6-0
17-6-0

Plate Offsets (X,Y)-- [11:0-2-12,0-4-8], [17:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 99 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-6-0.
(lb) - Max Horz 18=-46(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1421(LC 39), 10=-1371(LC 42), 17=-1265(LC 42), 11=-1232(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1502(LC 60), 10=1594(LC 59), 14=725(LC 1), 15=753(LC 1), 16=675(LC 1), 17=1901(LC 59), 13=764(LC 1), 12=634(LC 1), 11=1985(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1455/1446, 1-2=-1676/1679, 2-3=-1207/1211, 3-4=-807/811, 4-5=-407/411, 5-6=-407/411, 6-7=-807/811, 7-8=-1207/1211, 8-9=-1676/1679, 9-10=-1476/1477
BOT CHORD 17-18=-583/589, 16-17=-1230/1232, 15-16=-830/832, 14-15=-430/432, 13-14=-430/432, 12-13=-830/832, 11-12=-1230/1232, 10-11=-539/542
WEBS 1-17=-2282/2285, 9-11=-2251/2250

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1421 lb uplift at joint 18, 1371 lb uplift at joint 10, 1265 lb uplift at joint 17 and 1232 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-6-0 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 14-0-0 oc max. starting at 2-2-12 from the left end to 16-2-12 to connect truss(es) to front face of bottom chord.

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Continued on page 2

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NOTES-

14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-2-12 from the left end to 14-2-12 to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-556(F) 20=-556(F) 21=-556(F) 22=-556(F) 23=-556(F) 24=-556(F) 25=-556(F) 26=-556(F)

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T20	GABLE	1	1	I52022244
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:56 2022 Page 1
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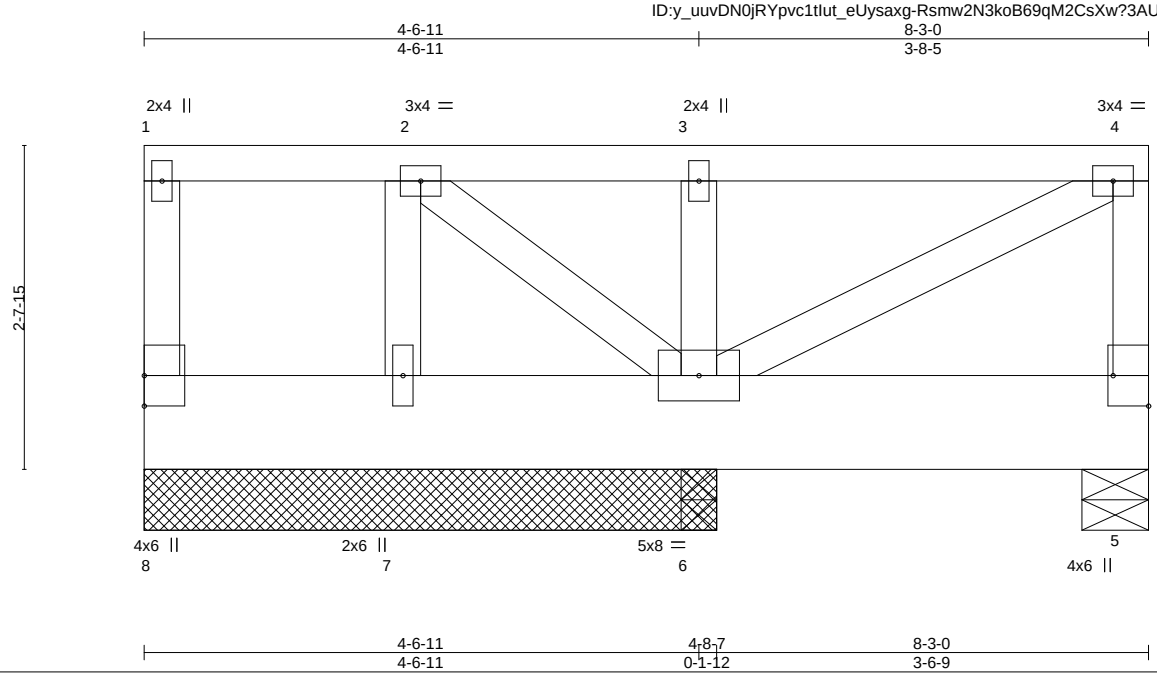

Plate Offsets (X,Y)-- [5:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 64 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 8-3-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-8-7 except (jt=length) 5=0-6-9.
(lb) - Max Horz 8=-45(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 7=-264(LC 28)
Max Grav All reactions 250 lb or less at joint(s) 8, 7 except 5=745(LC 28), 6=1701(LC 1), 6=1701(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-261/214

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 6-8=-20, 5-6=-470(F=-450)

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T21	GABLE	1	1	I52022245
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:46:59 2022 Page 1
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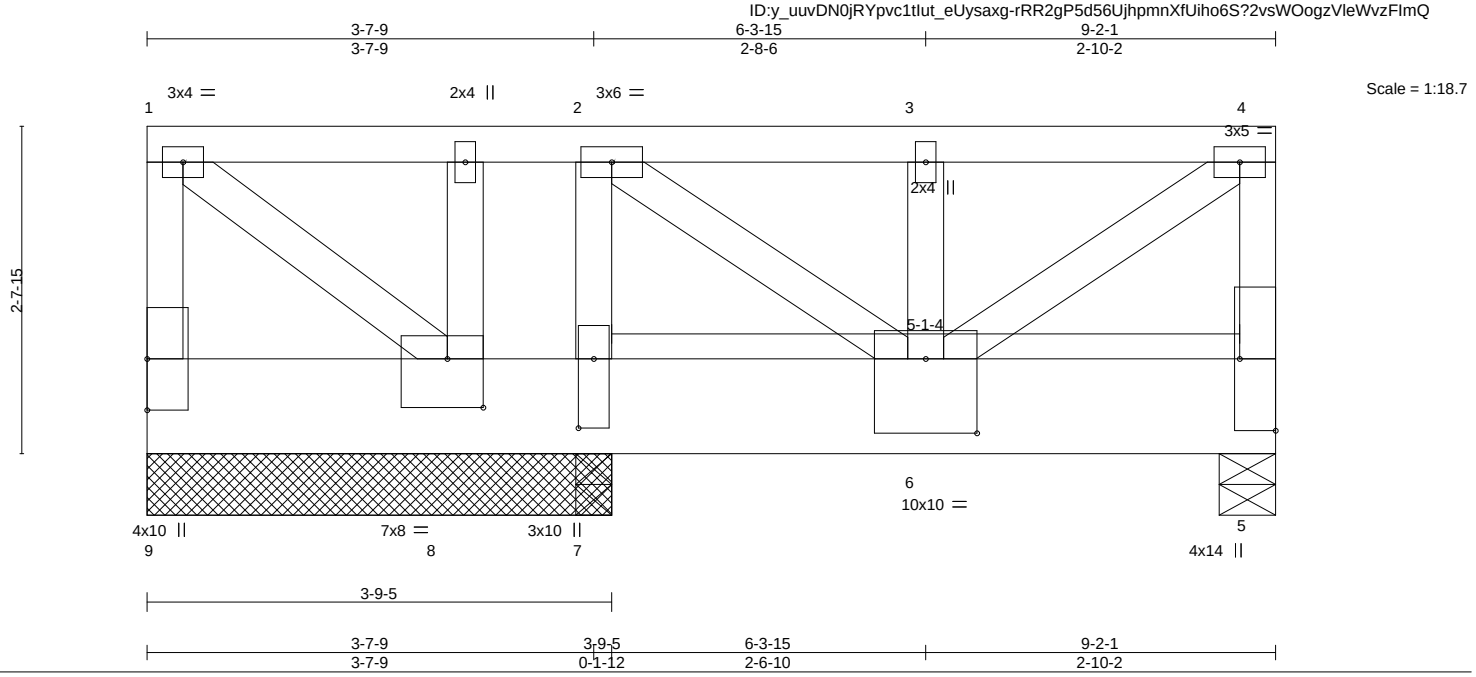

Plate Offsets (X,Y)-- [5:Edge,0-3-8], [6:0-5-0,0-7-4], [7:0-6-12,0-1-8], [8:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.02	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	6	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 74 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 5-6.

REACTIONS. All bearings 3-9-5 except (jt=length) 5=0-5-8.
(lb) - Max Horz 9=-129(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 9=-557(LC 39), 5=-368(LC 42), 7=-277(LC 39), 8=-1793(LC 64)
Max Grav All reactions 250 lb or less at joint(s) except 9=579(LC 60), 5=2671(LC 63), 7=4989(LC 64), 7=4647(LC 1), 8=509(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-9=-566/649, 1-2=-591/656, 2-3=-1358/943, 3-4=-1388/983, 4-5=-1201/901
BOT CHORD	8-9=-1263/1266, 7-8=-1320/1222, 6-7=-1320/1222
WEBS	2-7=-1477/1094, 2-6=-1431/2045, 4-6=-1344/1824, 1-8=-1027/942

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 557 lb uplift at joint 9, 368 lb uplift at joint 5, 277 lb uplift at joint 7 and 1793 lb uplift at joint 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 3-9-5 for 485.8 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 18,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T21	GABLE	1	1	I52022245
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 7-9=-20, 5-7=-915(F=-895)

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T23	Roof Special	5	1	I52022246
					Job Reference (optional)

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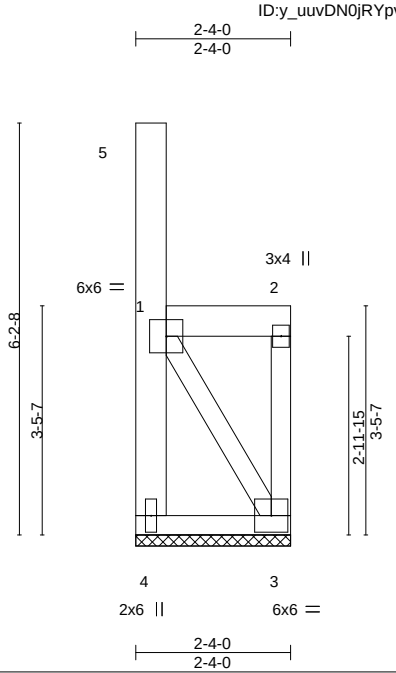

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=172(LC 14)
Max Uplift 4=-296(LC 11), 3=-296(LC 12)
Max Grav 4=353(LC 25), 3=353(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-400/875
BOT CHORD	3-4=-285/462
WEBS	1-3=-777/476

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 4 and 296 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T23A	Roof Special	2	1	I52022247
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:01 2022 Page 1
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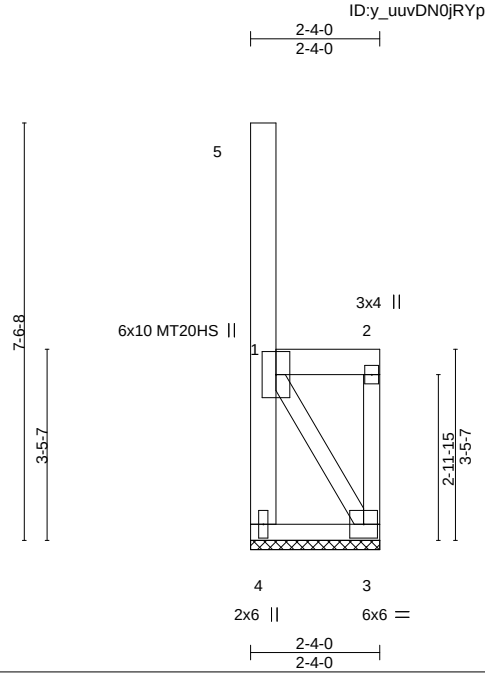

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-3 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-220(LC 11)
Max Uplift 4=-461(LC 11), 3=-461(LC 12)
Max Grav 4=503(LC 14), 3=503(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-632/1339, 2-3=-251/206
BOT CHORD 3-4=-381/656
WEBS 1-3=-1137/657

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 4 and 461 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T23B	Roof Special	2	1	I52022248
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:01 2022 Page 1
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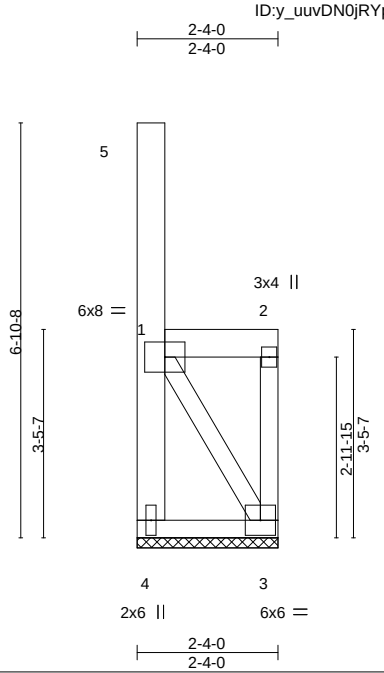

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=196(LC 12)
Max Uplift 4=-374(LC 11), 3=-374(LC 12)
Max Grav 4=416(LC 14), 3=416(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-510/1095
BOT CHORD 3-4=-331/556
WEBS 1-3=-951/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 374 lb uplift at joint 4 and 374 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T24	Roof Special	5	1	I52022249
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:02 2022 Page 1
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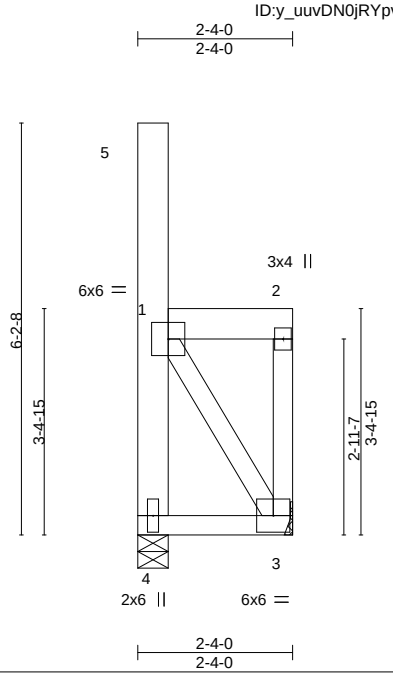

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=354(LC 25), 3=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/878
BOT CHORD 3-4=-286/467
WEBS 1-3=-779/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 4 and 297 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T24A	Roof Special	2	1	I52022250
					Job Reference (optional)

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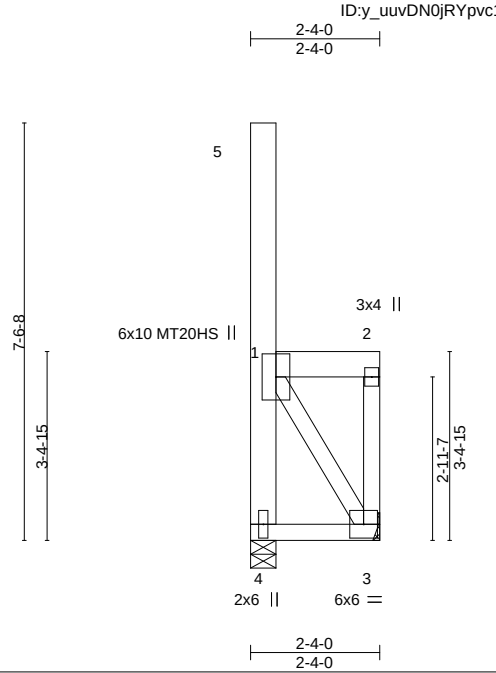

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-221(LC 11)
Max Uplift 4=-462(LC 11), 3=-462(LC 12)
Max Grav 4=504(LC 14), 3=504(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-632/1343, 2-3=-256/209
BOT CHORD 3-4=-384/663
WEBS 1-3=-1141/656

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 4 and 462 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T24B	Roof Special	2	1	I52022251
					Job Reference (optional)

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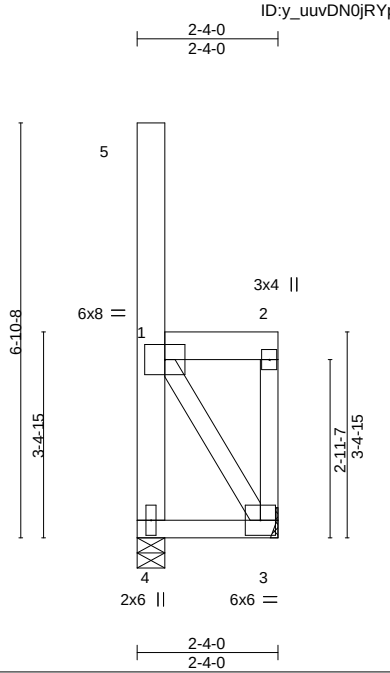

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-197(LC 11)
Max Uplift 4=-375(LC 11), 3=-375(LC 12)
Max Grav 4=417(LC 14), 3=417(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-510/1098
BOT CHORD 3-4=-334/562
WEBS 1-3=-954/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 4 and 375 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T25	Roof Special	5	1	I52022252
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:04 2022 Page 1
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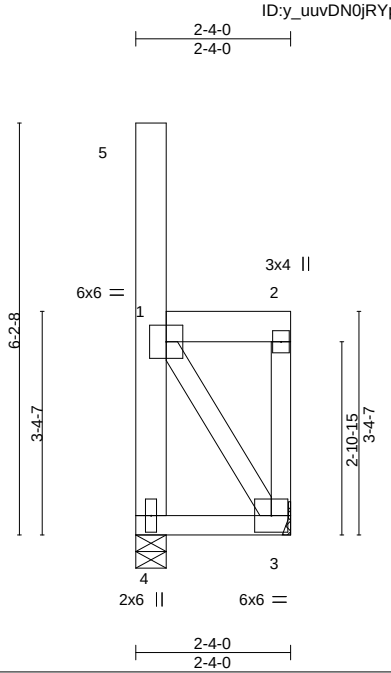

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-173(LC 11)
Max Uplift 4=-297(LC 11), 3=-297(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/882
BOT CHORD 3-4=-288/472
WEBS 1-3=-782/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 4 and 297 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T25A	Roof Special	1	1	I52022253
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:05 2022 Page 1
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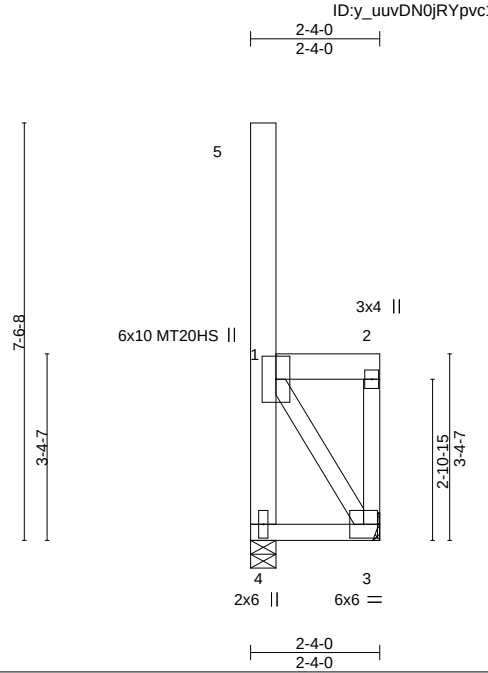

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-222(LC 11)
Max Uplift 4=-463(LC 11), 3=-463(LC 12)
Max Grav 4=505(LC 14), 3=505(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-632/1346, 2-3=-260/211
BOT CHORD 3-4=-387/670
WEBS 1-3=-1144/656

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 463 lb uplift at joint 4 and 463 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T25B	Roof Special	4	1	I52022254
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:06 2022 Page 1
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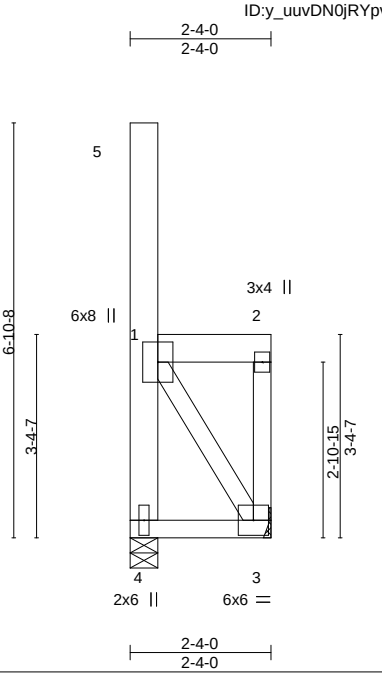

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-197(LC 11)
Max Uplift 4=-376(LC 11), 3=-376(LC 12)
Max Grav 4=418(LC 14), 3=418(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-510/1102
BOT CHORD 3-4=-336/568
WEBS 1-3=-957/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 376 lb uplift at joint 4 and 376 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T26	Roof Special	5	1	I52022255
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:06 2022 Page 1
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2-4-0

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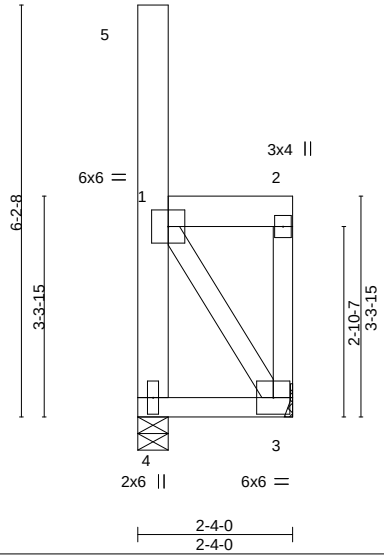

2-4-0
2-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-174(LC 11)
Max Uplift 4=-298(LC 11), 3=-298(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/885
BOT CHORD 3-4=-291/477
WEBS 1-3=-785/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 4 and 298 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 18,2022

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T26A	Roof Special	1	1	I52022256
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:07 2022 Page 1
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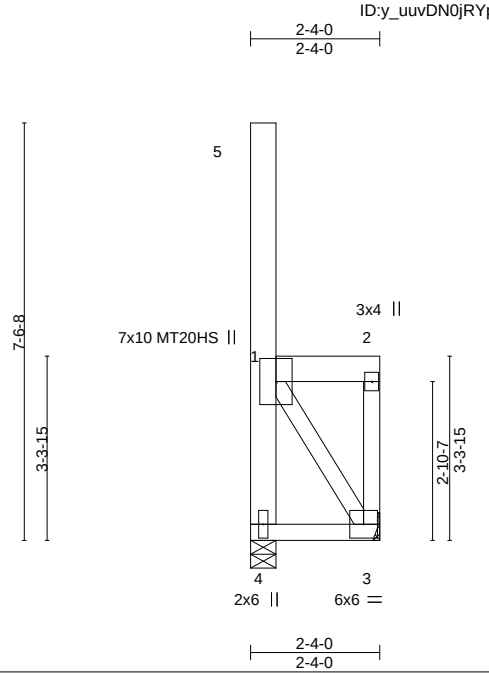

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=222(LC 12)
Max Uplift 4=-464(LC 11), 3=-464(LC 12)
Max Grav 4=506(LC 14), 3=506(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-632/1349, 2-3=-265/213
BOT CHORD 3-4=-391/677
WEBS 1-3=-1147/657

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 464 lb uplift at joint 4 and 464 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 18,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T26B	Roof Special	2	1	I52022257
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:08 2022 Page 1
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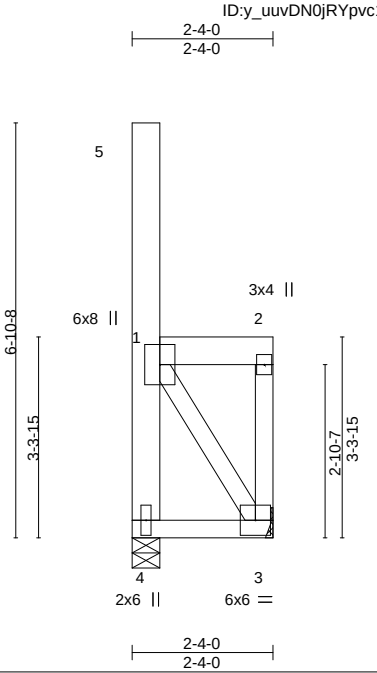

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-198(LC 11)
Max Uplift 4=-377(LC 11), 3=-377(LC 12)
Max Grav 4=418(LC 14), 3=418(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-510/1105
BOT CHORD 3-4=-339/574
WEBS 1-3=-960/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 4 and 377 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T27	Roof Special	2	1	I52022258
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:08 2022 Page 1
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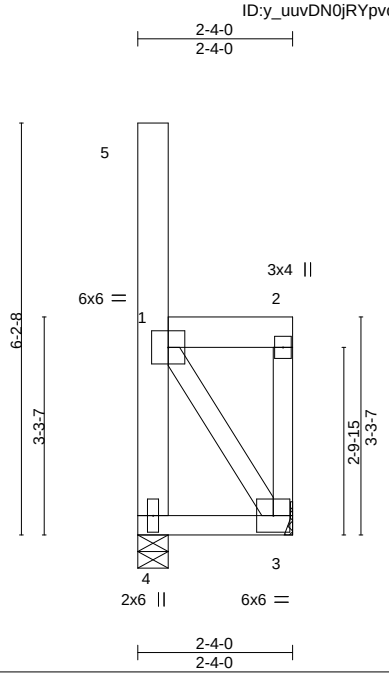

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-174(LC 11)
Max Uplift 4=-299(LC 11), 3=-299(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/888
BOT CHORD 3-4=-293/483
WEBS 1-3=-788/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 4 and 299 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T28	Roof Special	2	1	I52022259
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:09 2022 Page 1
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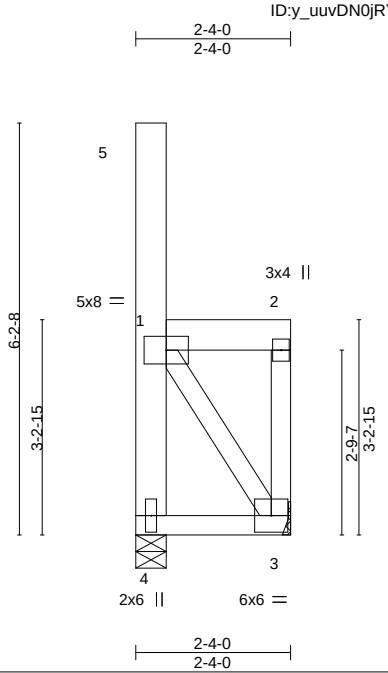

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=175(LC 12)
Max Uplift 4=-300(LC 11), 3=-300(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/891
BOT CHORD 3-4=-295/488
WEBS 1-3=-791/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 300 lb uplift at joint 4 and 300 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T29	Roof Special	2	1	I52022260
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:10 2022 Page 1
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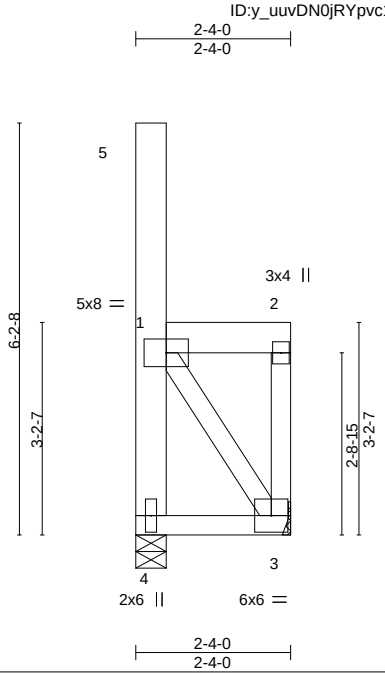

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=176(LC 12)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/894
BOT CHORD 3-4=-297/494
WEBS 1-3=-794/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 4 and 301 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T30	Roof Special	2	1	I52022261
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:14 2022 Page 1
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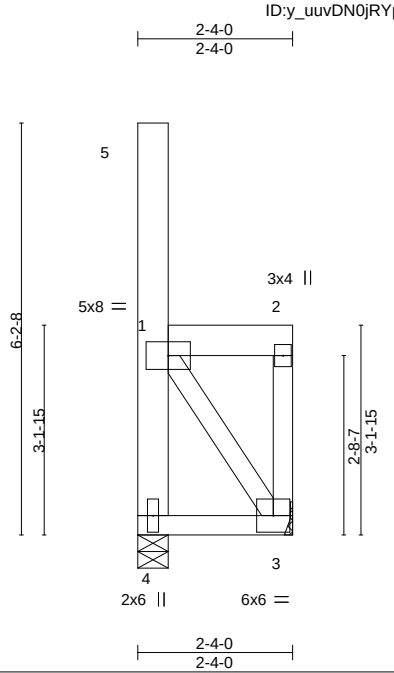

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-176(LC 11)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=358(LC 25), 3=358(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/897
BOT CHORD 3-4=-300/500
WEBS 1-3=-798/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 4 and 302 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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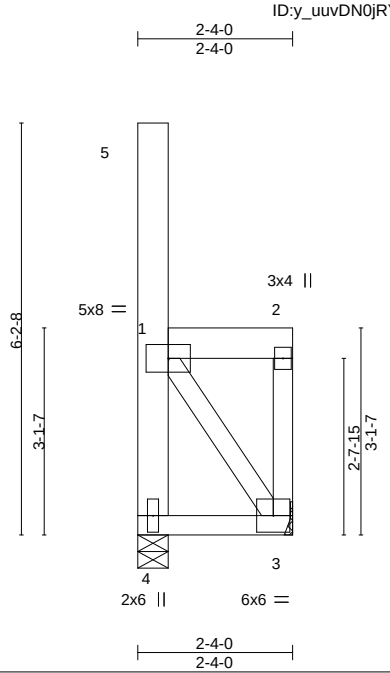
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T31	Roof Special	1	1	I52022262
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:14 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-vJrjqXH1ZjNb?7QfvJFDozE0y539XFytQKuxYXzFlmB



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-177(LC 11)
Max Uplift 4=-303(LC 11), 3=-303(LC 12)
Max Grav 4=358(LC 25), 3=358(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/901
BOT CHORD 3-4=-302/506
WEBS 1-3=-801/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 4 and 303 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T32	Roof Special	1	1	I52022263
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:15 2022 Page 1
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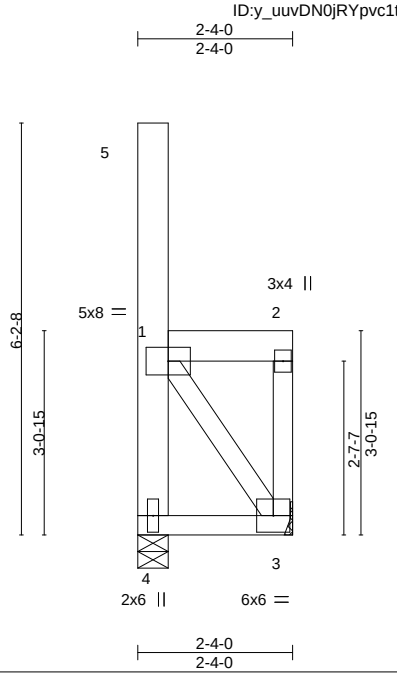

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=177(LC 12)
Max Uplift 4=-304(LC 11), 3=-304(LC 12)
Max Grav 4=359(LC 25), 3=359(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/904
BOT CHORD 3-4=-305/512
WEBS 1-3=-805/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 4 and 304 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T33	Roof Special	1	1	I52022264
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:16 2022 Page 1
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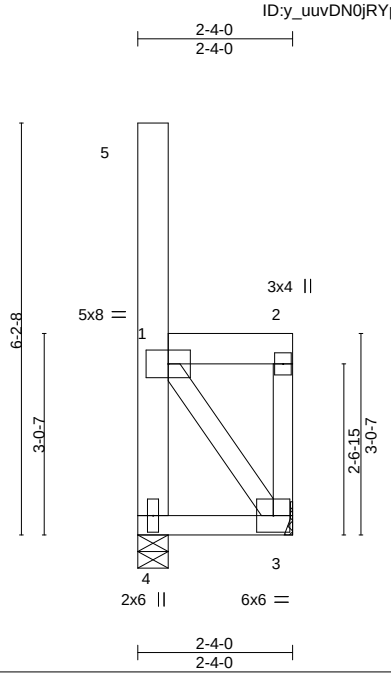

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-178(LC 11)
Max Uplift 4=-304(LC 11), 3=-304(LC 12)
Max Grav 4=360(LC 25), 3=360(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-400/906
BOT CHORD 3-4=-307/518
WEBS 1-3=-808/476

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 4 and 304 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T34	Roof Special	1	1	I52022265
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:16 2022 Page 1
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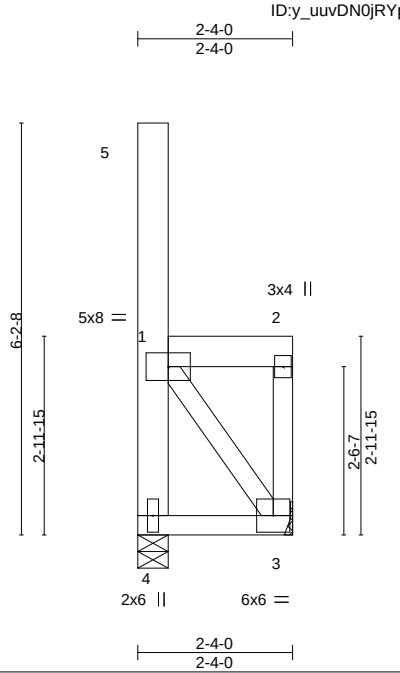

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-178(LC 11)
Max Uplift 4=-305(LC 11), 3=-305(LC 12)
Max Grav 4=360(LC 25), 3=360(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/909
BOT CHORD 3-4=-310/525
WEBS 1-3=-812/477

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 4 and 305 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T35	Roof Special	1	1	I52022266
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:17 2022 Page 1
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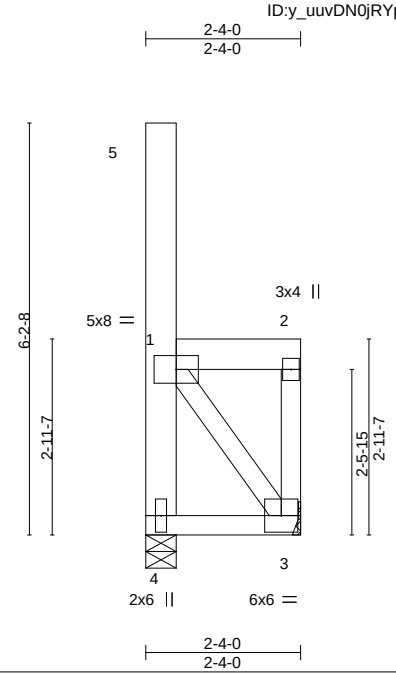

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-179(LC 11)
Max Uplift 4=-306(LC 11), 3=-306(LC 12)
Max Grav 4=361(LC 25), 3=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/912
BOT CHORD 3-4=-313/531
WEBS 1-3=-816/477

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 4 and 306 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T36	Roof Special	1	1	I52022267
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:18 2022 Page 1
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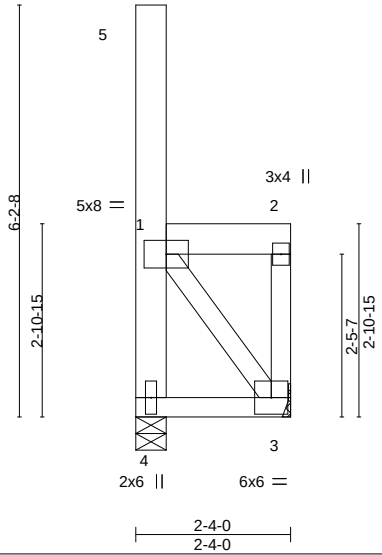

2-4-0
2-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=180(LC 12)
Max Uplift 4=-307(LC 11), 3=-307(LC 12)
Max Grav 4=361(LC 25), 3=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/915
BOT CHORD 3-4=-316/538
WEBS 1-3=-820/478

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 4 and 307 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 18,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T37	Roof Special	1	1	I52022268
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:19 2022 Page 1
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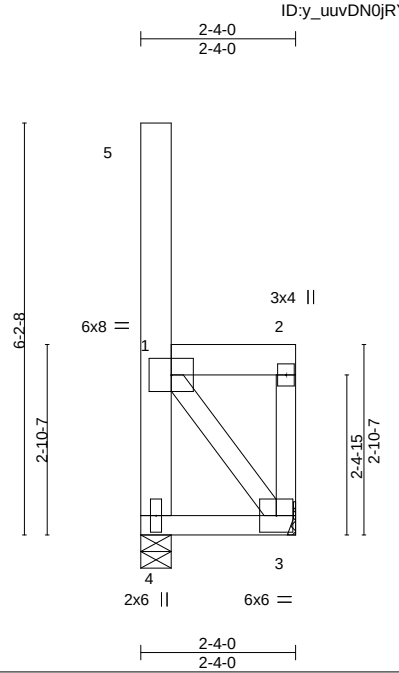

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-180(LC 11)
Max Uplift 4=-307(LC 11), 3=-307(LC 12)
Max Grav 4=362(LC 25), 3=362(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/918
BOT CHORD 3-4=-319/545
WEBS 1-3=-824/479

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 4 and 307 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T38	Roof Special	1	1	I52022269
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:19 2022 Page 1
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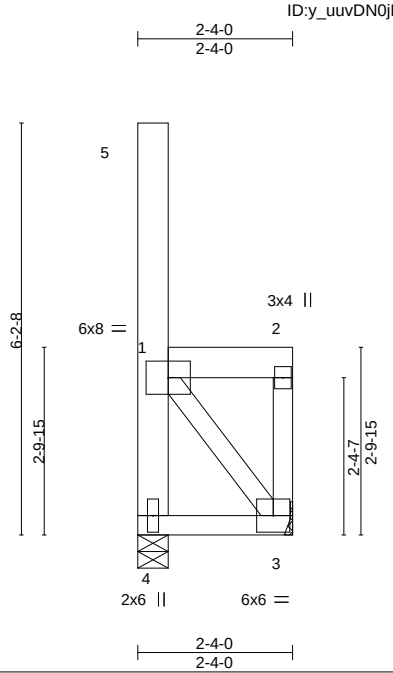

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-181(LC 11)
Max Uplift 4=-308(LC 11), 3=-308(LC 12)
Max Grav 4=363(LC 25), 3=363(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/920
BOT CHORD 3-4=-322/553
WEBS 1-3=-828/480

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 4 and 308 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T39	Roof Special	1	1	I52022270
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:20 2022 Page 1
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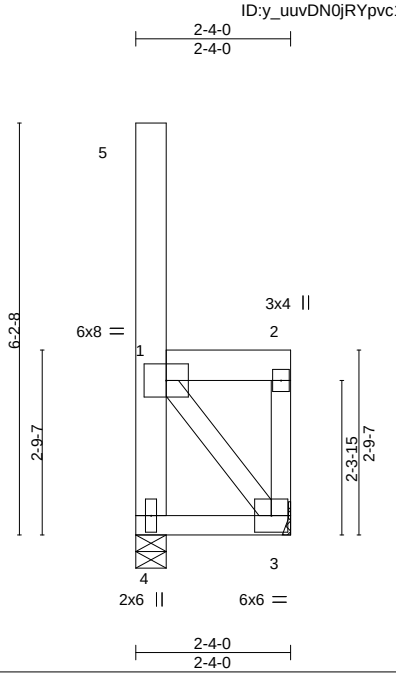

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-181(LC 13)
Max Uplift 4=-309(LC 11), 3=-309(LC 12)
Max Grav 4=363(LC 25), 3=363(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/923
BOT CHORD 3-4=-326/560
WEBS 1-3=-833/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 4 and 309 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T40	Roof Special	1	1	I52022271
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:22 2022 Page 1
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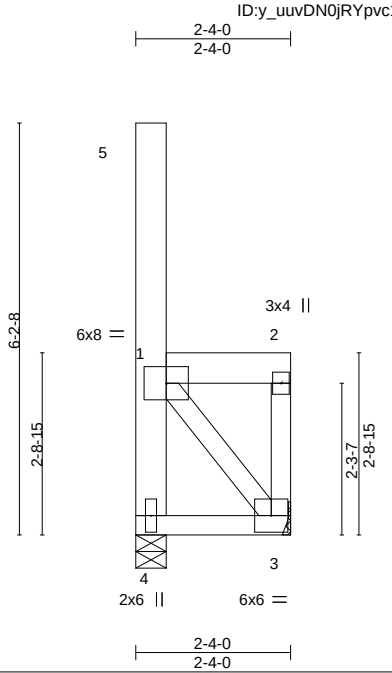

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-310(LC 11), 3=-310(LC 12)
Max Grav 4=364(LC 25), 3=364(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/926
BOT CHORD 3-4=-329/568
WEBS 1-3=-838/482

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=310, 3=310.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T41	Roof Special	1	1	I52022272
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:23 2022 Page 1
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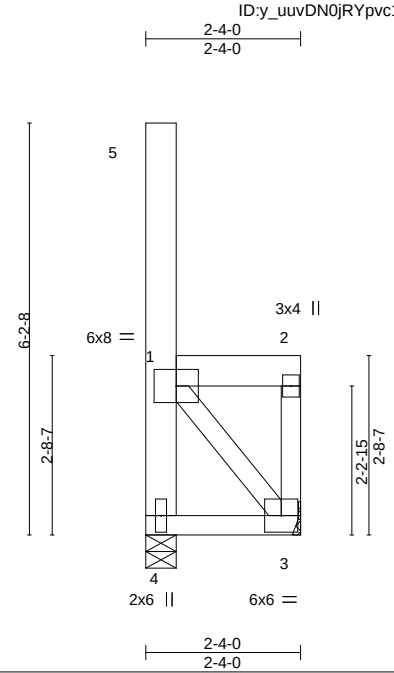

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=183(LC 14)
Max Uplift 4=-310(LC 11), 3=-310(LC 12)
Max Grav 4=364(LC 25), 3=364(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/928
BOT CHORD 3-4=-333/577
WEBS 1-3=-843/483

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=310, 3=310.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T42	Roof Special	1	1	I52022273
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:24 2022 Page 1
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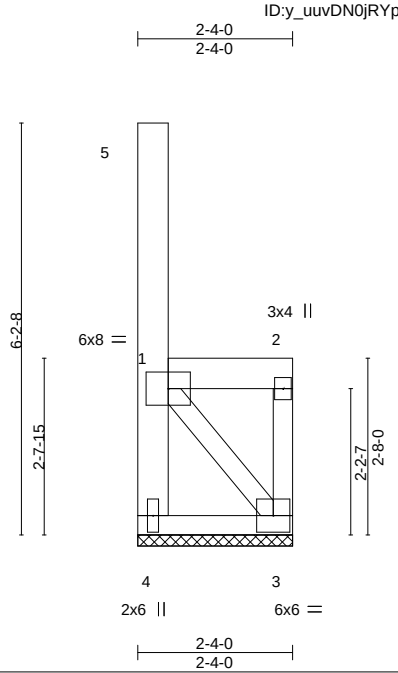

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-183(LC 11)
Max Uplift 4=-311(LC 11), 3=-311(LC 12)
Max Grav 4=365(LC 25), 3=365(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/931
BOT CHORD 3-4=-337/585
WEBS 1-3=-848/485

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=311, 3=311.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T43	Roof Special	1	1	I52022274
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:24 2022 Page 1
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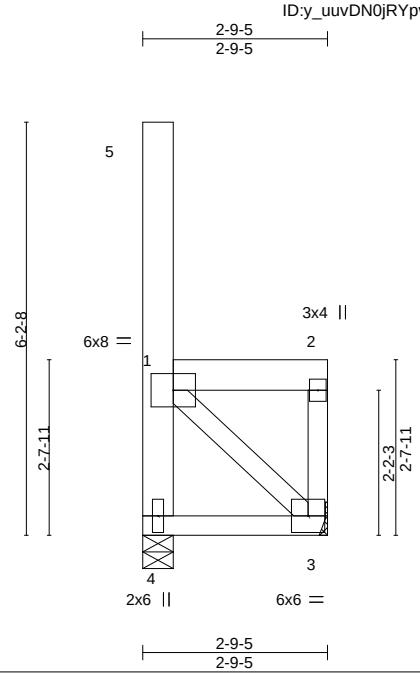

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-184(LC 11)
Max Uplift 4=-252(LC 11), 3=-252(LC 12)
Max Grav 4=350(LC 25), 3=350(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-326/787
BOT CHORD 3-4=-352/603
WEBS 1-3=-783/454

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=252, 3=252.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T44	Roof Special	1	1	I52022275
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:25 2022 Page 1
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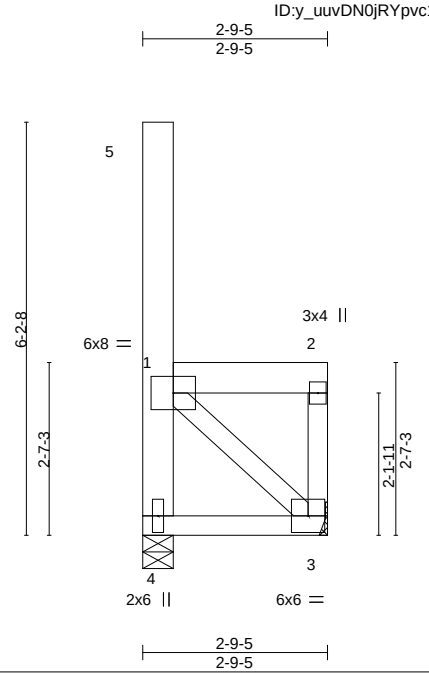

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-15 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-184(LC 13)
Max Uplift 4=-253(LC 11), 3=-253(LC 12)
Max Grav 4=351(LC 25), 3=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-330/789
BOT CHORD 3-4=-356/613
WEBS 1-3=-790/457

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=253, 3=253.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T45	Roof Special	1	1	I52022276
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:26 2022 Page 1
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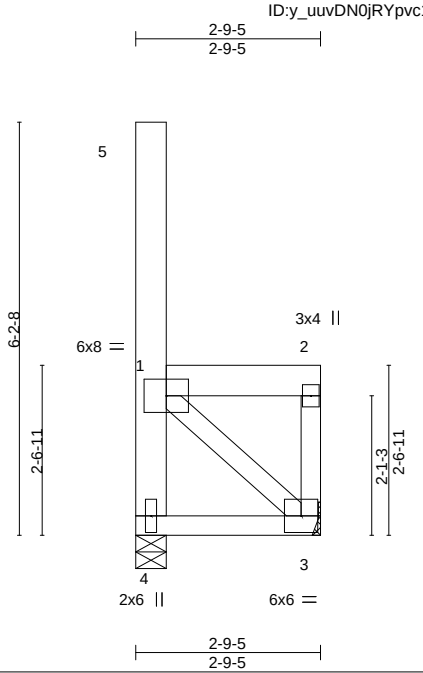

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-253(LC 11), 3=-253(LC 12)
Max Grav 4=351(LC 25), 3=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-334/791
BOT CHORD 3-4=-361/622
WEBS 1-3=-797/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=253, 3=253.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T46	Roof Special	1	1	I52022277
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:26 2022 Page 1
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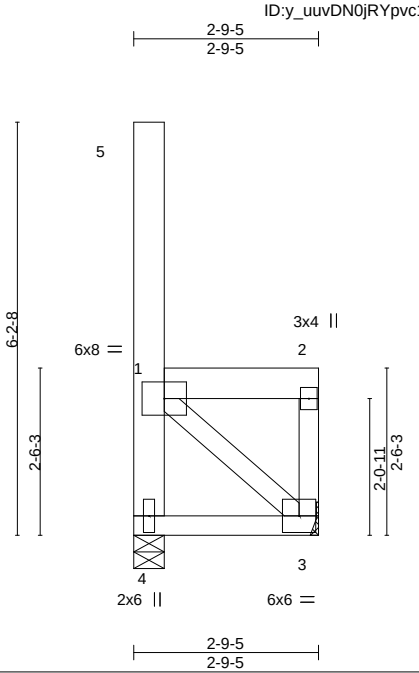

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-254(LC 11), 3=-254(LC 12)
Max Grav 4=352(LC 25), 3=352(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-337/792
BOT CHORD 3-4=-366/633
WEBS 1-3=-805/463

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=254, 3=254.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T47	Roof Special	1	1	I52022278
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:27 2022 Page 1
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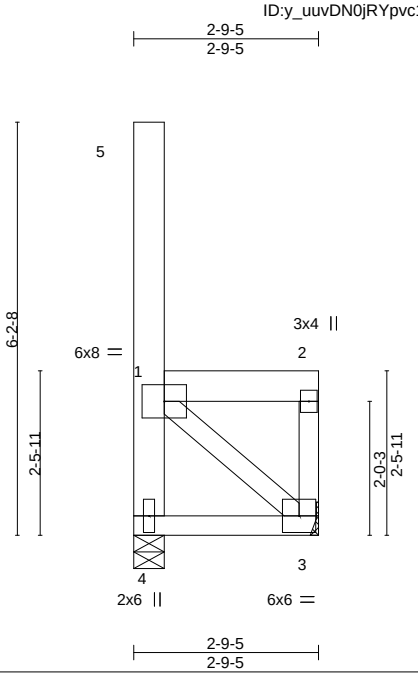

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 11)
Max Uplift 4=-254(LC 11), 3=-254(LC 12)
Max Grav 4=352(LC 25), 3=352(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-341/794
BOT CHORD 3-4=-371/644
WEBS 1-3=-813/466

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=254, 3=254.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T48	Roof Special	1	1	I52022279
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:28 2022 Page 1
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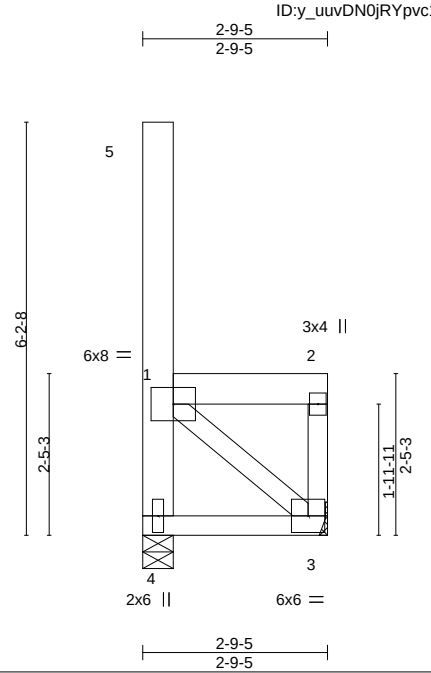

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-187(LC 11)
Max Uplift 4=-255(LC 11), 3=-255(LC 12)
Max Grav 4=352(LC 25), 3=352(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-344/796
BOT CHORD 3-4=-376/655
WEBS 1-3=-822/470

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=255, 3=255.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T49	Roof Special	1	1	I52022280
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:29 2022 Page 1
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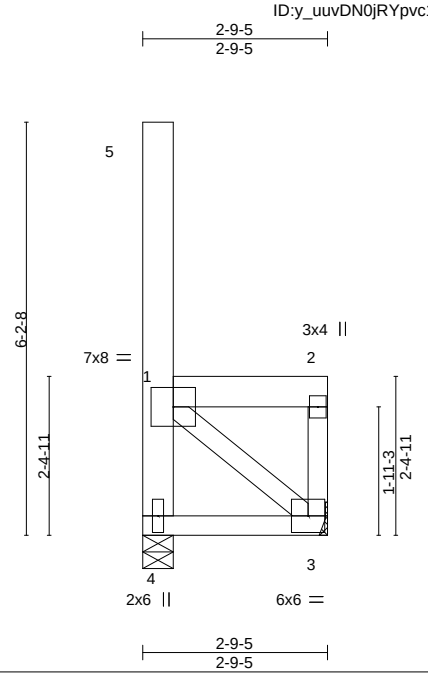

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-187(LC 11)
Max Uplift 4=-256(LC 11), 3=-256(LC 12)
Max Grav 4=353(LC 25), 3=353(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-348/798
BOT CHORD 3-4=-382/666
WEBS 1-3=-831/474

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=256, 3=256.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T50	Roof Special	1	1	I52022281
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:32 2022 Page 1
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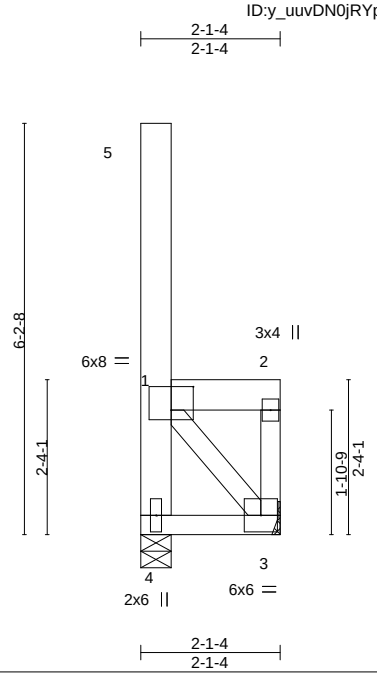

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=188(LC 12)
Max Uplift 4=-359(LC 11), 3=-359(LC 12)
Max Grav 4=396(LC 14), 3=396(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-471/1059
BOT CHORD 3-4=-364/652
WEBS 1-3=-943/524

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=359, 3=359.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T51	Roof Special	1	1	I52022282
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:32 2022 Page 1
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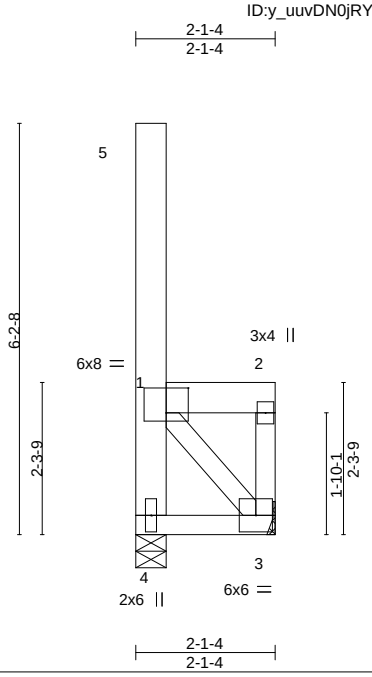

Plate Offsets (X,Y)-- [1:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=188(LC 12)
Max Uplift 4=-360(LC 11), 3=-360(LC 12)
Max Grav 4=396(LC 14), 3=396(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-471/1061
BOT CHORD 3-4=-370/664
WEBS 1-3=-951/526

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=360, 3=360.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T52	Roof Special	1	1	I52022283
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:33 2022 Page 1
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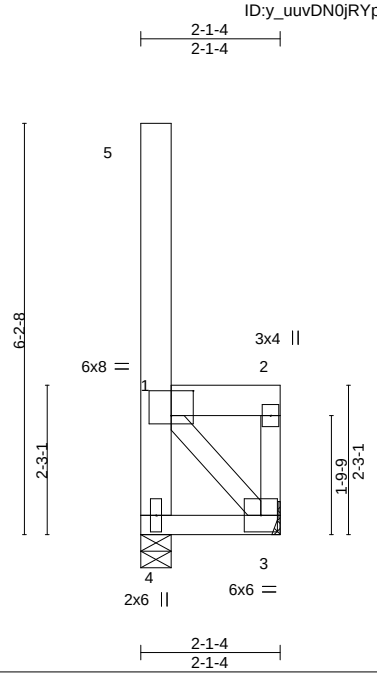

Plate Offsets (X,Y)-- [1:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=189(LC 14)
Max Uplift 4=-360(LC 11), 3=-360(LC 12)
Max Grav 4=397(LC 14), 3=397(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-471/1064
BOT CHORD 3-4=-376/676
WEBS 1-3=-958/529

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=360, 3=360.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T53	Roof Special	1	1	I52022284
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:34 2022 Page 1
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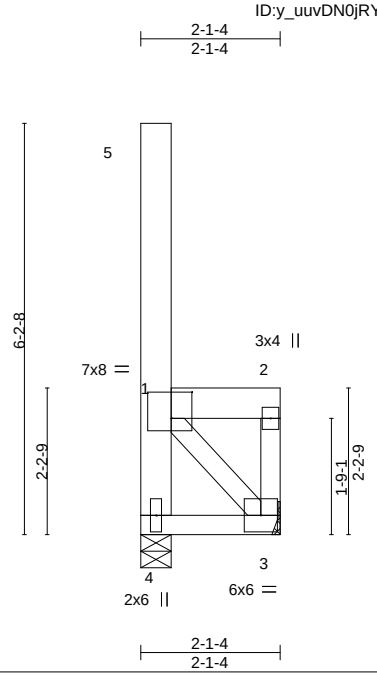

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-190(LC 11)
Max Uplift 4=-361(LC 11), 3=-361(LC 12)
Max Grav 4=398(LC 14), 3=398(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-472/1066
BOT CHORD 3-4=-382/689
WEBS 1-3=-967/532

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=361, 3=361.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T54	Roof Special	1	1	I52022285
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:34 2022 Page 1
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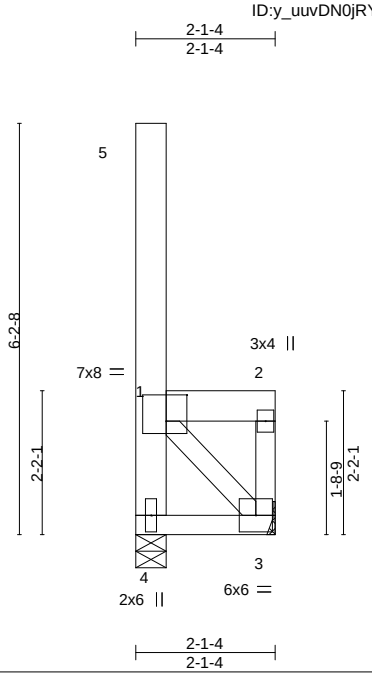

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-190(LC 11)
Max Uplift 4=-362(LC 11), 3=-362(LC 12)
Max Grav 4=398(LC 14), 3=398(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-474/1068, 2-3=-252/199
BOT CHORD 3-4=-388/702
WEBS 1-3=-975/535

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=362, 3=362.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T55	Roof Special	1	1	I52022286
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:35 2022 Page 1
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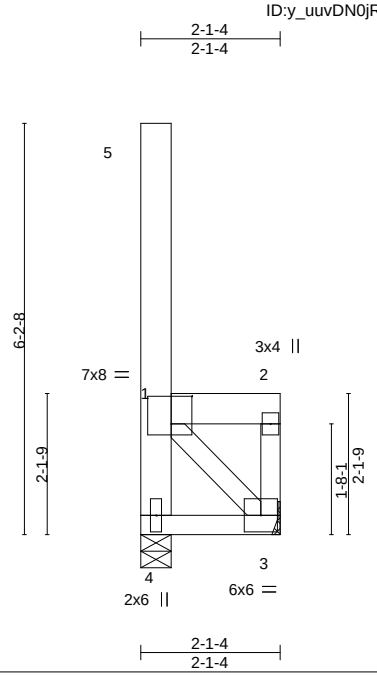

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-191(LC 11)
Max Uplift 4=-362(LC 11), 3=-362(LC 12)
Max Grav 4=399(LC 14), 3=399(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-478/1070, 2-3=-256/201
BOT CHORD 3-4=-395/717
WEBS 1-3=-985/539

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=362, 3=362.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T56	Roof Special	1	1	I52022287
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:36 2022 Page 1
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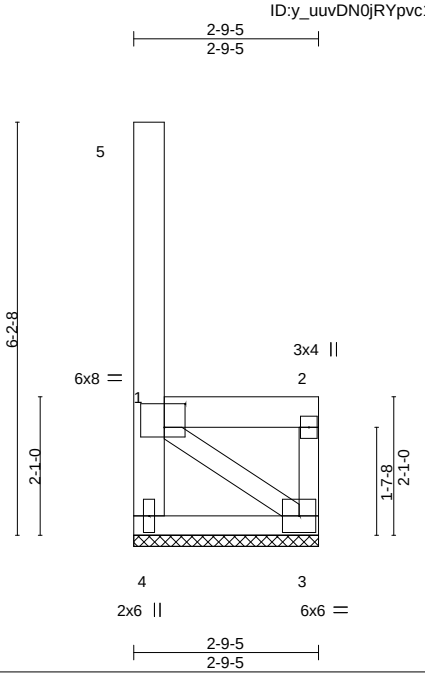

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 29 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-14 oc bracing.

REACTIONS. (size) 4=2-9-5, 3=2-9-5
Max Horz 4=-191(LC 11)
Max Uplift 4=-259(LC 11), 3=-259(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-371/810
BOT CHORD 3-4=-434/770
WEBS 1-3=-914/512

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=259, 3=259.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T57	Roof Special	1	1	I52022288
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:36 2022 Page 1
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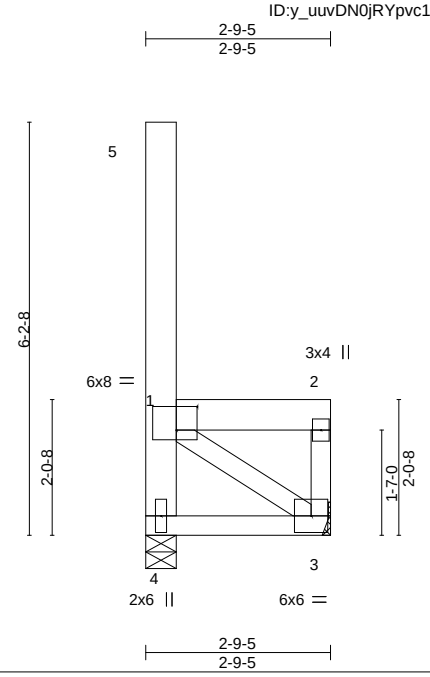

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=192(LC 12)
Max Uplift 4=-259(LC 11), 3=-259(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-374/812
BOT CHORD 3-4=-442/787
WEBS 1-3=-928/519

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=259, 3=259.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
May 18,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T58	Roof Special	1	1	I52022289
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:37 2022 Page 1
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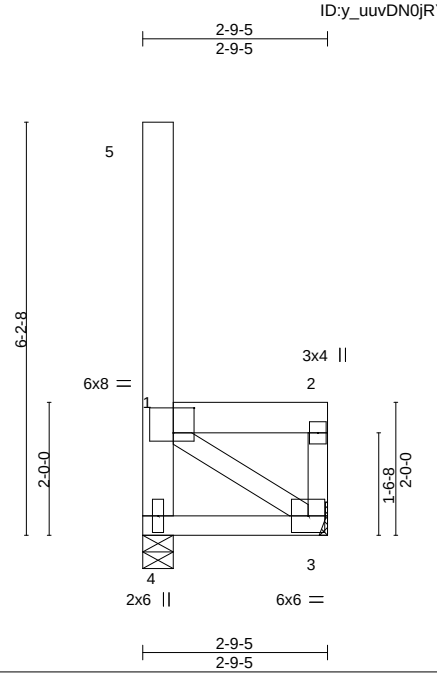

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-193(LC 11)
Max Uplift 4=-260(LC 11), 3=-260(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-377/813
BOT CHORD 3-4=-452/805
WEBS 1-3=-943/527

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=260, 3=260.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T59	Roof Special	1	1	I52022290
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:38 2022 Page 1
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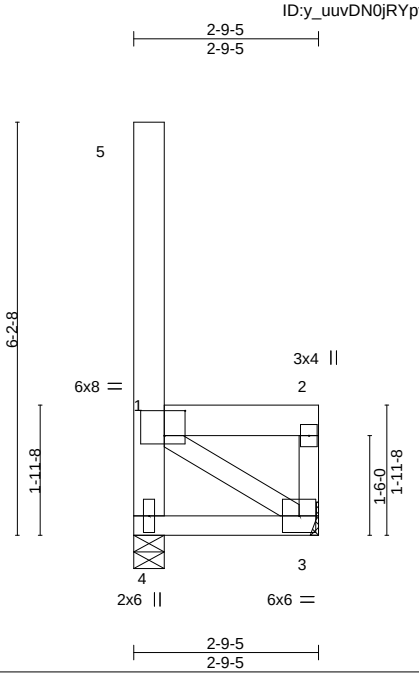

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=193(LC 14)
Max Uplift 4=-260(LC 11), 3=-260(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-379/815
BOT CHORD 3-4=-461/824
WEBS 1-3=-959/534

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=260, 3=260.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T60	Roof Special	1	1	I52022291
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:42 2022 Page 1
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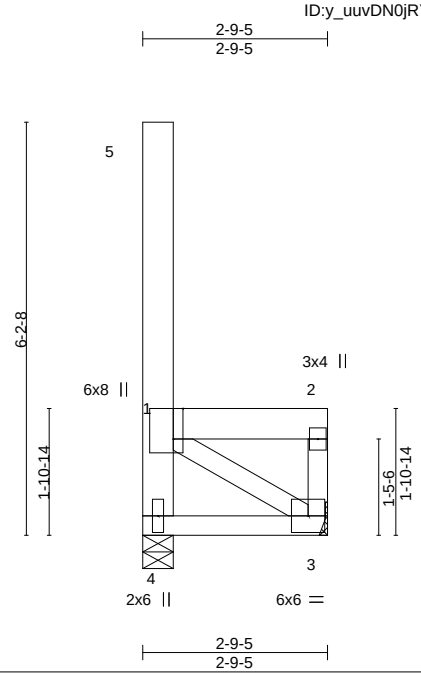

Plate Offsets (X,Y)-- [1:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=194(LC 12)
Max Uplift 4=-261(LC 11), 3=-261(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-383/816
BOT CHORD 3-4=-474/849
WEBS 1-3=-980/545

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 4 and 261 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T61	Roof Special	1	1	I52022292
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:42 2022 Page 1
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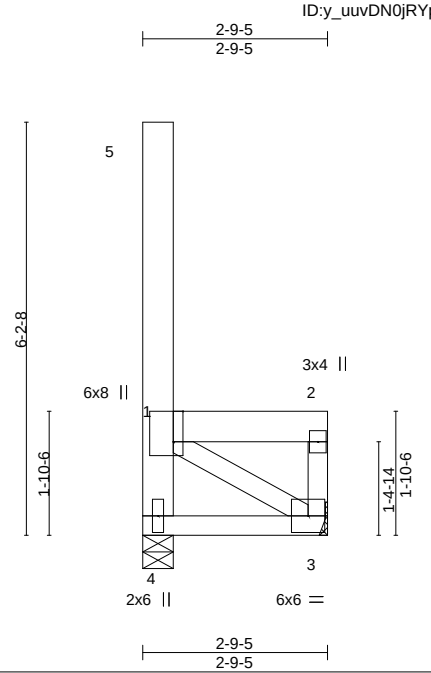

Plate Offsets (X,Y)-- [1:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=195(LC 14)
Max Uplift 4=-261(LC 11), 3=-261(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-385/818
BOT CHORD 3-4=-484/870
WEBS 1-3=-998/554

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 4 and 261 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T62	Roof Special	1	1	I52022293
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:43 2022 Page 1
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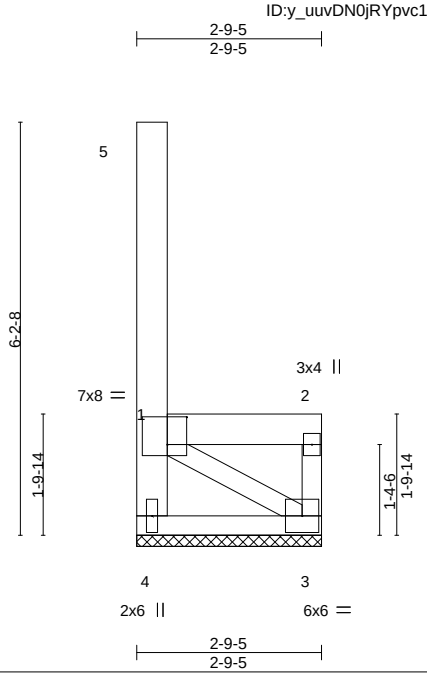

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-0 oc bracing.

REACTIONS. (size) 4=2-9-5, 3=2-9-5
Max Horz 4=-195(LC 11)
Max Uplift 4=-261(LC 11), 3=-261(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-388/819
BOT CHORD 3-4=-496/892
WEBS 1-3=-1017/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 4 and 261 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T63	Roof Special	1	1	I52022294
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:44 2022 Page 1
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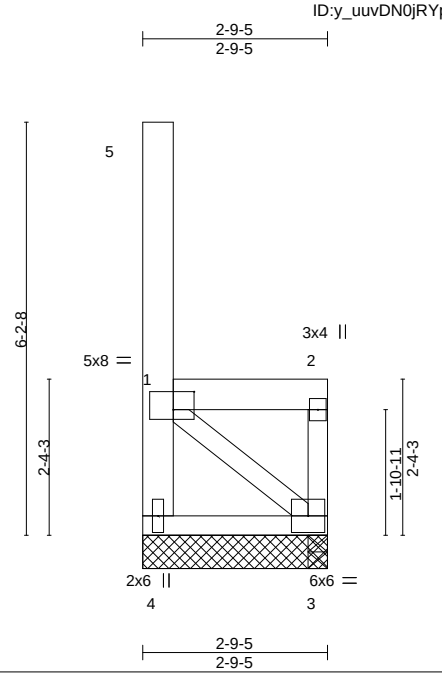

Plate Offsets (X,Y)-- [1:0-3-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.

REACTIONS. (size) 4=2-9-5, 3=2-9-5, 3=2-9-5
Max Horz 4=-188(LC 11)
Max Uplift 4=-256(LC 11), 3=-256(LC 12)
Max Grav 4=353(LC 25), 3=353(LC 24), 3=204(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-351/800
BOT CHORD 3-4=-388/679
WEBS 1-3=-841/478

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 4 and 256 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T64	Roof Special	1	1	I52022295
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:45 2022 Page 1
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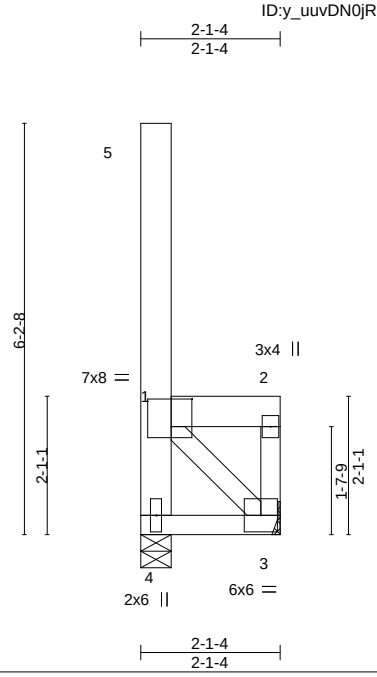

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-191(LC 13)
Max Uplift 4=-363(LC 11), 3=-363(LC 12)
Max Grav 4=399(LC 14), 3=399(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-482/1073, 2-3=-259/203
BOT CHORD 3-4=-402/731
WEBS 1-3=-994/543

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 4 and 363 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T65	Roof Special	2	1	I52022296
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:45 2022 Page 1
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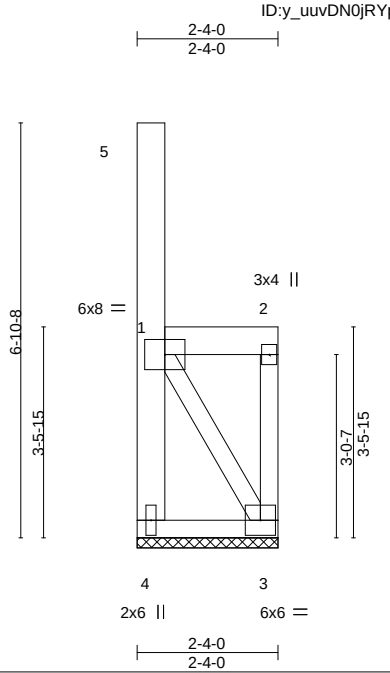

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-196(LC 11)
Max Uplift 4=-373(LC 11), 3=-373(LC 12)
Max Grav 4=415(LC 14), 3=415(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-509/1092
BOT CHORD	3-4=-329/550
WEBS	1-3=-948/564

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 373 lb uplift at joint 4 and 373 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T66	Roof Special	2	1	I52022297
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:46 2022 Page 1
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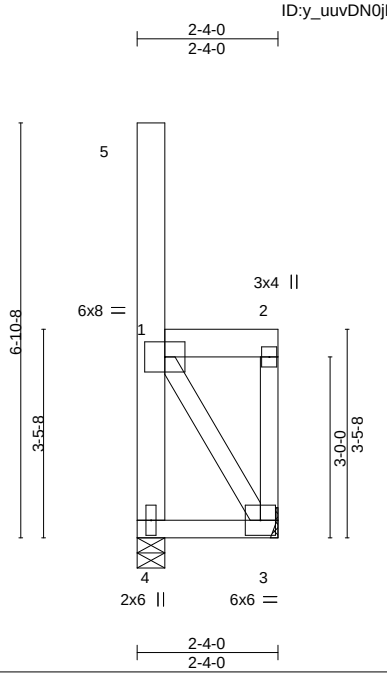

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-196(LC 11)
Max Uplift 4=-374(LC 11), 3=-374(LC 12)
Max Grav 4=416(LC 14), 3=416(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-509/1095
BOT CHORD 3-4=-331/555
WEBS 1-3=-951/563

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 374 lb uplift at joint 4 and 374 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T67	Roof Special	2	1	I52022298
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:47 2022 Page 1
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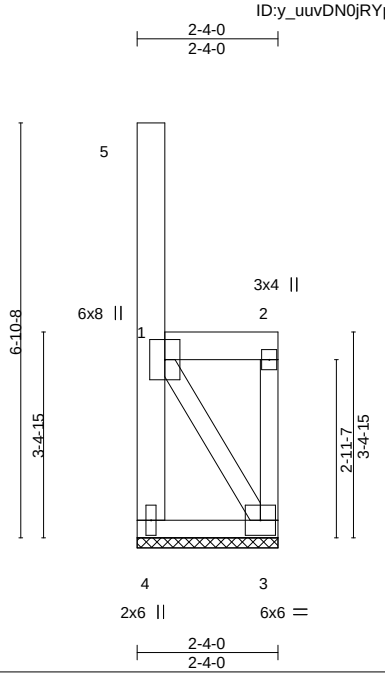

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-12 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=197(LC 12)
Max Uplift 4=-375(LC 11), 3=-375(LC 12)
Max Grav 4=417(LC 14), 3=417(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-592/1115
BOT CHORD 3-4=-377/582
WEBS 1-3=-973/644

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 4 and 375 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T68	Roof Special	1	1	I52022299
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:47 2022 Page 1
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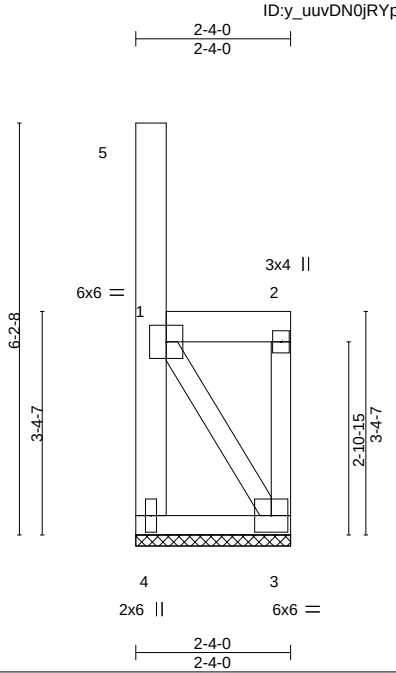

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-173(LC 11)
Max Uplift 4=-298(LC 11), 3=-298(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-466/898
BOT CHORD	3-4=-326/493
WEBS	1-3=-801/543

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 4 and 298 lb uplift at joint 3.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T69	Roof Special	2	1	I52022300
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:48 2022 Page 1
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2-4-0

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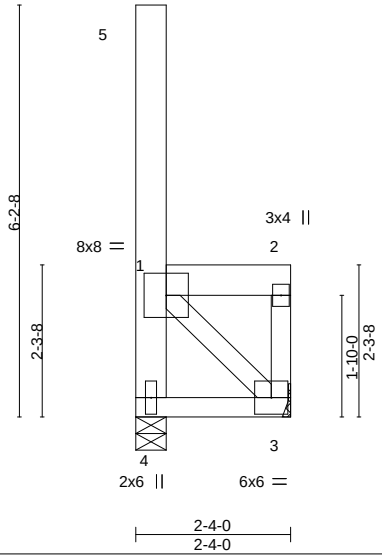

2-4-0
2-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-188(LC 11)
Max Uplift 4=-317(LC 11), 3=-317(LC 12)
Max Grav 4=369(LC 25), 3=369(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-416/951
BOT CHORD 3-4=-380/678
WEBS 1-3=-909/506

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 4 and 317 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T70	Roof Special	2	1	I52022301
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:50 2022 Page 1
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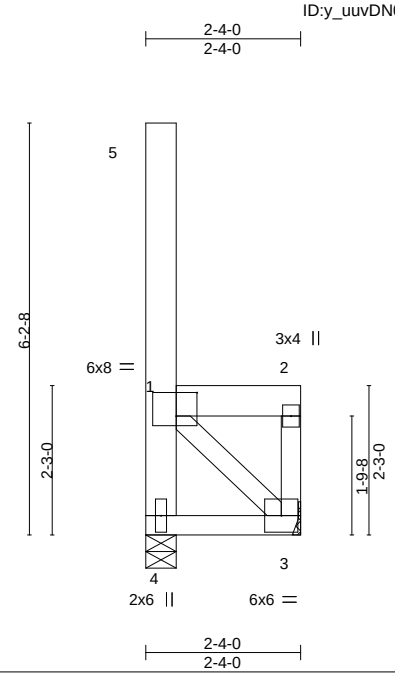

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-189(LC 13)
Max Uplift 4=-317(LC 11), 3=-317(LC 12)
Max Grav 4=369(LC 25), 3=369(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-420/953
BOT CHORD 3-4=-386/690
WEBS 1-3=-918/510

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=317, 3=317.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T71	Roof Special	2	1	I52022302
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:51 2022 Page 1
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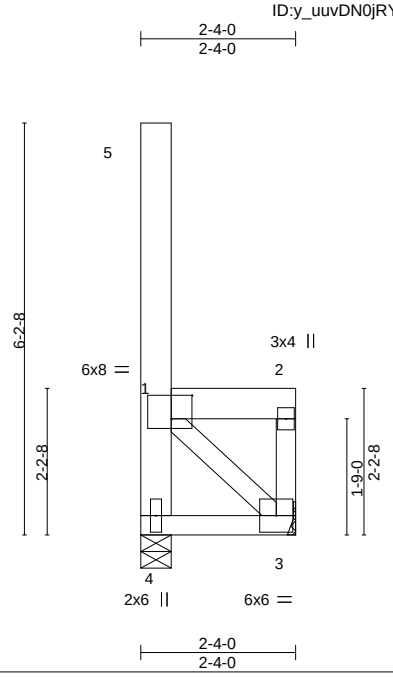

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-190(LC 11)
Max Uplift 4=-318(LC 11), 3=-318(LC 12)
Max Grav 4=370(LC 25), 3=370(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-423/955
BOT CHORD 3-4=-392/704
WEBS 1-3=-927/514

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=318, 3=318.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T72	Roof Special	2	1	I52022303
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:52 2022 Page 1
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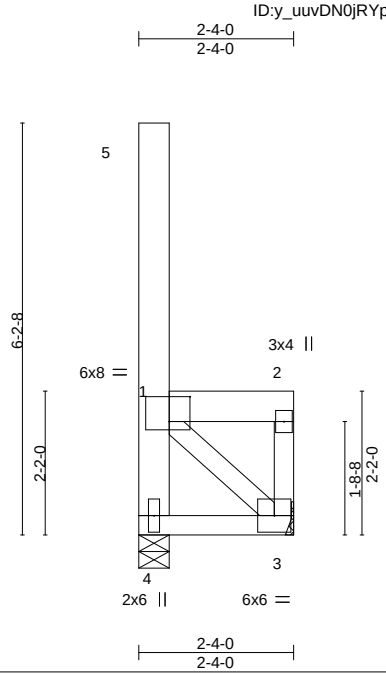

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-190(LC 11)
Max Uplift 4=-318(LC 11), 3=-318(LC 12)
Max Grav 4=370(LC 25), 3=370(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-427/957
BOT CHORD 3-4=-399/718
WEBS 1-3=-937/518

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=318, 3=318.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T73	Roof Special	2	1	I52022304
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:52 2022 Page 1
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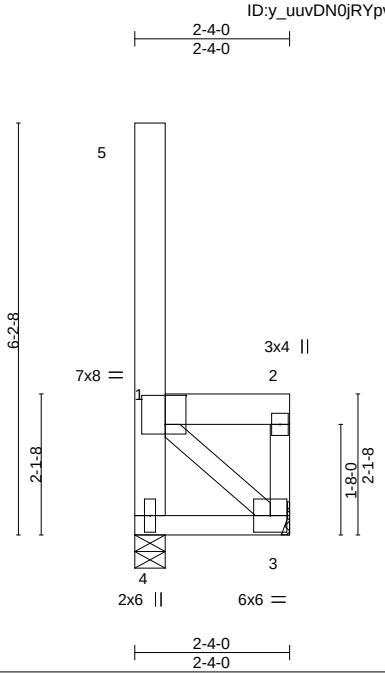

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-191(LC 13)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=899(LC 25), 3=899(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-880/959, 2-3=-748/197
BOT CHORD 3-4=-390/702
WEBS 1-3=-907/501

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-870, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-660, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-630, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-630, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-830, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-830, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-651, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-651, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-651, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-651, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-870, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T74	Roof Special	2	1	I52022305
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:53 2022 Page 1
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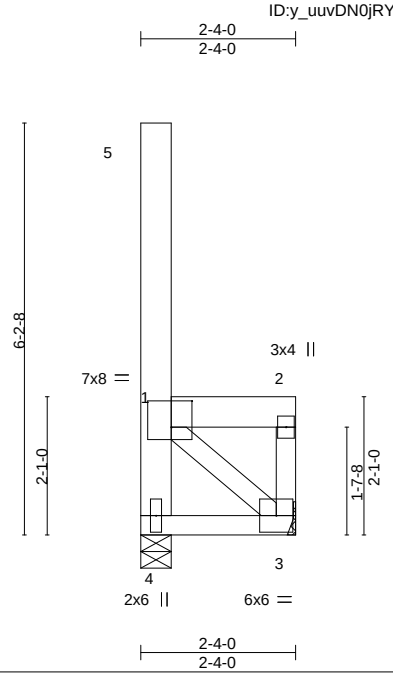

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-2-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=191(LC 14)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=371(LC 25), 3=371(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-435/961
BOT CHORD	3-4=-414/748
WEBS	1-3=-960/528

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T74A	Roof Special	2	1	I52022306
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:54 2022 Page 1
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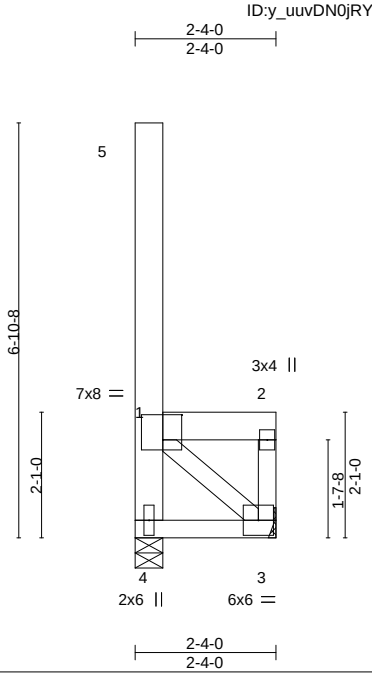

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-216(LC 11)
Max Uplift 4=-398(LC 11), 3=-398(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-545/1182, 2-3=-256/210
BOT CHORD 3-4=-511/940
WEBS 1-3=-1213/656

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=398, 3=398.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T75	Roof Special	2	1	I52022307
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:55 2022 Page 1
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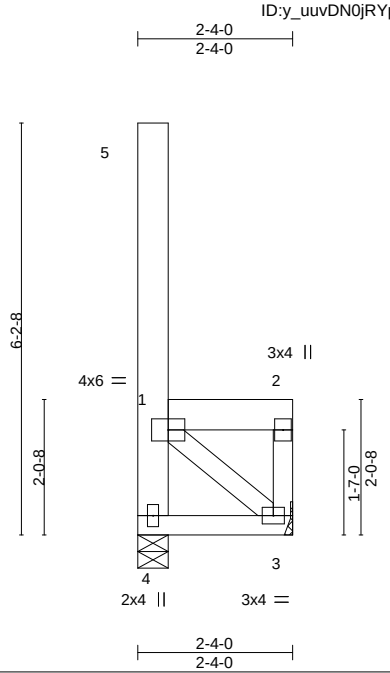

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-36(LC 11)
Max Uplift 4=-11(LC 11), 3=-11(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T76	Roof Special	1	1	I52022308
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:55 2022 Page 1
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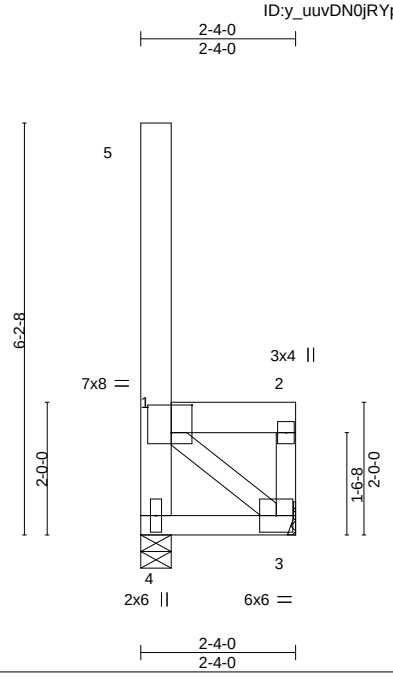

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-193(LC 11)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=372(LC 25), 3=372(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-442/965
BOT CHORD 3-4=-430/782
WEBS 1-3=-985/539

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=320, 3=320.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T77	Roof Special	1	1	I52022309
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:56 2022 Page 1
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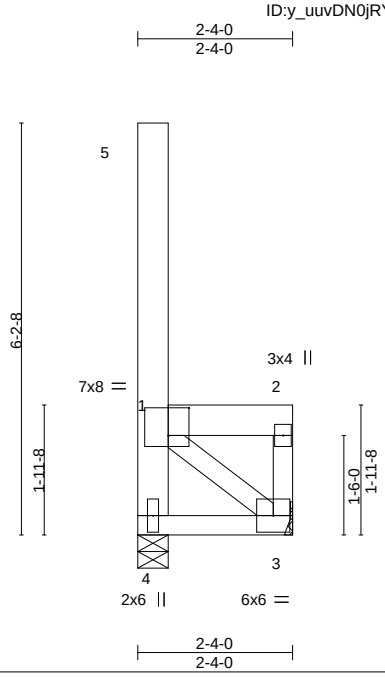

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-193(LC 11)
Max Uplift 4=-321(LC 11), 3=-321(LC 12)
Max Grav 4=372(LC 25), 3=372(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-445/967
BOT CHORD 3-4=-439/800
WEBS 1-3=-998/545

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=321, 3=321.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T78	Roof Special	1	1	I52022310
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:57 2022 Page 1
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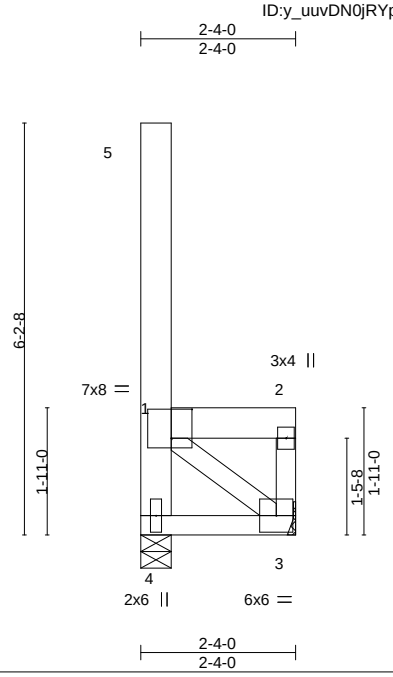

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=194(LC 12)
Max Uplift 4=-321(LC 11), 3=-321(LC 12)
Max Grav 4=373(LC 25), 3=373(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-448/968
BOT CHORD 3-4=-448/819
WEBS 1-3=-1013/552

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=321, 3=321.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T79	Roof Special	1	1	I52022311
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:47:57 2022 Page 1
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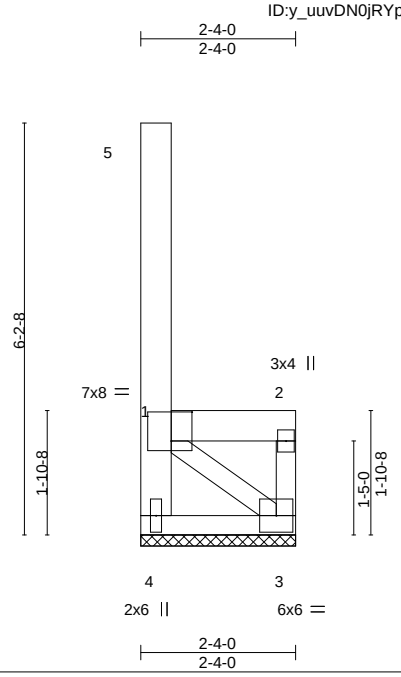

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 26 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=194(LC 12)
Max Uplift 4=-322(LC 11), 3=-322(LC 12)
Max Grav 4=373(LC 25), 3=373(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-451/970
BOT CHORD 3-4=-458/839
WEBS 1-3=-1028/560

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=322, 3=322.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T80	Roof Special	1	1	I52022312
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:01 2022 Page 1
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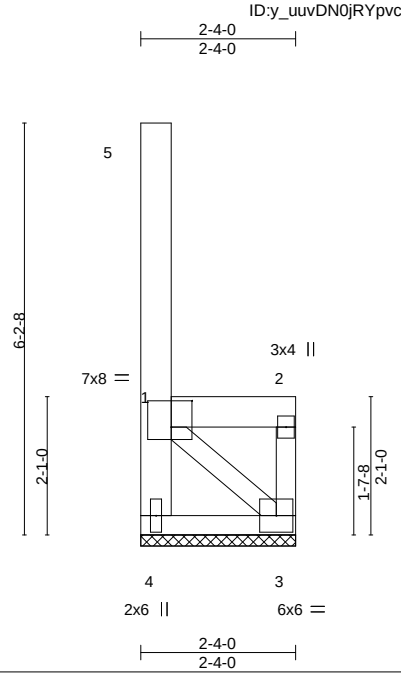

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=191(LC 14)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=371(LC 25), 3=371(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-435/961
BOT CHORD 3-4=-414/748
WEBS 1-3=-959/528

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 4 and 319 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T81	Roof Special	2	1	I52022313
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:02 2022 Page 1
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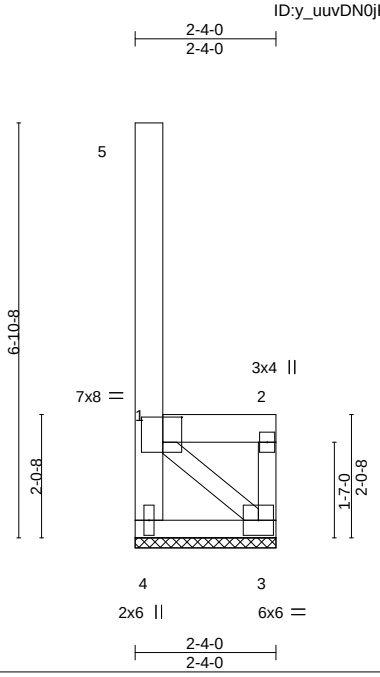

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-12 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-216(LC 11)
Max Uplift 4=-399(LC 11), 3=-399(LC 12)
Max Grav 4=440(LC 14), 3=440(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-549/1184, 2-3=-259/211
BOT CHORD 3-4=-521/960
WEBS 1-3=-1228/663

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 4 and 399 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 39, 42, 43, 44, 45, 46, 48, 67, 68, 69, 70 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

May 18,2022

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

39) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

42) Reversal: Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

43) Reversal: Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

44) Reversal: Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

45) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

46) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

48) Reversal: Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T82	Roof Special	1	1	I52022314
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:03 2022 Page 1
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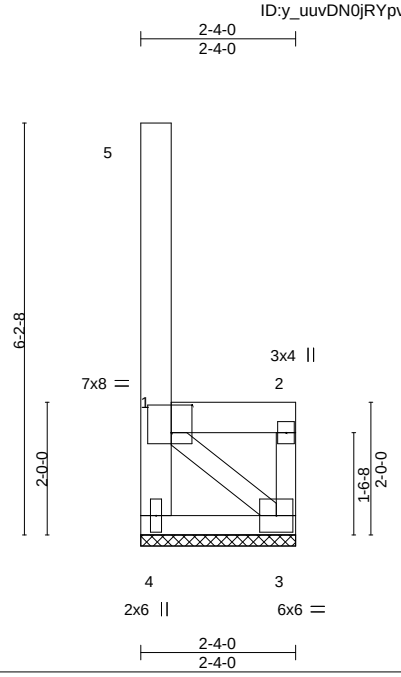

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=193(LC 14)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=372(LC 25), 3=372(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-442/965
BOT CHORD	3-4=-430/782
WEBS	1-3=-985/539

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 4 and 320 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T83	Roof Special	2	1	I52022315
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:04 2022 Page 1
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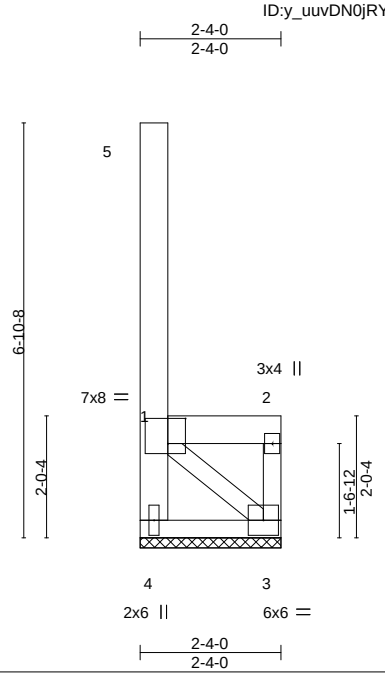

Plate Offsets (X,Y)-- [1:0-3-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-217(LC 11)
Max Uplift 4=-399(LC 11), 3=-399(LC 12)
Max Grav 4=441(LC 14), 3=441(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-550/1185, 2-3=-260/212
BOT CHORD 3-4=-526/971
WEBS 1-3=-1237/667

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 4 and 399 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 39, 42, 43, 44, 45, 46, 48, 67, 68, 69, 70 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

39) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

42) Reversal: Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

43) Reversal: Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

44) Reversal: Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

45) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

46) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

48) Reversal: Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

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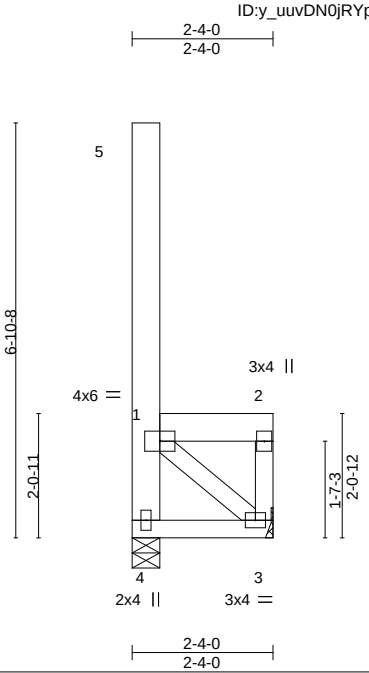
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T84	Roof Special	2	1	I52022316
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:05 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-w7R?Xzu0YOoMcypTOWgBMjrp0fUO_LgN8mk8r4zFIlO



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-36(LC 11)
Max Uplift 4=-12(LC 11), 3=-12(LC 12)
Max Grav 4=167(LC 1), 3=167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 12 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T85	Roof Special	1	1	I52022317
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:05 2022 Page 1
ID:y_uuvDN0jRYpvc1tIut_eUysaxg-w7R?Xzu0YOoMcypTOWgBMjrdKfSF_KyN8mk8r4zFIlO

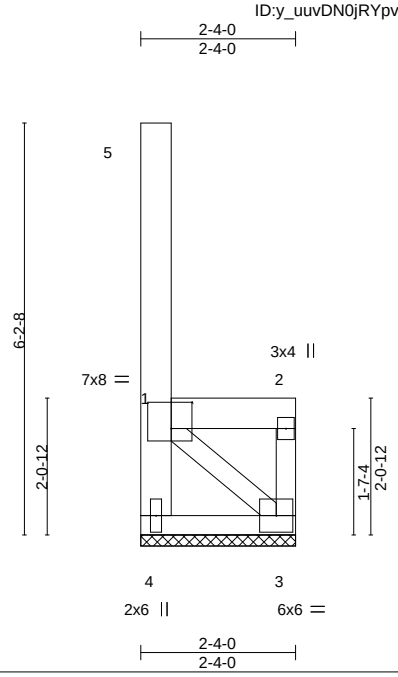

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-192(LC 13)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=371(LC 25), 3=371(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-437/962
BOT CHORD 3-4=-418/756
WEBS 1-3=-966/531

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 4 and 320 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T86	Roof Special	1	1	I52022318
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:06 2022 Page 1
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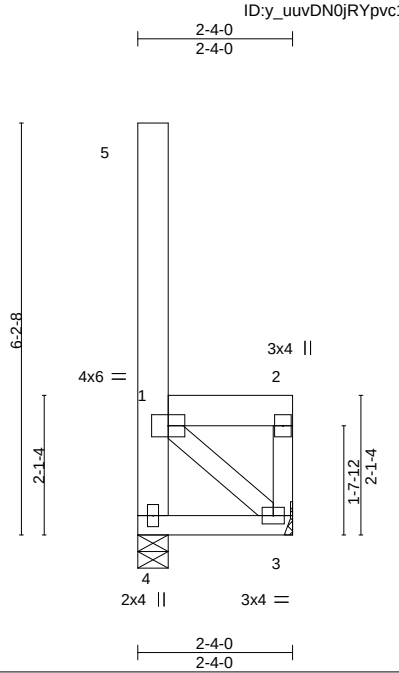

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=37(LC 12)
Max Uplift 4=-12(LC 11), 3=-12(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 12 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

May 18,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 1 Area D ROOF

Job	Truss	Truss Type	Qty	Ply	BLDG 1 D ROOF
PRYOR-R1D	T87	Roof Special	1	1	I52022319
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed May 18 09:48:07 2022 Page 1
ID:y_uuvDN0jRYpvc1tlut_eUysaxg-sWYmyfwH4034sGzrWxifR8xy4T6NSDCgc4DFvyzFIlM

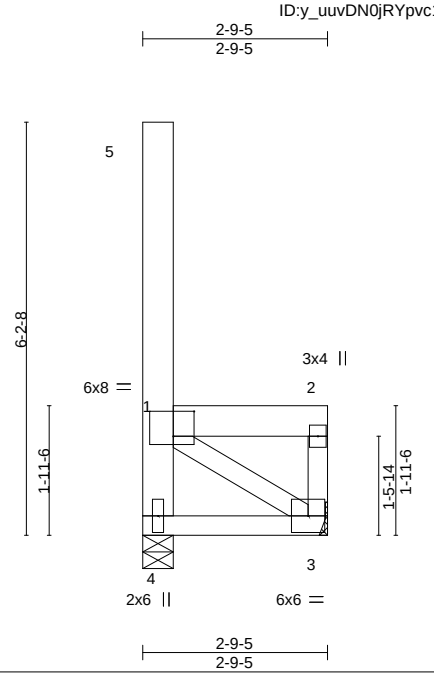

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.00	3-4	>999	240		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=193(LC 12)
Max Uplift 4=-260(LC 11), 3=-260(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/815
BOT CHORD 3-4=-463/829
WEBS 1-3=-963/536

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 4 and 260 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

May 18,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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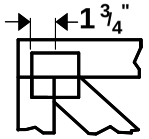
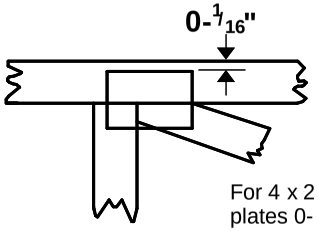
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

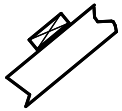
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

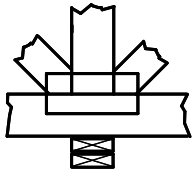
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

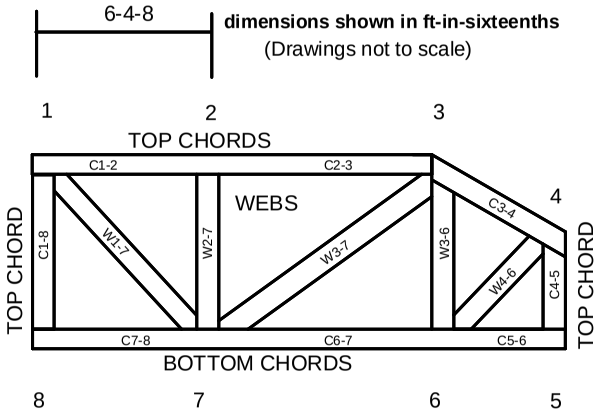


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 1 Area D ROOF

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
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Lee S. Johnson, P.E.
Steven R. Carroll, P.E.
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Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: December 16, 2021

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-3 Revision 0: Building 2 Area A - 2nd Floor Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

2-H
(3)-1 3/4X18
(3)-1 3/4X18
(3)-1 3/4X18
BBO58
BBO57
BBO38
BBO39
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BBO98
BBO99

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F2A

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 12/16/2021 *BY:* cb

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49166064 thru I49166145

My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: Engineering 001193

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 1/20/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

December 9,2021

Garcia, Juan ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C1	Floor	8	1	I49166064
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:21 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-0yFK5OnYXuz313OrUDZ_7DwYEYseOT9JNQu6QWyB?4a

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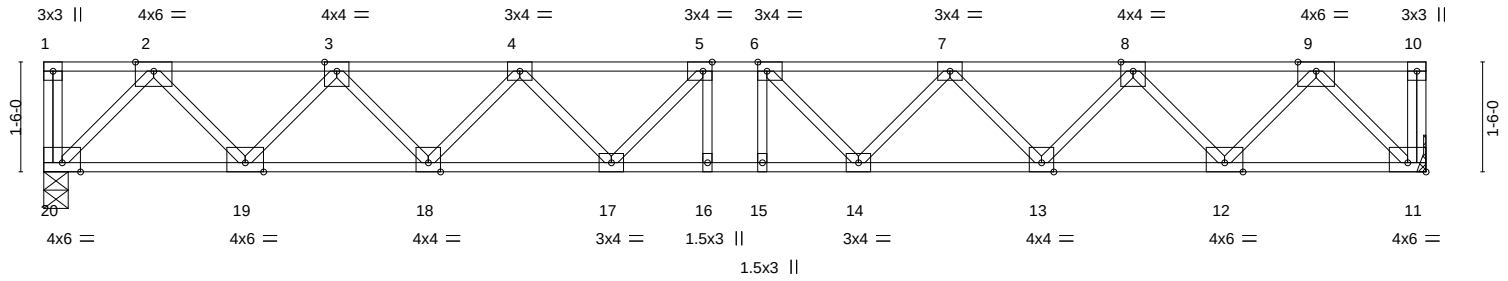
Scale = 1:31.5



18-10-8
18-10-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.35	16	>647	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.43	16	>518	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.10	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 104 lb	FT = 3%F, 3%E

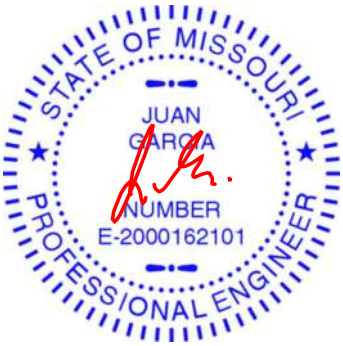
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-4-0, 11=Mechanical
Max Grav 20=1552(LC 1), 11=1552(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2505/0, 3-4=-4156/0, 4-5=-5031/0, 5-6=-5276/0, 6-7=-5031/0, 7-8=-4156/0, 8-9=-2505/0
BOT CHORD 19-20=0/1478, 18-19=0/3514, 17-18=0/4783, 16-17=0/5276, 15-16=0/5276, 14-15=0/5276, 13-14=0/4783, 12-13=0/3514, 11-12=0/1478
WEBS 2-20=-2090/0, 2-19=0/1526, 3-19=-1501/0, 3-18=0/954, 4-18=-933/0, 4-17=-39/558, 5-17=-665/176, 5-16=-298/306, 9-11=-2090/0, 9-12=0/1526, 8-12=-1501/0, 8-13=0/954, 7-13=-933/0, 7-14=-39/558, 6-14=-665/176, 6-15=-298/306

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C2	Floor	7	1	I49166065
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:27 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-r6dbLRsJ6kjCm_r?qTgOMUAZBz_YoE6BmMLQeAyB?4U

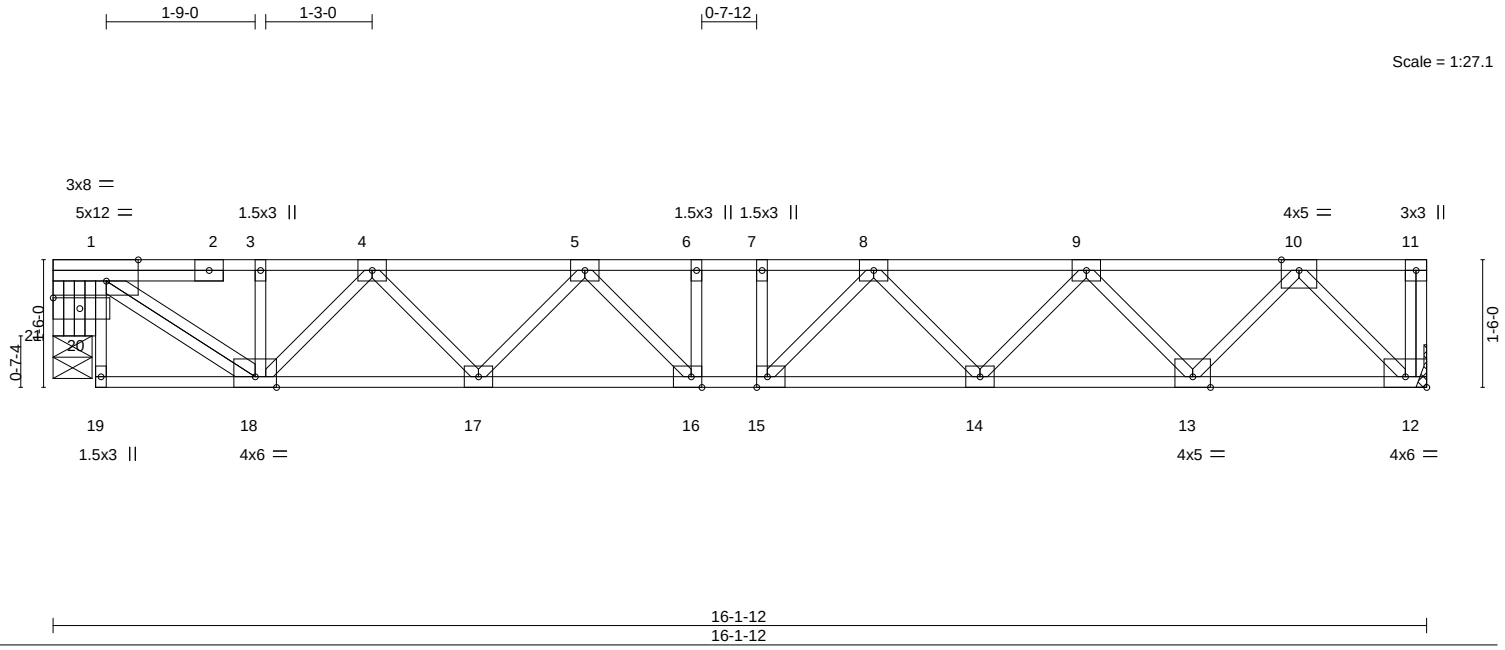

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [12:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge], [21:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.19	15	>989	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.24	14-15	>790	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-18: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 21=0-5-8
Max Grav 12=1302(LC 1), 21=1274(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1640/0, 3-4=-1645/0, 4-5=-3025/0, 5-6=-3678/0, 6-7=-3678/0, 7-8=-3678/0, 8-9=-3221/0, 9-10=-2030/0
BOT CHORD	17-18=0/2533, 16-17=0/3506, 15-16=0/3678, 14-15=0/3605, 13-14=0/2817, 12-13=0/1227
WEBS	10-12=-1735/0, 10-13=0/1194, 9-13=-1171/0, 9-14=0/600, 8-14=-571/0, 8-15=-280/484, 1-18=0/1849, 4-18=-1252/0, 4-17=0/731, 5-17=-715/0, 5-16=-196/579, 6-16=-276/49, 1-21=-1306/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

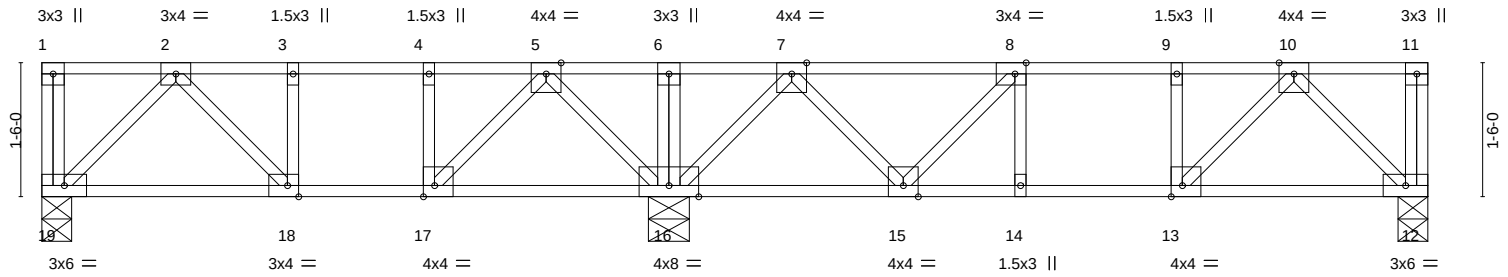
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C3	Floor	3	1	I49166066
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:28 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-JIBzZntxt2r3N8QBOBBdvhjlmNGRXh6L_04_AcyB?4T

1-3-0 1-4-12 1-7-8

Scale = 1:25.8



7-0-4 15-6-4
7-0-4 8-6-0

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.08	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

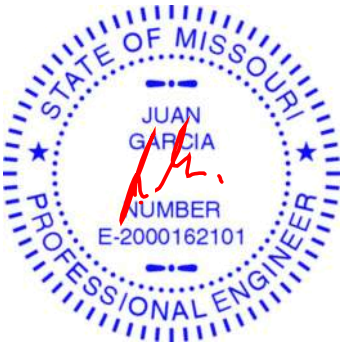
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-4-0, 16=0-5-8
Max Grav 19=997(LC 10), 12=1154(LC 7), 16=2628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1172/184, 3-4=-1172/184, 4-5=-1172/184, 5-6=0/1111, 6-7=0/1111, 7-8=-1141/0, 8-9=-1582/0, 9-10=-1582/0
BOT CHORD 18-19=-21/822, 17-18=-184/1172, 16-17=-502/703, 15-16=-46/633, 14-15=0/1582, 13-14=0/1582, 12-13=0/985
WEBS 6-16=-348/0, 2-19=-1162/30, 2-18=-235/508, 5-16=-1489/0, 5-17=0/1093, 4-17=-669/0, 3-18=-360/125, 7-16=-1835/0, 7-15=0/884, 10-12=-1393/0, 10-13=0/864, 9-13=-518/0, 8-15=-839/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C4	Floor	2	1	I49166067
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:29 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-nUkLm7tZeMzw?I?NyuisSvFwOndVG9WUDgqXi2yB?4S

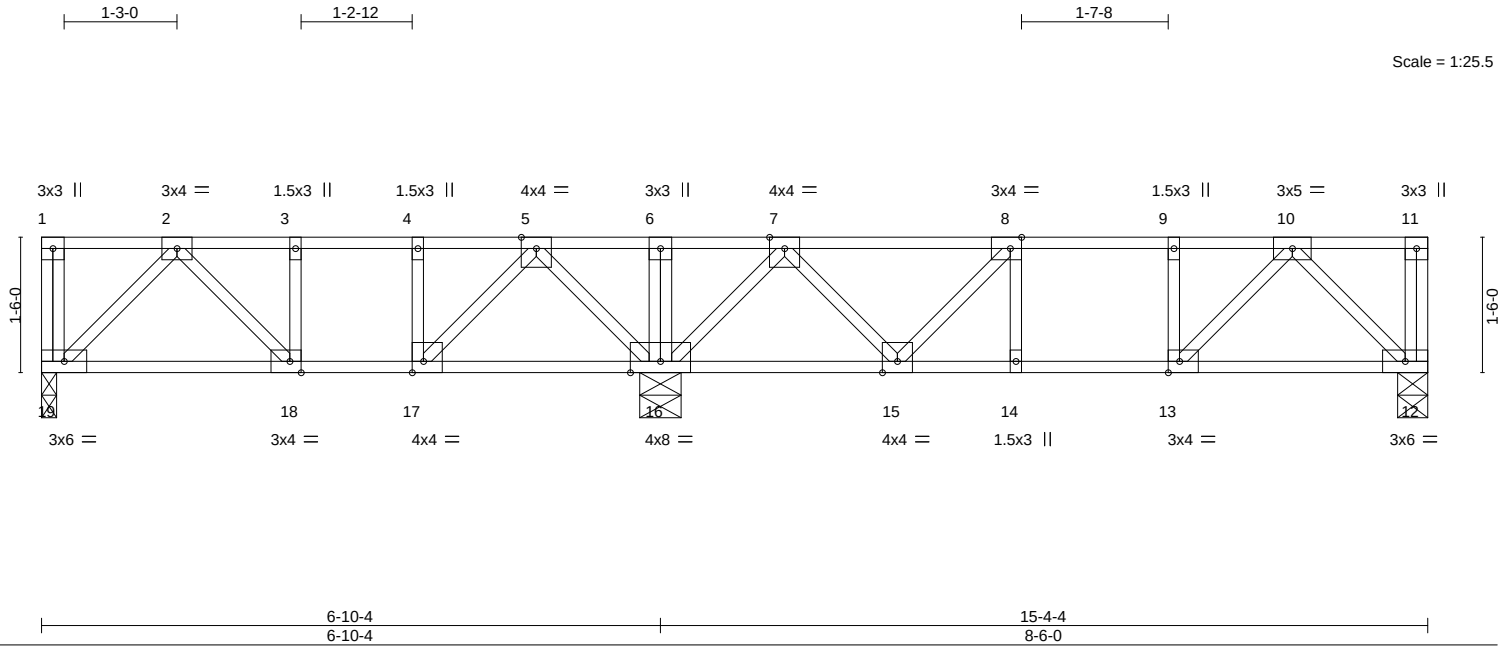


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.08	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

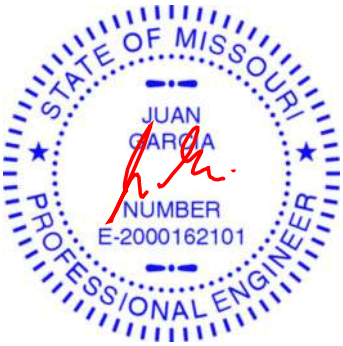
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-2-0, 12=0-4-0, 16=0-5-8
Max Uplift 19=-7(LC 4)
Max Grav 19=970(LC 10), 12=1139(LC 7), 16=2630(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1116/223, 3-4=-1116/223, 4-5=-1116/223, 5-6=0/1175, 6-7=0/1175, 7-8=-1080/0, 8-9=-1544/0, 9-10=-1544/0
BOT CHORD 18-19=-41/796, 17-18=-223/1116, 16-17=-550/677, 15-16=-55/556, 14-15=0/1544, 13-14=0/1544, 12-13=0/970
WEBS 6-16=-347/0, 2-19=-1126/59, 2-18=-263/463, 5-16=-1485/0, 5-17=0/1073, 4-17=-650/0, 3-18=-328/140, 10-12=-1372/0, 10-13=0/831, 9-13=-502/0, 7-16=-1841/0, 7-15=0/891, 8-15=-849/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

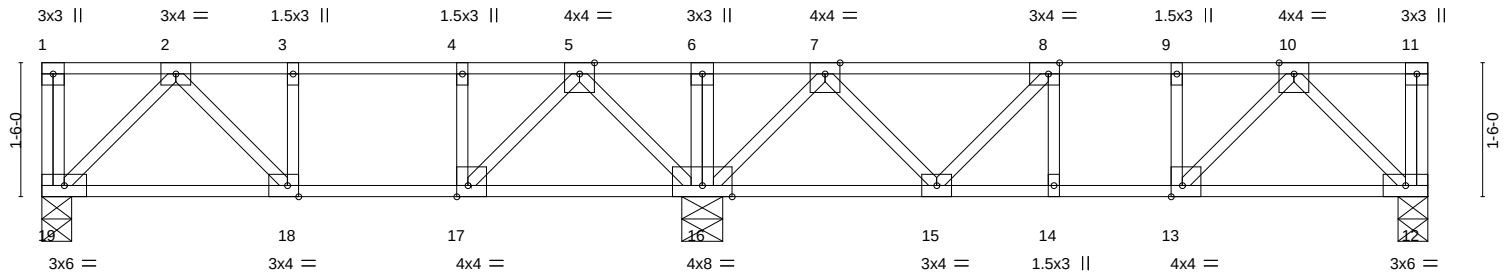
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C5	Floor	12	1	I49166068
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:30 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-GhIj_TuBPf6ndRaaWcD5_6o1MAw6?cmeSKZ4FVyB?4R

1-3-0 1-9-4 1-3-0

Scale = 1:25.8



7-4-12 15-6-4
7-4-12 8-1-8

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.09	18-19	>992	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.10	18-19	>844	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

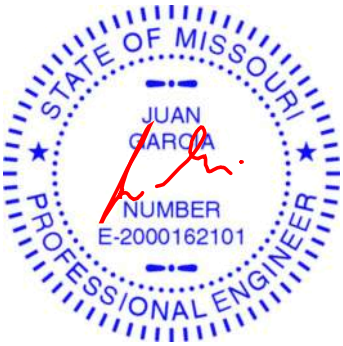
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-4-0, 16=0-5-8
Max Grav 19=1051(LC 10), 12=1150(LC 7), 16=2545(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1290/45, 3-4=-1290/45, 4-5=-1290/45, 5-6=0/994, 6-7=0/994, 7-8=-1264/0, 8-9=-1576/0, 9-10=-1576/0
BOT CHORD 18-19=0/872, 17-18=-45/1290, 16-17=-307/740, 15-16=-33/860, 14-15=0/1576, 13-14=0/1576, 12-13=0/987
WEBS 6-16=-341/0, 2-19=-1233/0, 2-18=-121/606, 3-18=-433/59, 5-16=-1470/0, 5-17=0/1071, 4-17=-671/0, 7-16=-1746/0, 7-15=0/785, 8-15=-723/0, 10-12=-1396/0, 10-13=0/853, 9-13=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C6	Floor	2	1	I49166069
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:31 2021 Page 1
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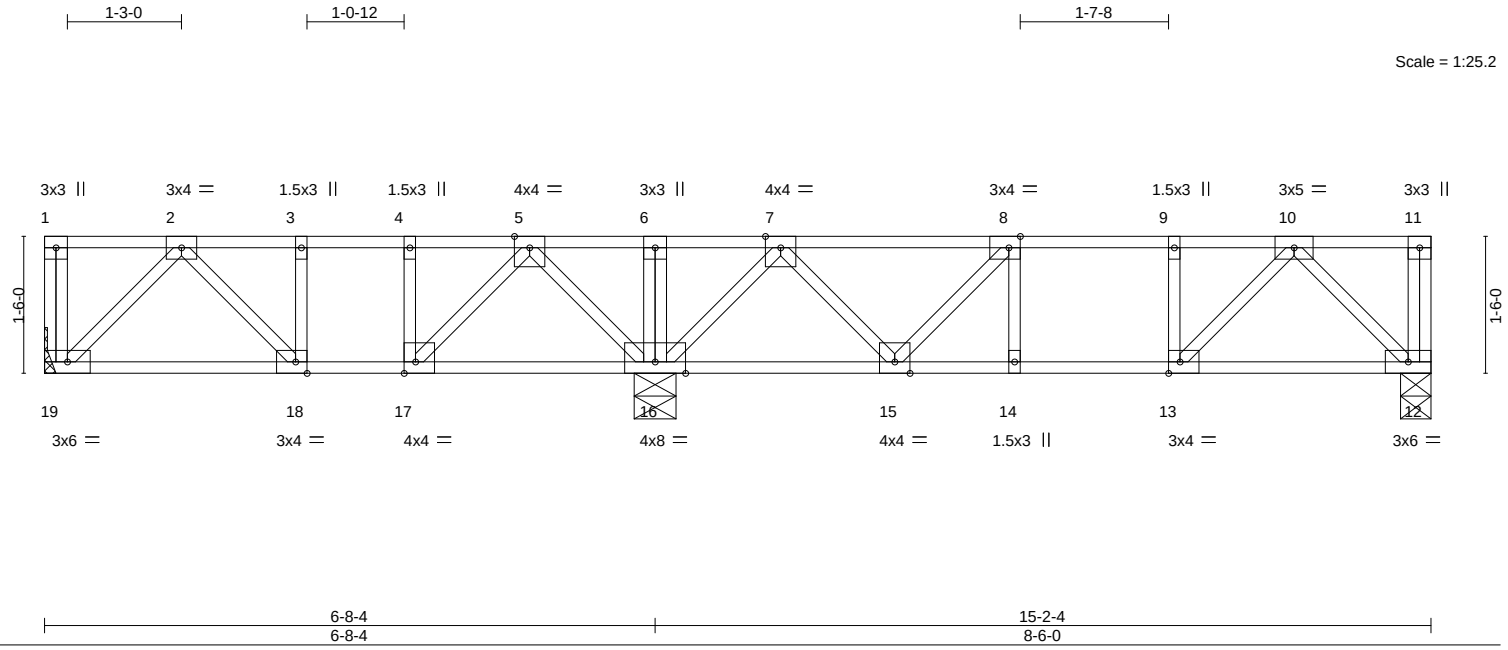


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.07	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.08	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

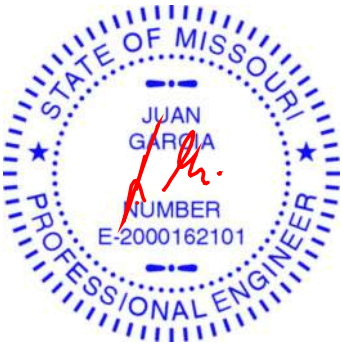
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=0-4-0, 16=0-5-8
Max Uplift 19=-29(LC 4)
Max Grav 19=943(LC 10), 12=1124(LC 7), 16=2634(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1061/263, 3-4=-1061/263, 4-5=-1061/263, 5-6=0/1254, 6-7=0/1254, 7-8=-1016/0, 8-9=-1504/0, 9-10=-1504/0
BOT CHORD 18-19=-63/771, 17-18=-263/1061, 16-17=-599/652, 15-16=-63/476, 14-15=0/1504, 13-14=0/1504, 12-13=0/954
WEBS 6-16=-346/0, 2-19=-1090/89, 2-18=-290/420, 5-16=-1482/0, 5-17=0/1054, 4-17=-633/0, 3-18=-297/155, 7-16=-1847/0, 7-15=0/898, 8-15=-860/0, 10-12=-1349/0, 10-13=0/796, 9-13=-486/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

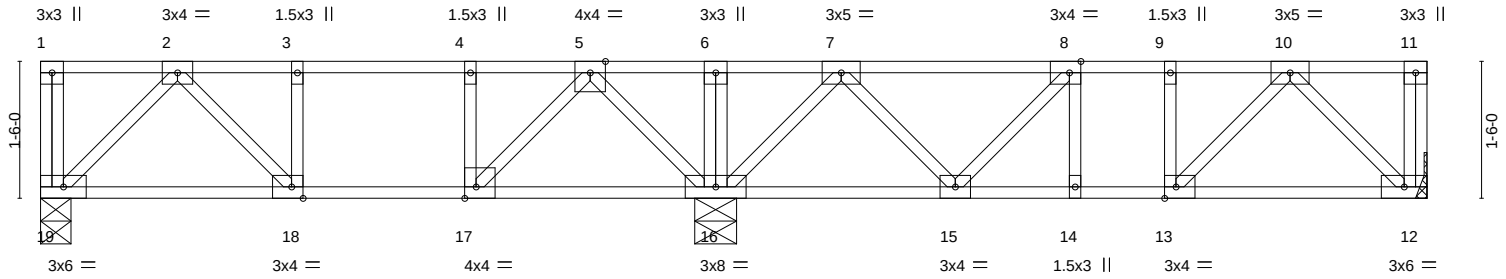
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C7	Floor	4	1	I49166070
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:32 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-C3QUP9wRxHMVsljyd0FZ3XtOj_d6TWlwve2BJNyB?4P

1-3-0 1-9-4 0-11-0

Scale = 1:25.2



7-4-12 15-2-4
7-4-12 7-9-8

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.08	18-19	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.09	18-19	>936	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

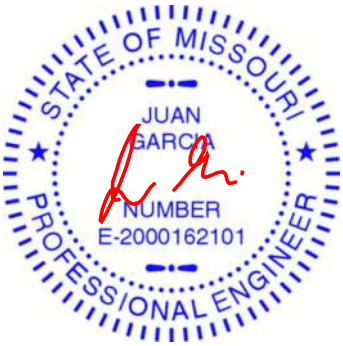
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=Mechanical, 16=0-5-8
Max Grav 19=1046(LC 10), 12=1121(LC 7), 16=2474(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1276/0, 3-4=-1276/0, 4-5=-1276/0, 5-6=0/937, 6-7=0/937, 7-8=-1257/0, 8-9=-1506/0, 9-10=-1506/0
BOT CHORD 18-19=0/866, 17-18=0/1276, 16-17=-225/717, 15-16=-39/917, 14-15=0/1506, 13-14=0/1506, 12-13=0/959
WEBS 6-16=-338/0, 2-19=-1225/0, 2-18=-77/593, 5-16=-1432/0, 5-17=0/1008, 4-17=-639/0, 3-18=-426/37, 7-16=-1674/0, 7-15=0/713, 8-15=-645/0, 10-12=-1356/0, 10-13=0/793, 9-13=-395/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

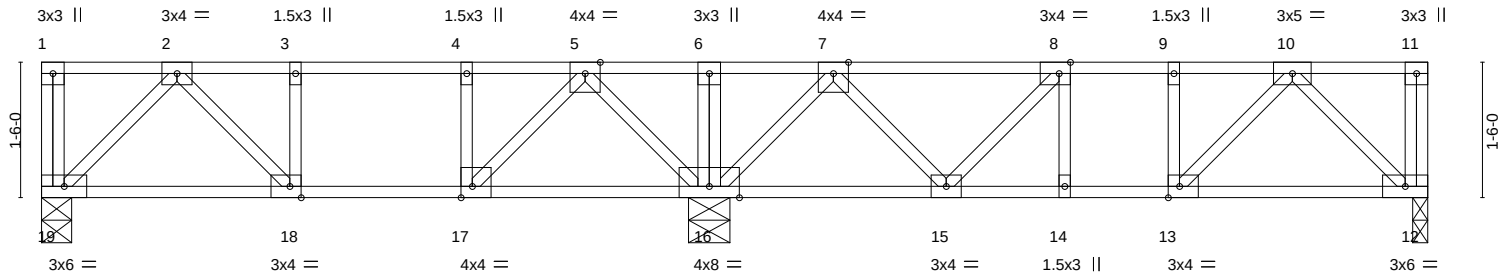
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C8	Floor	1	1	I49166071
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:33 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-gG_scUx3iaUMUvI9BkmoclQYDOz3Czl48HokrpyB?4O

1-3-0 1-9-4 1-1-0

Scale = 1:25.5



7-4-12 15-4-4
7-4-12 7-11-8

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.08	18-19	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.10	18-19	>887	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

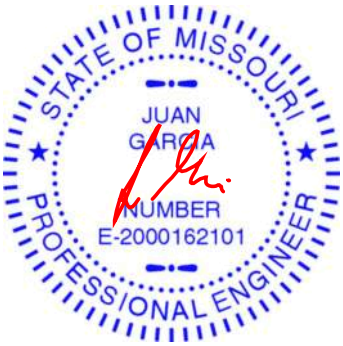
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-2-0, 16=0-5-8
Max Grav 19=1049(LC 10), 12=1135(LC 7), 16=2506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1283/20, 3-4=-1283/20, 4-5=-1283/20, 5-6=0/966, 6-7=0/966, 7-8=-1261/0, 8-9=-1541/0, 9-10=-1541/0
BOT CHORD 18-19=0/869, 17-18=-20/1283, 16-17=-266/728, 15-16=-36/889, 14-15=0/1541, 13-14=0/1541, 12-13=0/973
WEBS 6-16=-339/0, 2-19=-1229/0, 2-18=-99/600, 5-16=-1451/0, 5-17=0/1039, 4-17=-655/0, 3-18=-429/48, 7-16=-1711/0, 7-15=0/749, 8-15=-683/0, 10-12=-1376/0, 10-13=0/822, 9-13=-430/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C9	Floor	9	1	I49166072
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:34 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-8SYEpqxiTucC53tLlRI19yzlroKYxRaDNxXIOGyB?4N

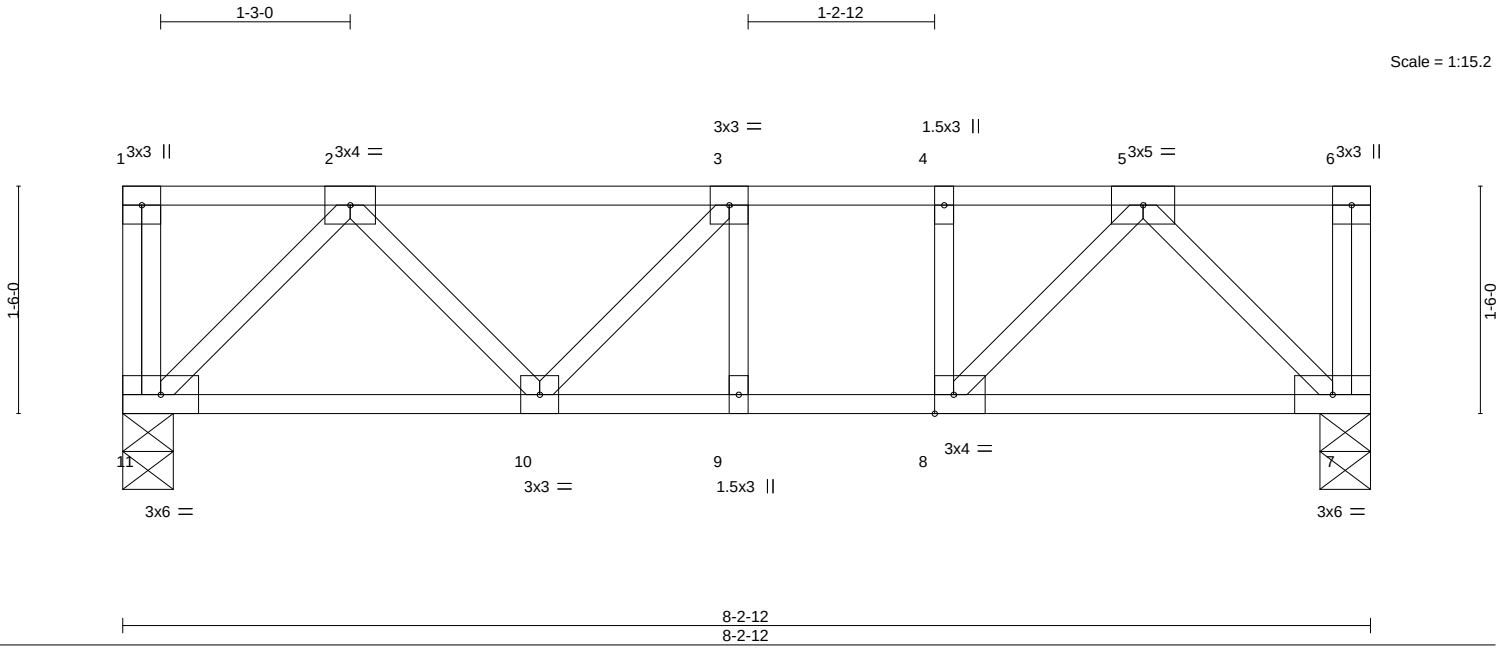


Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.10	9-10	>958	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

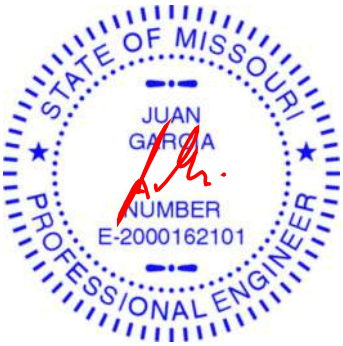
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=0-4-0
Max Grav 11=998(LC 1), 7=998(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1211/0, 3-4=-1407/0, 4-5=-1407/0
BOT CHORD 10-11=0/920, 9-10=0/1407, 8-9=0/1407, 7-8=0/864
WEBS 2-11=-1302/0, 2-10=0/431, 3-10=-397/0, 3-9=-280/41, 5-7=-1222/0, 5-8=0/826, 4-8=-405/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C10	Floor	3	1	I49166073
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:22 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-V8pilkoAIC5vfDy12w4DfQTiyyBk70wSc4dfyyyB?4Z

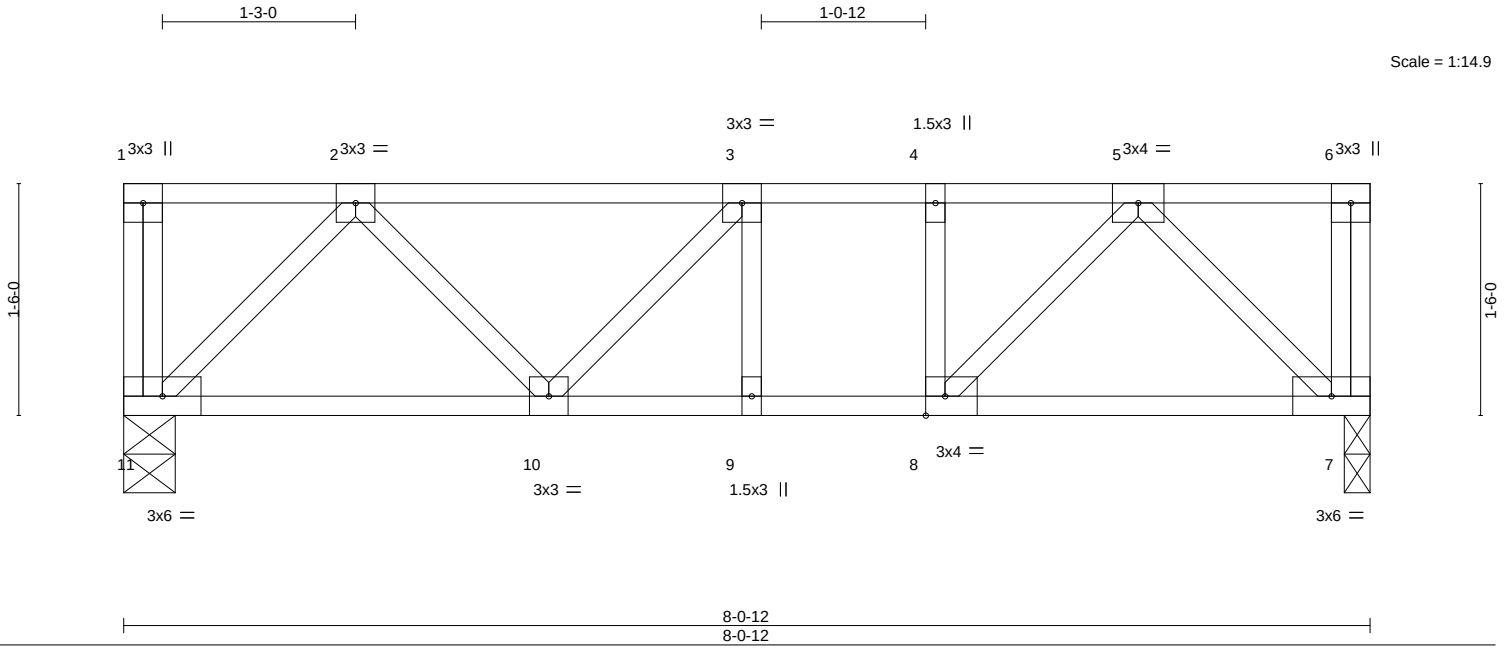

Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=0-2-0
Max Grav 11=977(LC 1), 7=977(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1170/0, 3-4=-1357/0, 4-5=-1357/0
BOT CHORD 10-11=0/899, 9-10=0/1357, 8-9=0/1357, 7-8=0/841
WEBS 2-11=-1271/0, 2-10=0/403, 3-10=-368/0, 3-9=-264/37, 5-7=-1189/0, 5-8=0/784, 4-8=-381/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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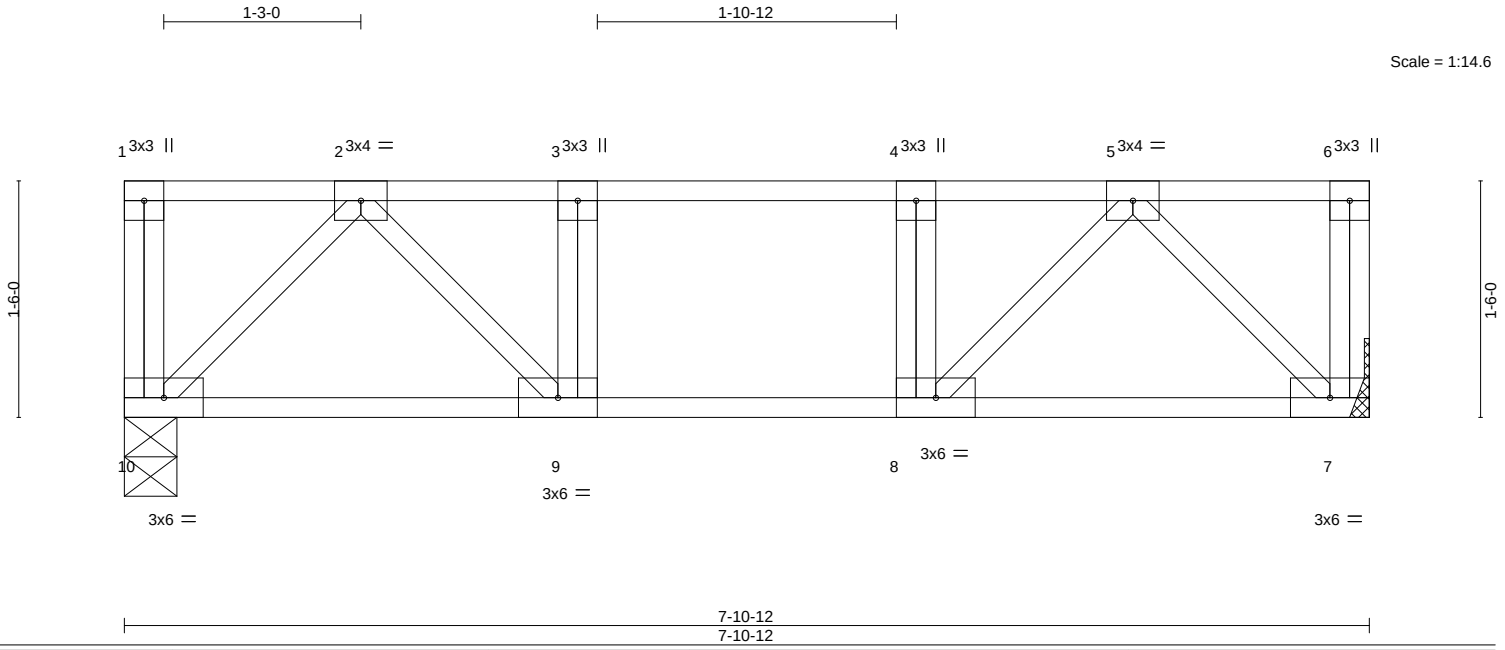
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C11	Floor	4	1	I49166074
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:23 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-zKN4W4po3WDmHMXEbebSCe?t8MejsTKcrkNDVOyB?4Y



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

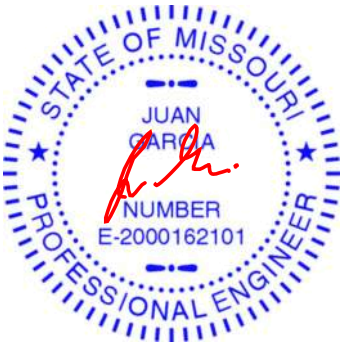
REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=956(LC 1), 7=956(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1278/0, 3-4=-1278/0, 4-5=-1278/0
BOT CHORD	9-10=0/804, 8-9=0/1278, 7-8=0/804
WEBS	2-10=-1137/0, 2-9=0/762, 5-7=-1137/0, 5-8=0/762, 4-8=-458/0, 3-9=-458/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C12	Floor	2	1	I49166075
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:24 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-RXxSjQqQqpLdvW6Q9L6hlrY4om?wbw9l4O6m1ryB?4X

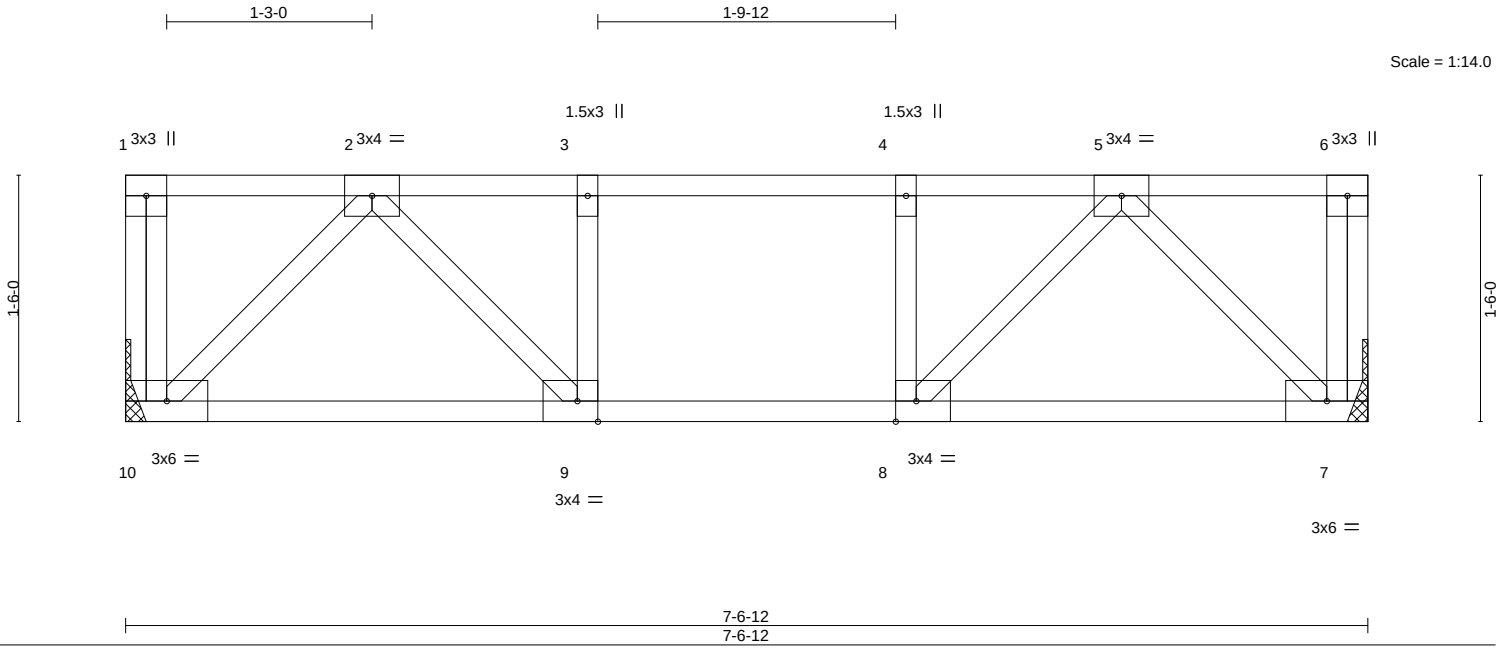

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=914(LC 1), 7=914(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1174/0, 3-4=-1174/0, 4-5=-1174/0
BOT CHORD 9-10=0/764, 8-9=0/1174, 7-8=0/764
WEBS 2-10=-1080/0, 2-9=0/686, 3-9=-419/0, 5-7=-1080/0, 5-8=0/686, 4-8=-419/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	C13	Floor	1	1	I49166076
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:26 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-Nv3D85rgLRbL8qGoHm89qGdP_Zgt3qJ2Xibt6jyB?4V

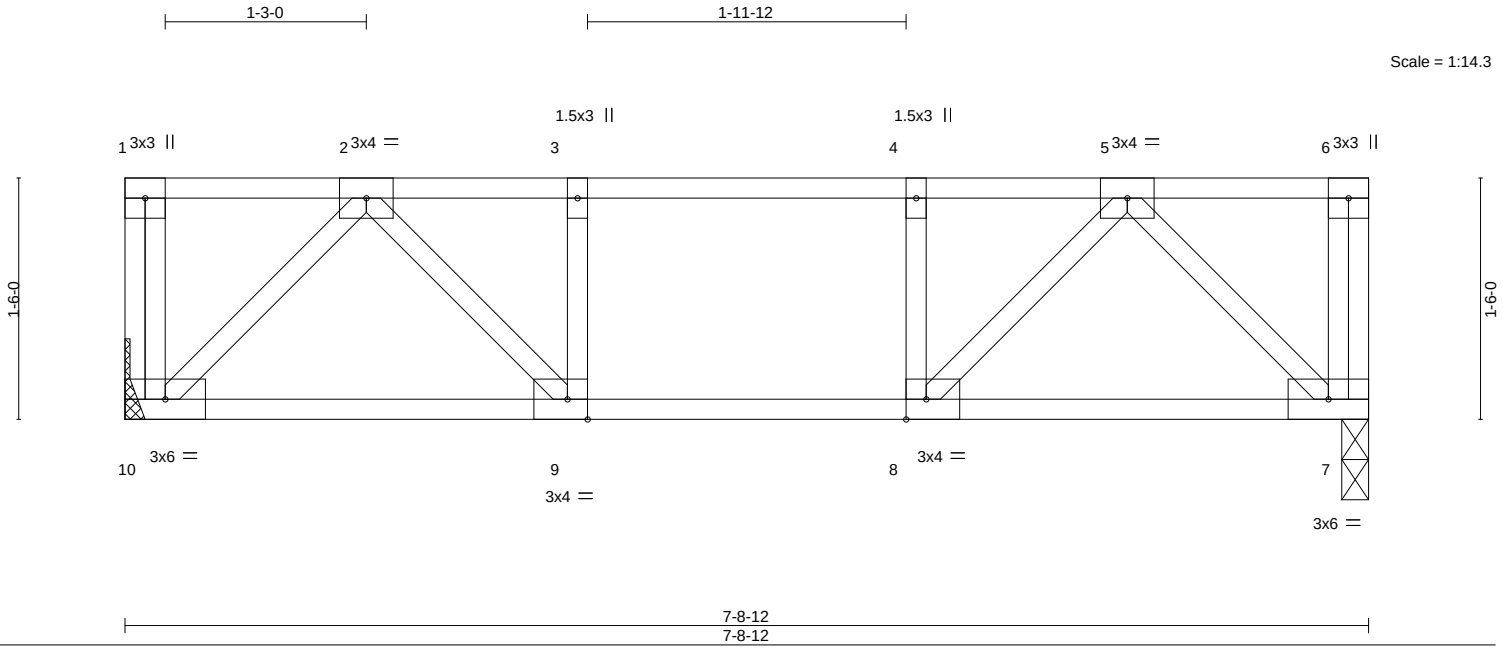


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 3%F, 3%E

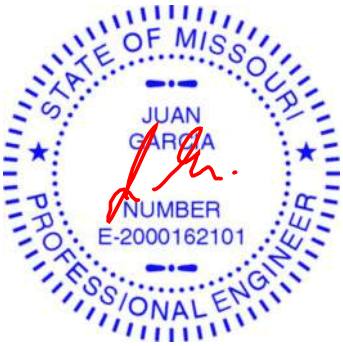
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-2-0
Max Grav 10=935(LC 1), 7=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1222/0, 3-4=-1222/0, 4-5=-1222/0
BOT CHORD 9-10=0/783, 8-9=0/1222, 7-8=0/783
WEBS 2-10=-1107/0, 2-9=0/732, 5-7=-1107/0, 5-8=0/732, 4-8=-451/0, 3-9=-451/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F1	Floor	6	1	I49166077
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:34 2021 Page 1
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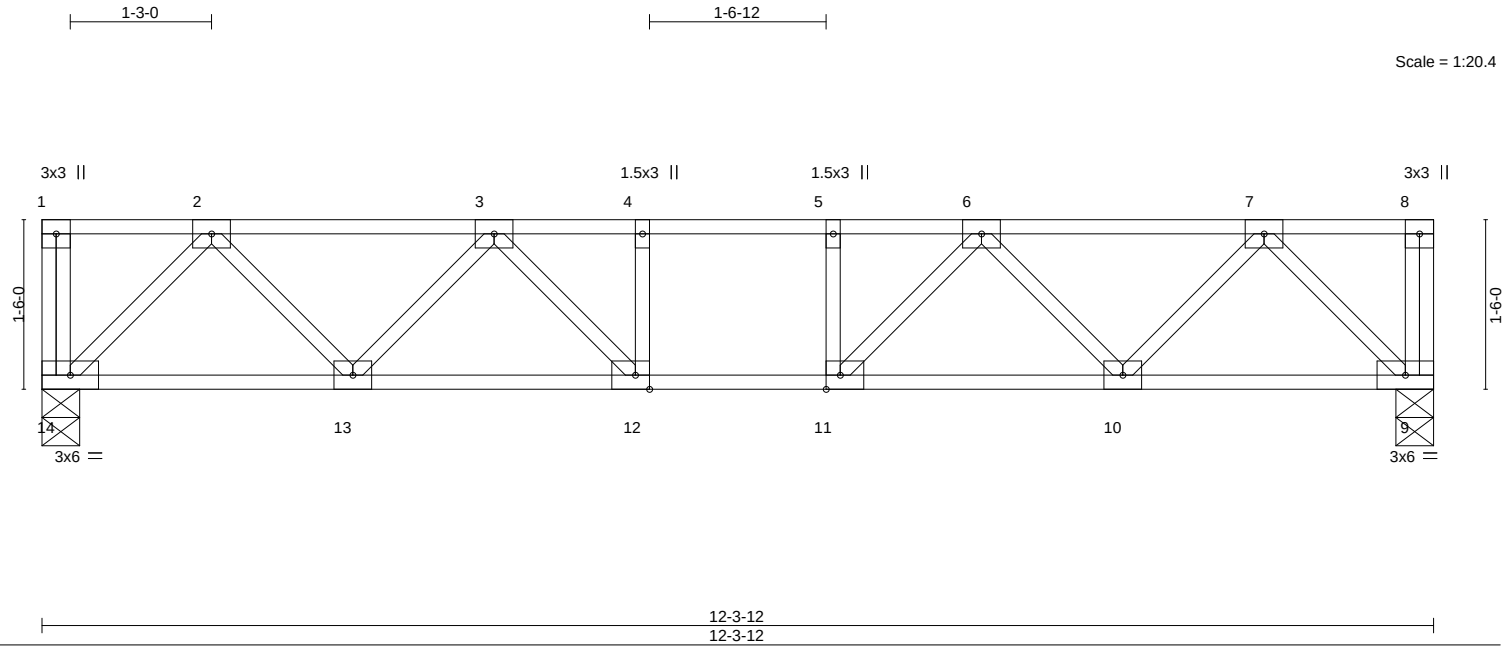


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

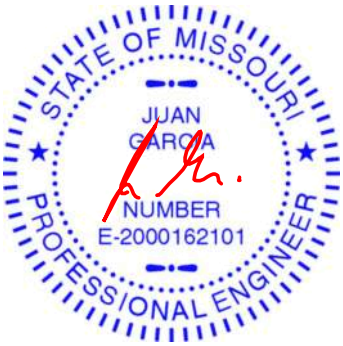
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F1G	FLOOR GIRDER	1	1	I49166078
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:55 2021 Page 1
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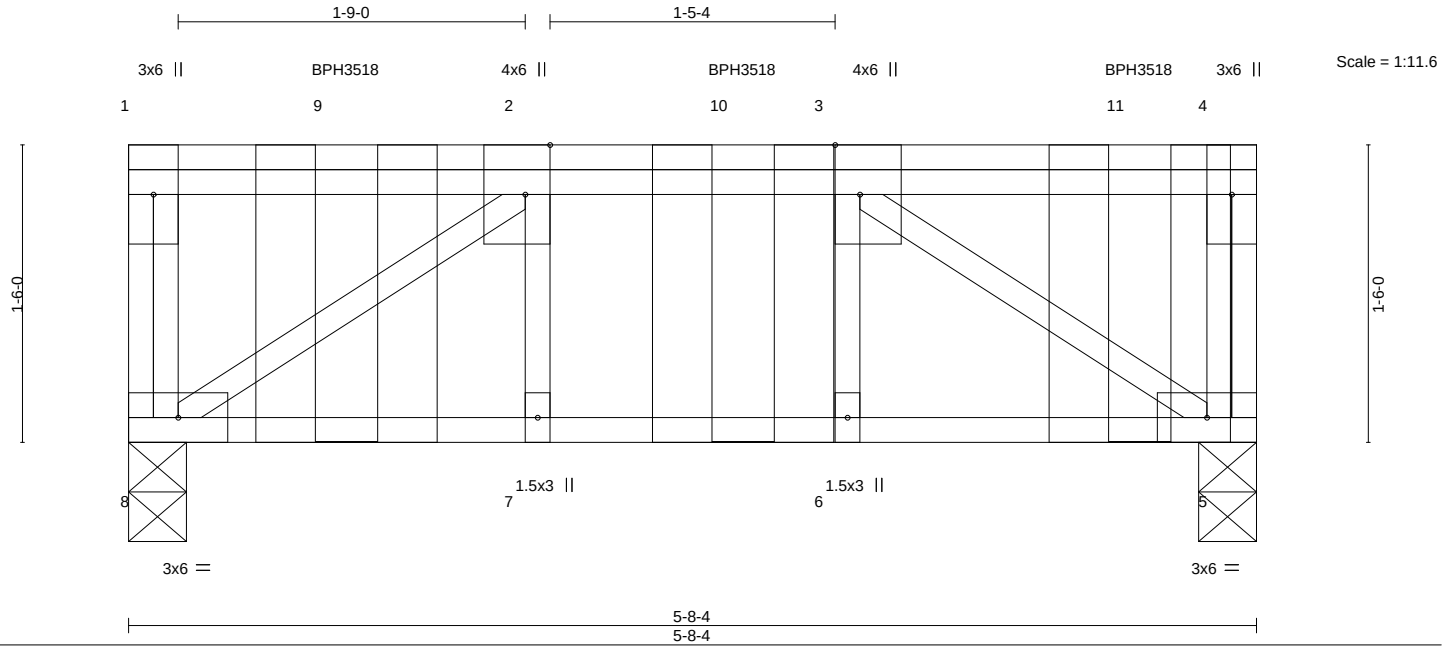


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

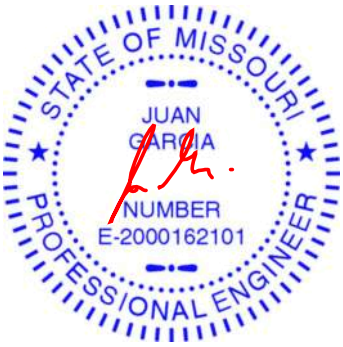
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=1630(LC 1), 5=1736(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-517/0, 4-5=-621/0, 2-3=-1679/0
BOT CHORD 7-8=0/1679, 6-7=0/1679, 5-6=0/1679
WEBS 2-8=-2028/0, 3-5=-2028/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-3 from the left end to 5-1-3 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-287(F) 10=-286(F) 11=-318(F)



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F2	Floor	26	1	I49166079
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:56 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VhtYRMCVHfN5kRZZ13hB2btdmfwH5PhTQNsS9_yB?41

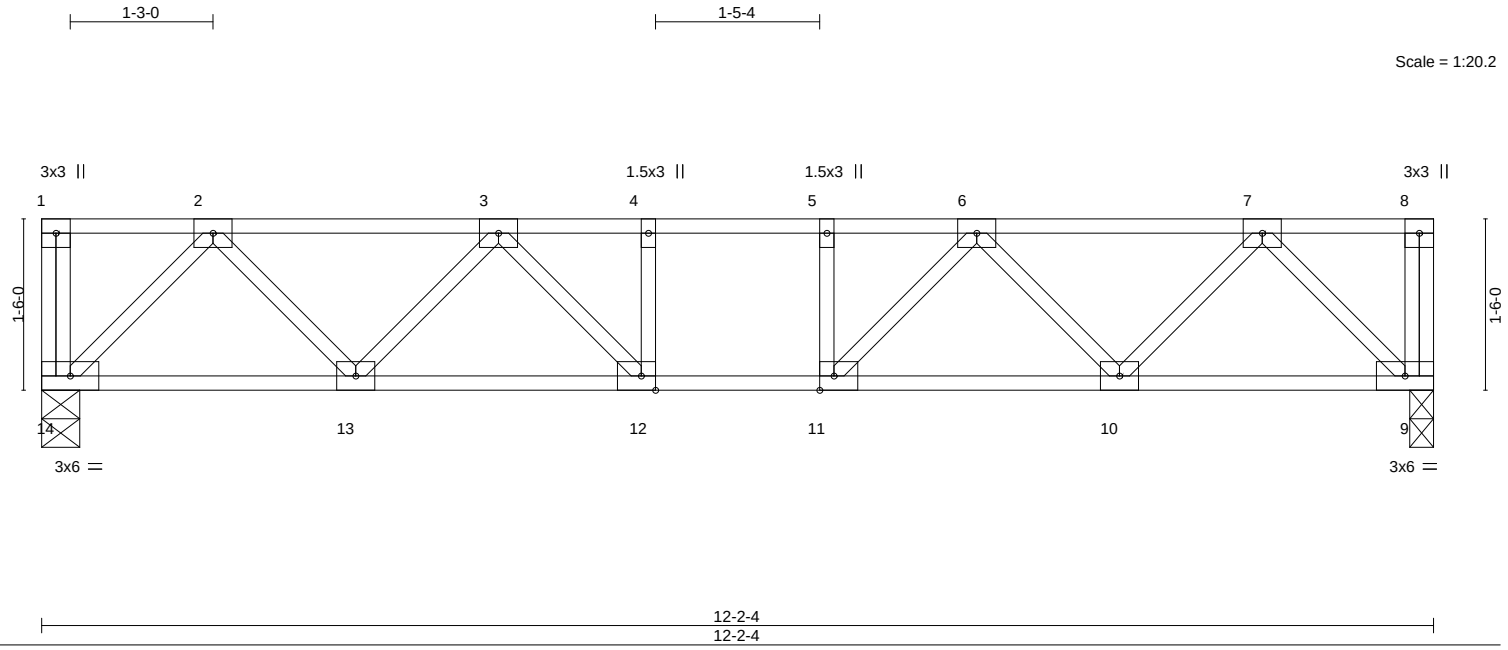


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

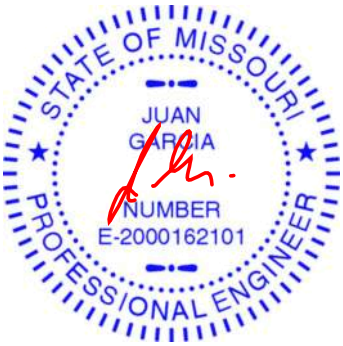
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F2G	FLOOR GIRDER	1	1	I49166080
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:07 2021 Page 1
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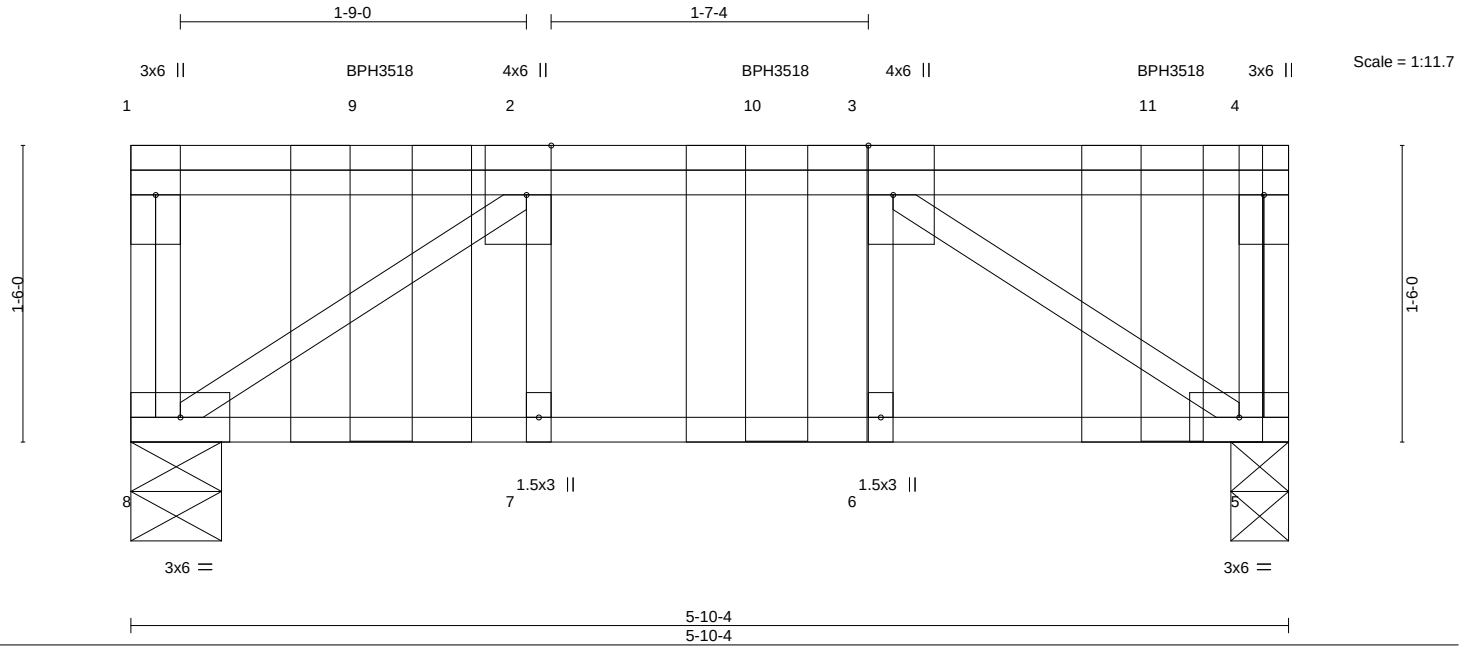


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

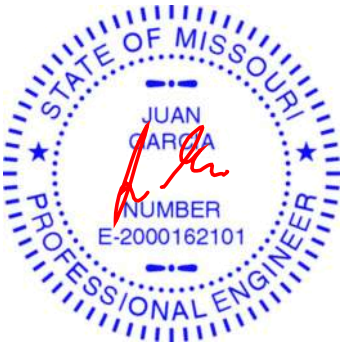
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=1654(LC 1), 5=1785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-489/0, 4-5=-617/0, 2-3=-1760/0
BOT CHORD 7-8=0/1760, 6-7=0/1760, 5-6=0/1760
WEBS 2-8=-2126/0, 3-5=-2126/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-3 from the left end to 5-3-3 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-286(F) 10=-286(F) 11=-318(F)



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

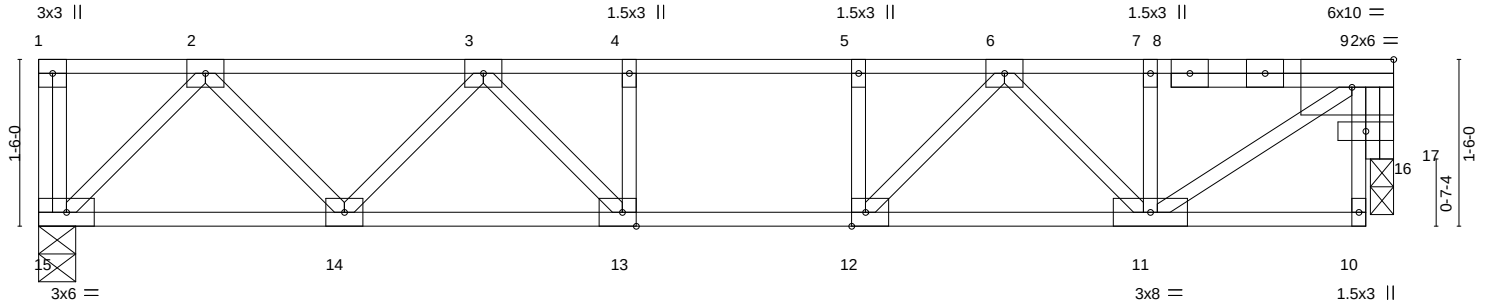
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F3	Floor	4	1	I49166081
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-go1jl7LOh1mXZ7vhAtNm_wqRO5esAOA4ya1Y1ryB?3s

1-3-0 | 1-11-4 | 1-9-0

Scale = 1:20.7



12-2-4
12-2-4

Plate Offsets (X,Y)-- [9:0-4-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.12	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

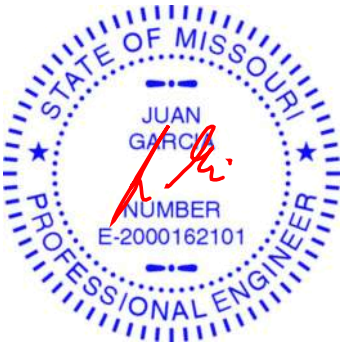
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
9-11: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1126/0, 3-4=-1646/0, 4-5=-1646/0, 5-6=-1646/0, 6-7=-966/0, 7-9=-970/0
BOT CHORD 14-15=0/719, 13-14=0/1500, 12-13=0/1646, 11-12=0/1358
WEBS 9-11=0/1071, 2-15=-1017/0, 2-14=0/605, 3-14=-556/0, 3-13=0/394, 6-11=-567/0, 6-12=0/537, 5-12=-302/0, 9-17=-774/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F3G	FLOOR GIRDER	1	1	I49166082
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:21 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GVu?hvWAOKXYEHzN?pe3ZtPnkkNUSgD8AlQHX1yB?3e

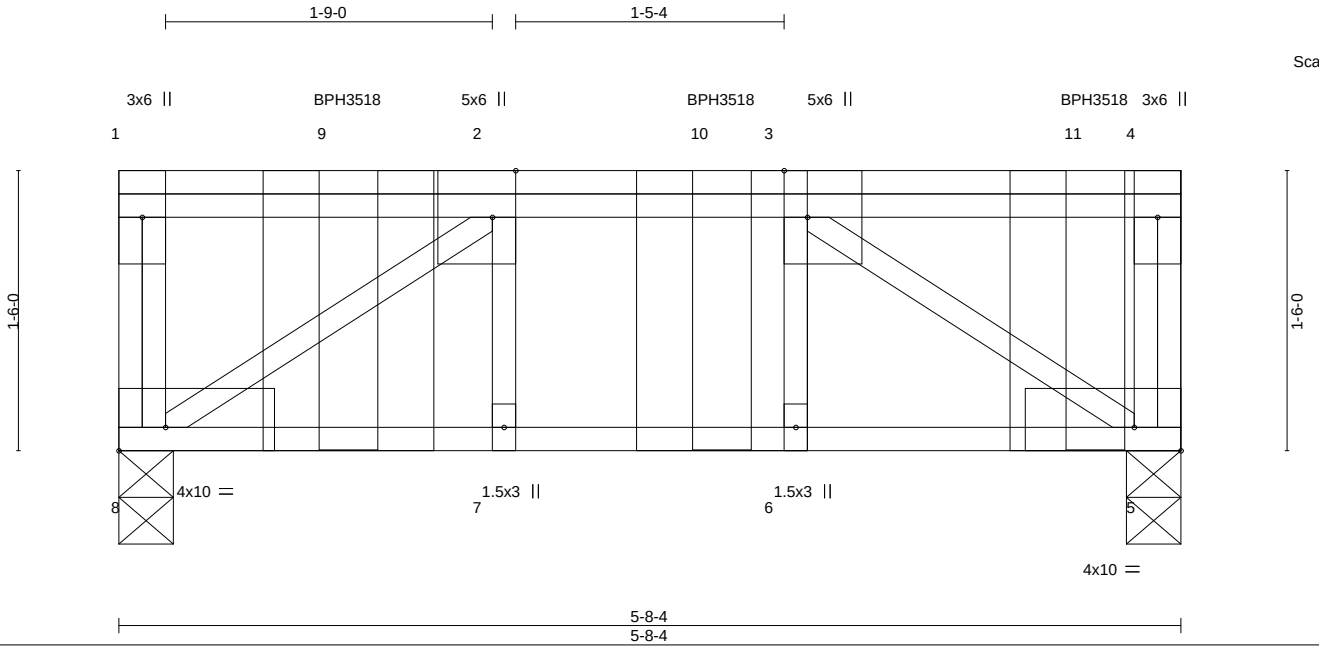


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

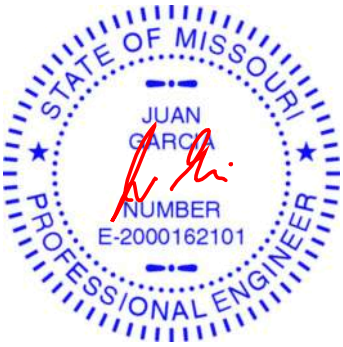
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2264(LC 1), 5=2674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-667/0, 4-5=-1077/0, 2-3=-2391/0
BOT CHORD 7-8=0/2391, 6-7=0/2391, 5-6=0/2391
WEBS 2-8=-2888/0, 3-5=-2888/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 5-2-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-794(B) 10=-794(B) 11=-876(B)



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

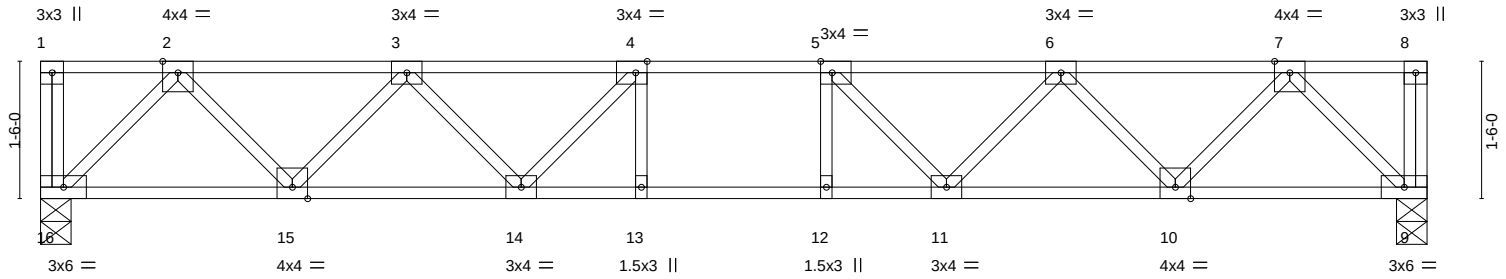
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F4	Floor	3	1	I49166083
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:22 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-khRNuFWp9efPsRYZZX9I54y1D8kpB84HPP9q3UyB?3d

1-3-0 1-10-12

Scale = 1:25.2



15-1-12
15-1-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.17	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

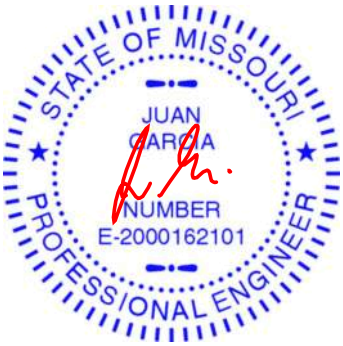
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-0, 9=0-4-0
Max Grav 16=968(LC 1), 9=968(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1498/0, 3-4=-2335/0, 4-5=-2605/0, 5-6=-2335/0, 6-7=-1498/0
BOT CHORD 15-16=0/907, 14-15=0/2063, 13-14=0/2605, 12-13=0/2605, 11-12=0/2605, 10-11=0/2063, 9-10=0/907
WEBS 2-16=-1282/0, 2-15=0/879, 3-15=-839/0, 3-14=0/454, 4-14=-547/0, 7-9=-1282/0, 7-10=0/879, 6-10=-839/0, 6-11=0/454, 5-11=-547/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F4G	FLOOR GIRDER	1	1	I49166084
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:31 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zQUnnKdS2Pn7RpkIawpPy_qVwmofoCScUJrpuSyB?3U

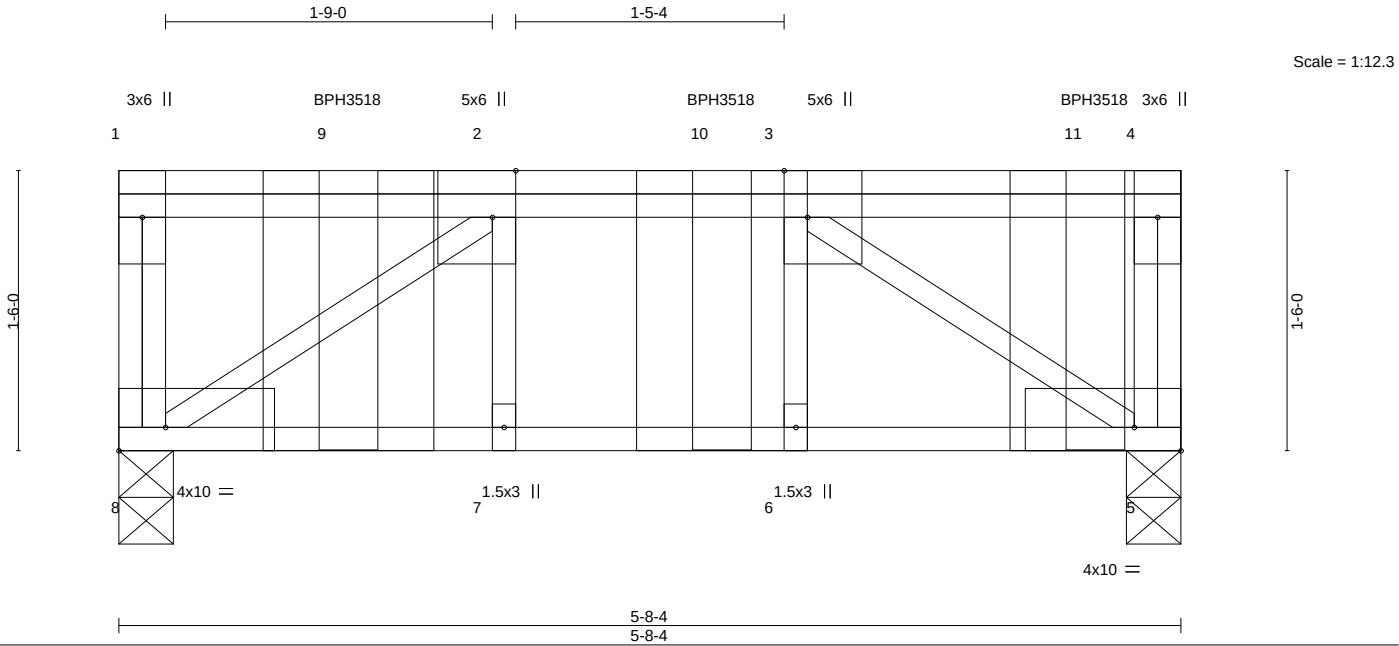


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

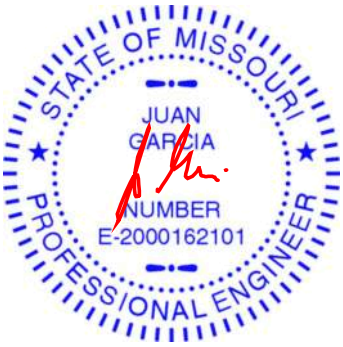
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2325(LC 1), 5=2862(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-677/0, 4-5=-1210/0, 2-3=-2469/0
BOT CHORD 7-8=0/2469, 6-7=0/2469, 5-6=0/2469
WEBS 2-8=-2982/0, 3-5=-2982/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 5-2-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-836(B) 10=-836(B) 11=-1041(B)



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

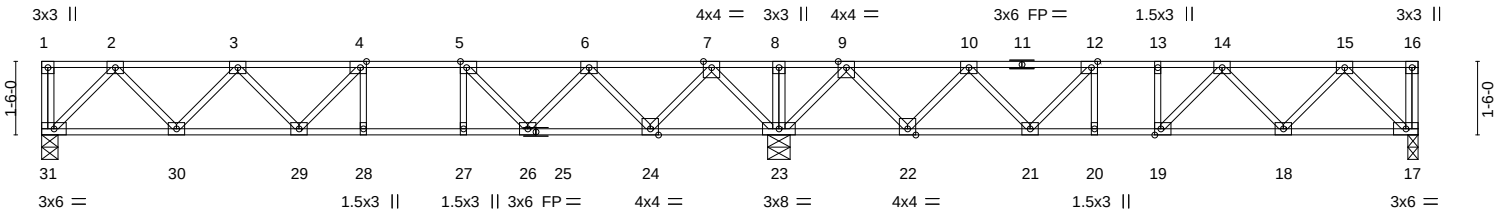
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F5	Floor	6	1	I49166085 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:32 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Rc29?ge4pjv_3zJU8dKeVBMiaA5qXe7mizbMQvyB?3T

1-3-0 1-11-0 1-2-0

Scale = 1:47.0



15-0-8 28-1-0
15-0-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.13	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.20	28-29	>915	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

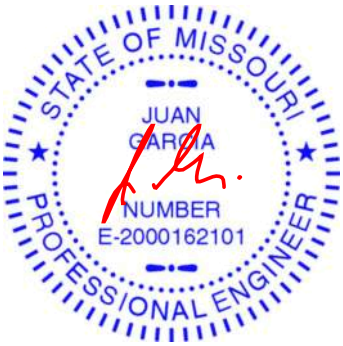
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 23=0-5-8
Max Grav 31=861(LC 3), 17=725(LC 4), 23=2133(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1294/0, 3-4=-1934/0, 4-5=-2022/0, 5-6=-1570/0, 6-7=-526/303, 7-8=0/1697, 8-9=0/1697, 9-10=-398/456, 10-12=-1212/0, 12-13=-1463/0, 13-14=-1463/0, 14-15=-1031/0
BOT CHORD 30-31=0/796, 29-30=0/1772, 28-29=0/2022, 27-28=0/2022, 26-27=0/2022, 24-26=-12/1182, 23-24=-758/0, 22-23=-755/0, 21-22=-181/952, 20-21=0/1463, 19-20=0/1463, 18-19=0/1366, 17-18=0/669
WEBS 2-31=-1125/0, 2-30=0/740, 3-30=-711/0, 7-23=-1480/0, 7-24=0/1070, 6-24=-1026/0, 6-26=0/640, 5-26=-793/0, 5-27=0/283, 4-28=-254/0, 9-23=-1336/0, 9-22=0/945, 10-22=-911/0, 10-21=0/490, 15-17=-946/0, 15-18=0/538, 14-18=-499/0, 12-21=-553/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F5G	FLOOR GIRDER	1	1	I49166086
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:32 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Rc29?ge4pjv_3zJU8dKeVBMfxA68XeZmizbMQvyB?3T

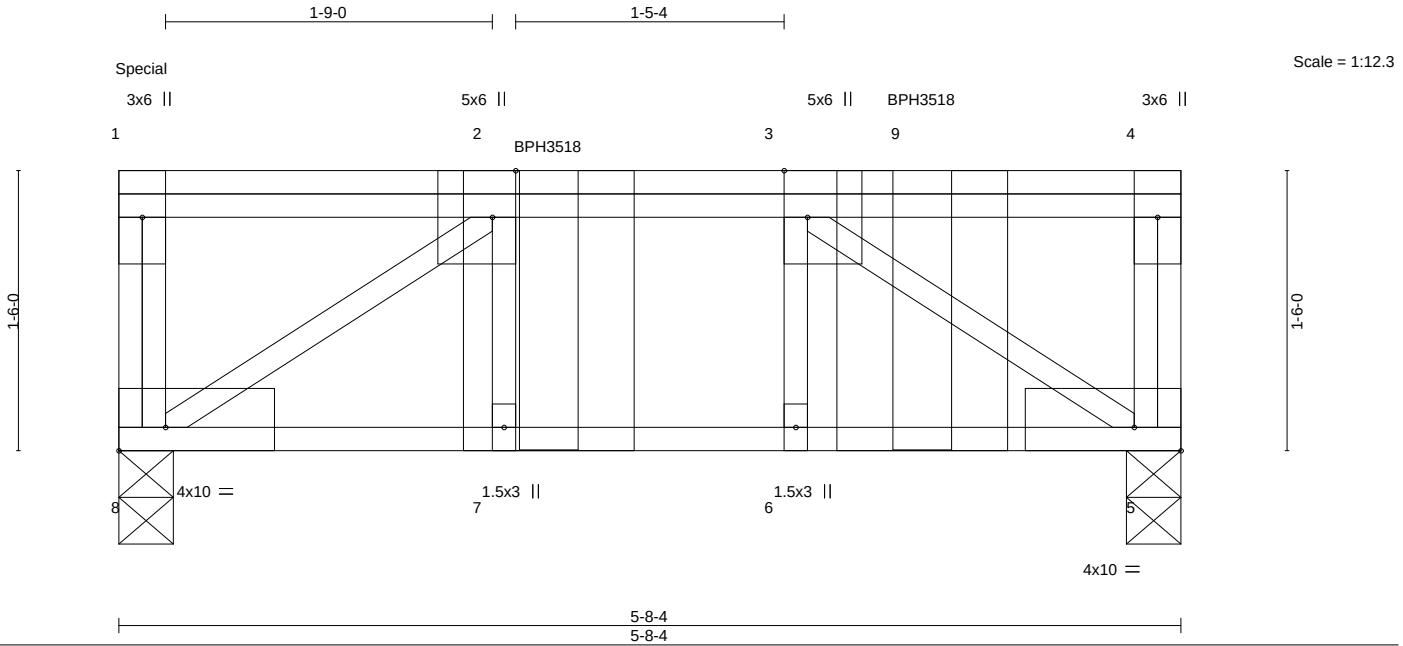


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.04	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.05	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

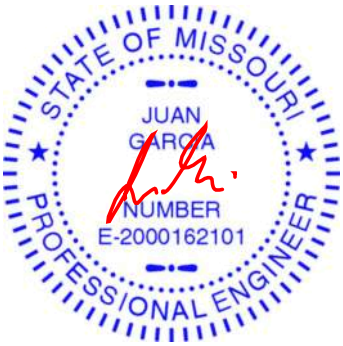
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=3164(LC 1), 5=2363(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1483/0, 4-5=-681/0, 2-3=-2515/0
BOT CHORD 7-8=0/2515, 6-7=0/2515, 5-6=0/2515
WEBS 2-8=-3038/0, 3-5=-3038/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-10 from the left end to 4-3-10 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1097 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 1=-1050(B) 2=-1001(B) 9=-1001(B)



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

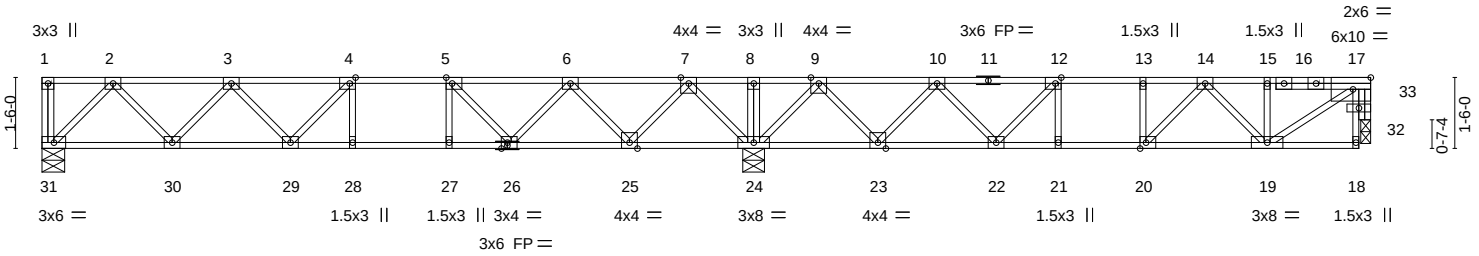
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F6	Floor	1	1	I49166087 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-O?AwPLgKLKAiIHTtF2M6acS26znD?Yc3AH4TUnyB?3R

1-3-0 1-11-0 1-8-0 1-9-0

Scale = 1:48.7



15-0-8 28-1-0
15-0-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.13	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.20	28-29	>913	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

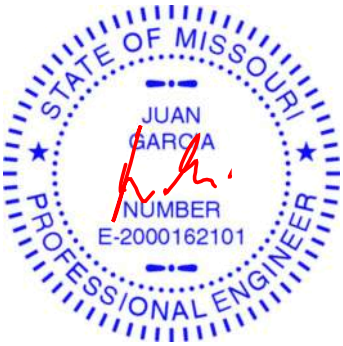
REACTIONS. (size) 31=0-5-12, 24=0-5-8, 33=0-2-8
Max Grav 31=867(LC 3), 24=2126(LC 1), 33=699(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1306/0, 3-4=-1958/0, 4-5=-2056/0, 5-6=-1615/0, 6-7=-583/326, 7-8=0/1659, 8-9=0/1659, 9-10=-373/402, 10-12=-1191/0, 12-13=-1438/0, 13-14=-1438/0, 14-15=-886/0, 15-17=-890/0
BOT CHORD	30-31=0/802, 29-30=0/1789, 28-29=0/2056, 27-28=0/2056, 26-27=0/2056, 25-26=-33/1234, 24-25=-723/0, 23-24=-759/0, 22-23=-135/929, 21-22=0/1438, 20-21=0/1438, 19-20=0/1231
WEBS	2-31=-1134/0, 2-30=0/749, 3-30=-718/0, 3-29=0/251, 4-28=-257/0, 7-24=-1482/0, 7-25=0/1072, 6-25=-1028/0, 6-26=0/643, 5-26=-798/0, 5-27=0/286, 17-19=0/979, 9-24=-1329/0, 9-23=0/937, 10-23=-903/0, 10-22=0/485, 12-22=-548/0, 14-19=-499/0, 14-20=-52/300, 17-33=-719/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F6G	FLOOR GIRDER	1	1	I49166088
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:35 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sBkIdhhy5eIZwR23pluL7q_CVN8Ek0rCOxp01DyB?3Q

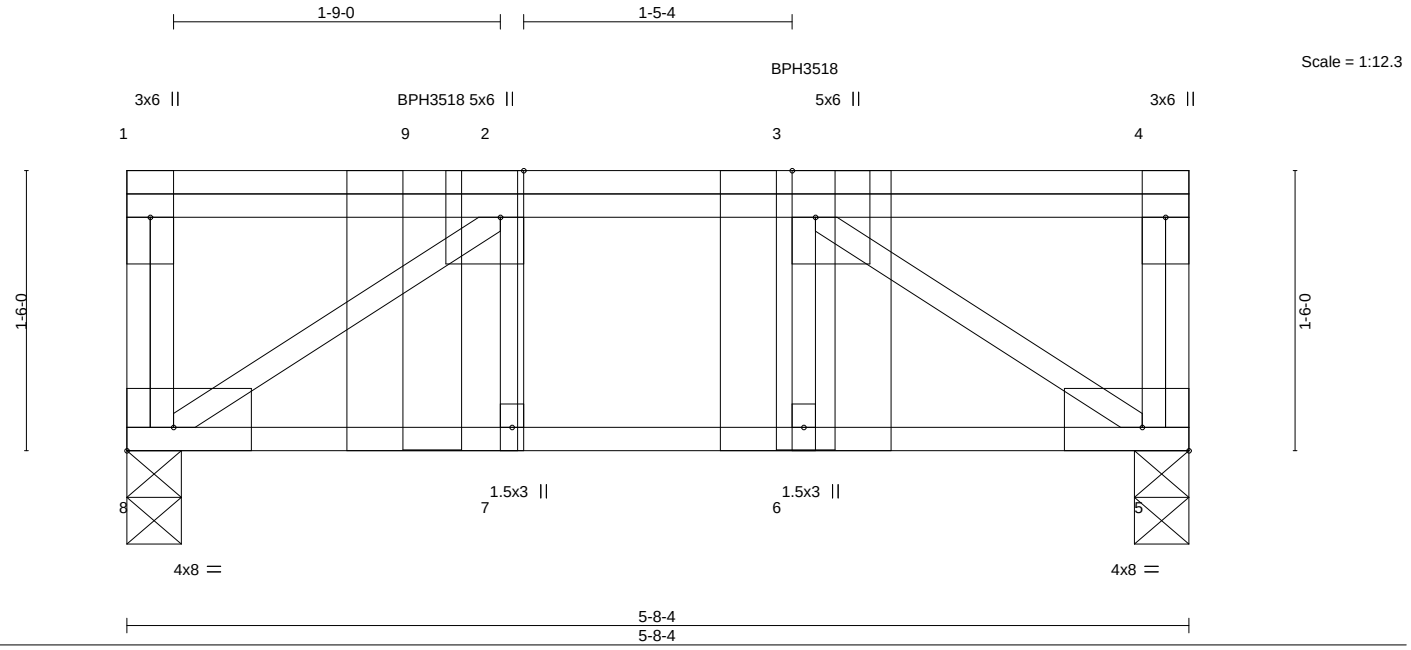


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

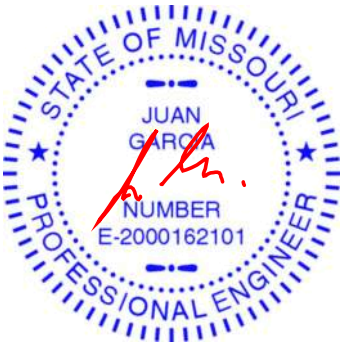
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2109(LC 1), 5=1975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-544/0, 4-5=-416/0, 2-3=-2338/0
BOT CHORD 7-8=0/2338, 6-7=0/2338, 5-6=0/2338
WEBS 2-8=-2824/0, 3-5=-2824/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 1-7-10 from the left end to connect truss(es) to front face of top chord.
6) Use USP BPH3518 (With 16d nails into Girder & 6-10d nails into Truss) or equivalent at 3-7-10 from the left end to connect truss(es) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 3=-794(F) 9=-815(F)



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F7	Floor	1	1	I49166089
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-oar22NiDdFYG9kBSxAwpCF4X5Bq9CvUVsFI756yB?3O

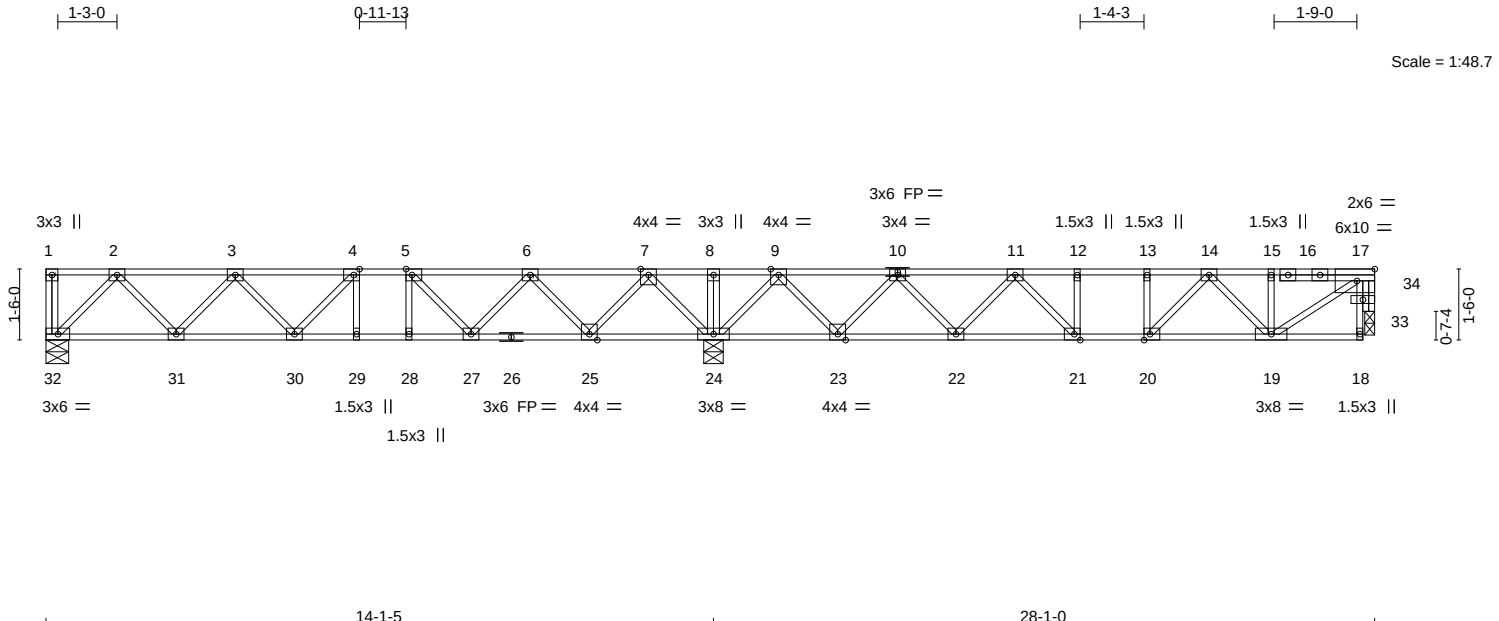


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.08	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.11	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 157 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

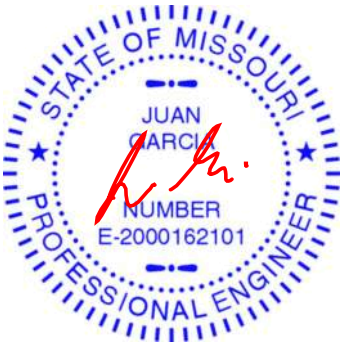
REACTIONS. (size) 32=0-5-12, 24=0-4-15, 34=0-2-8
Max Grav 32=780(LC 3), 24=2202(LC 1), 34=733(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1141/0, 3-4=-1633/0, 4-5=-1667/0, 5-6=-1287/100, 6-7=-321/642, 7-8=0/1972, 8-9=0/1972, 9-10=-188/531, 10-11=-1172/23, 11-12=-1568/0, 12-13=-1568/0, 13-14=-1568/0, 14-15=-936/0, 15-17=-939/0
BOT CHORD	31-32=0/716, 30-31=0/1543, 29-30=0/1667, 28-29=0/1667, 27-28=0/1667, 25-27=-330/945, 24-25=-981/0, 23-24=-997/0, 22-23=-227/824, 21-22=0/1487, 20-21=0/1568, 19-20=0/1312
WEBS	2-32=-1012/0, 2-31=0/631, 3-31=-598/0, 4-30=-54/254, 4-29=-271/0, 7-24=-1454/0, 7-25=0/1054, 6-25=-1014/0, 6-27=0/607, 5-27=-725/0, 5-28=0/289, 17-19=0/1035, 14-19=-545/0, 14-20=-15/372, 9-24=-1438/0, 9-23=0/1047, 10-23=-1018/0, 10-22=0/584, 11-22=-549/0, 11-21=0/435, 17-34=-753/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F7G	FLOOR GIRDER	1	1	I49166090
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:38 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GmPRFjjrOZg7numeUuR2lScjNb9pxMPe5v2hdYyB?3N

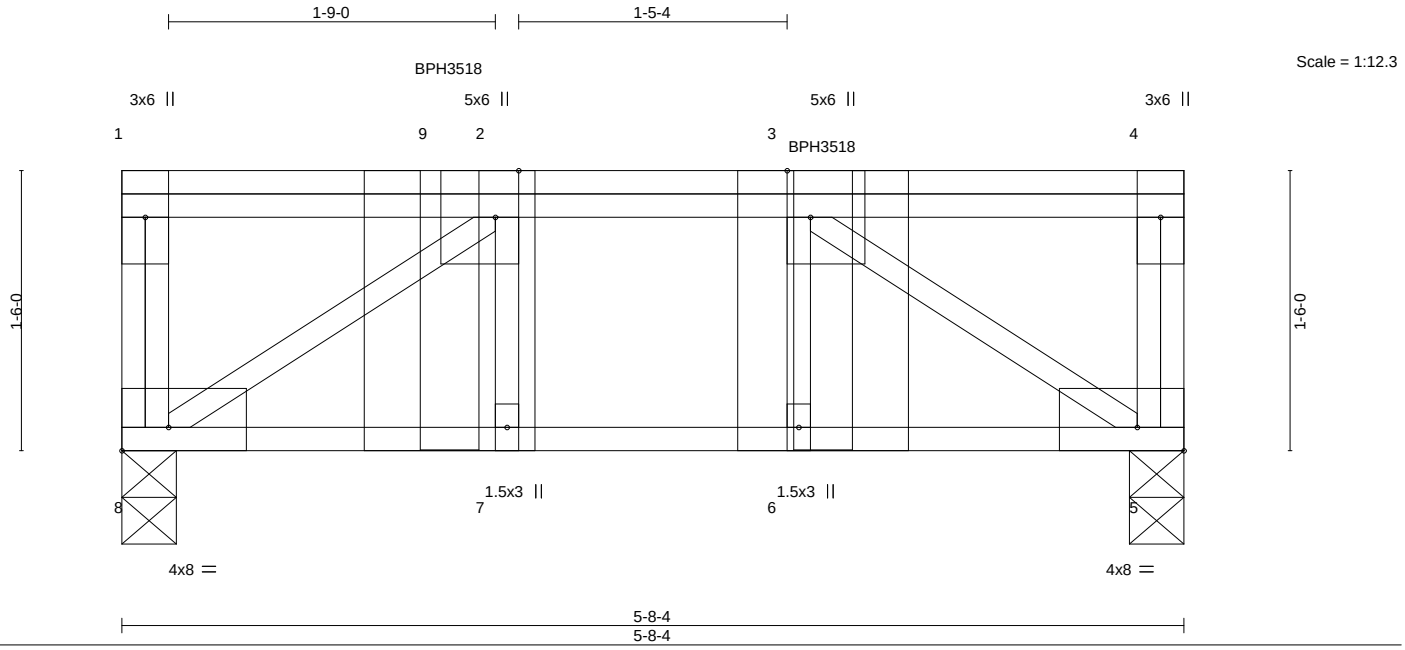


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

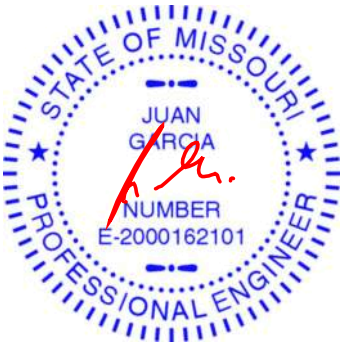
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2107(LC 1), 5=2014(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-505/0, 4-5=-417/0, 2-3=-2393/0
BOT CHORD 7-8=0/2393, 6-7=0/2393, 5-6=0/2393
WEBS 2-8=-2890/0, 3-5=-2890/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-1 from the left end to 3-9-1 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 3=-823(F) 9=-823(F)



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

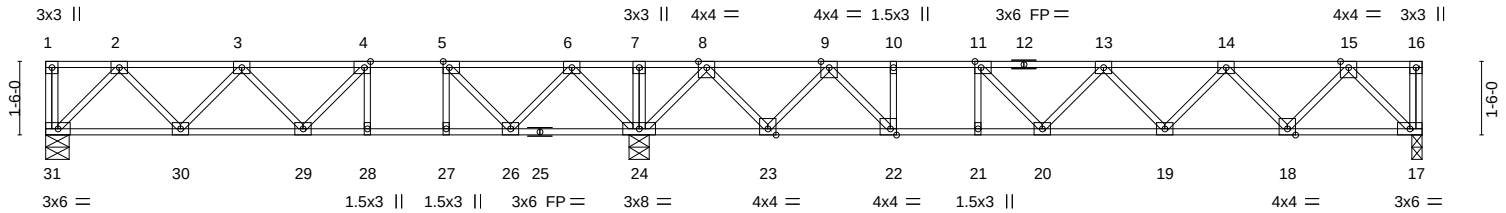
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F8	Floor	1	1	I49166091
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:39 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kyzpT3kT9so_O2Lq2byHHg9qs_VzgpBoJZnEA?yB?3M

1-3-0 1-5-13 1-7-3

Scale = 1:47.0



12-1-5 28-1-0
12-1-5 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

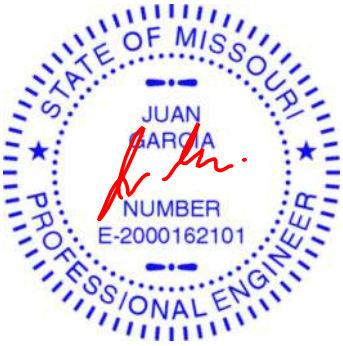
LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-26,23-24.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 24=0-4-15
Max Grav 31=723(LC 3), 17=970(LC 7), 24=1993(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1032/0, 3-4=-1417/0, 4-5=-1328/0, 5-6=-747/169, 6-7=0/1001, 7-8=0/1001, 8-9=-996/0, 9-10=-2355/0, 10-11=-2355/0, 11-13=-2593/0, 13-14=-2351/0, 14-15=-1499/0
BOT CHORD 30-31=0/655, 29-30=0/1393, 28-29=0/1328, 27-28=0/1328, 26-27=0/1328, 24-26=-423/273, 23-24=-75/339, 22-23=0/1716, 21-22=0/2355, 20-21=0/2355, 19-20=0/2642, 18-19=0/2055, 17-18=0/912
WEBS 2-31=-927/0, 2-30=0/561, 3-30=-536/0, 4-29=0/307, 4-28=-306/0, 6-24=-1092/0, 6-26=0/772, 5-26=-952/0, 5-27=0/336, 15-17=-1290/0, 15-18=0/872, 14-18=-827/0, 14-19=0/439, 13-19=-434/0, 11-20=0/485, 11-21=-396/0, 8-24=-1459/0, 8-23=0/1014, 9-23=-1115/0, 9-22=0/1025, 10-22=-418/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

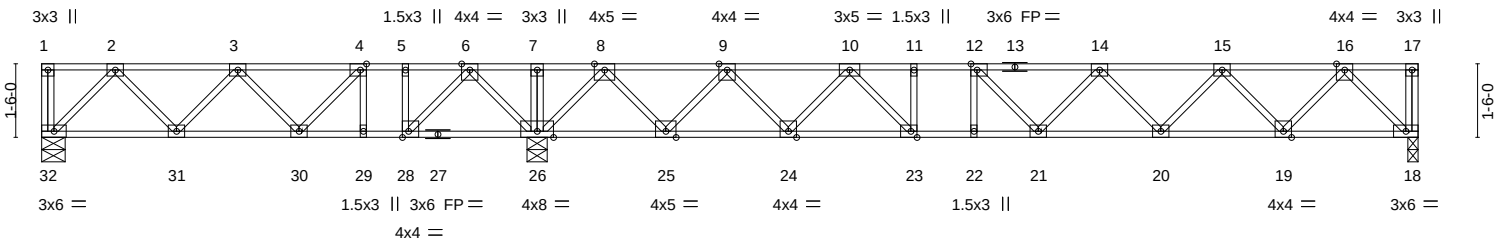
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F9	Floor	1	1	I49166092
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:40 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-C9XBgPk5wAwr0Cw1cITWqth_bOpCPDvxYDXniRyB?3L

1-3-0 0-8-13 1-1-3

Scale = 1:47.0



10-1-5 28-1-0
10-1-5 17-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.17	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.27	21-22	>784	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

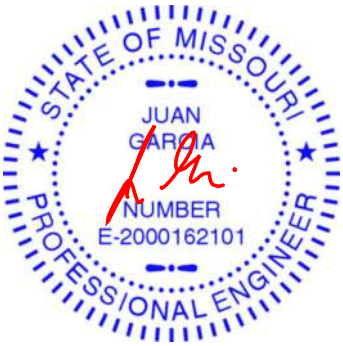
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
18-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-5-12, 18=0-2-8, 26=0-4-15
Max Uplift 32=-13(LC 4)
Max Grav 32=528(LC 3), 18=1013(LC 4), 26=2241(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-661/152, 3-4=-693/537, 4-5=-417/917, 5-6=-417/917, 6-7=0/1991, 7-8=0/1991, 9-10=-1676/0, 10-11=-2718/0, 11-12=-2718/0, 12-14=-2833/0, 14-15=-2511/0, 15-16=-1581/0
BOT CHORD 31-32=-45/461, 30-31=-277/845, 29-30=-917/417, 28-29=-917/417, 26-28=-1425/0, 25-26=-758/0, 24-25=0/1110, 23-24=0/2263, 22-23=0/2718, 21-22=0/2718, 20-21=0/2832, 19-20=0/2180, 18-19=0/954
WEBS 2-32=-652/64, 2-31=-159/297, 3-31=-273/185, 3-30=-477/0, 4-30=0/719, 4-29=-424/0, 6-26=-1182/0, 8-26=-1745/0, 8-25=0/1365, 9-25=-1298/0, 9-24=0/850, 10-24=-885/0, 10-23=0/799, 16-18=-1350/0, 16-19=0/932, 15-19=-890/0, 15-20=0/493, 14-20=-476/0, 12-21=-122/348, 12-22=-306/0, 11-23=-315/0, 6-28=0/1156, 5-28=-489/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

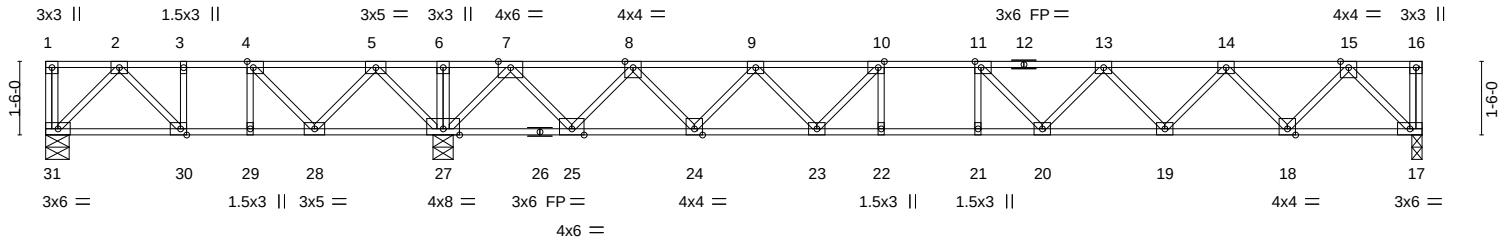
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F10	Floor	1	1	I49166093
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:36 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4rf?EWzy?VswLM1jssKVEN237b0LPG0WqF0PS8yB?4L

1-3-0 1-2-13 1-10-3

Scale = 1:47.0



8-1-5 28-1-0
8-1-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	20-21	>662	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

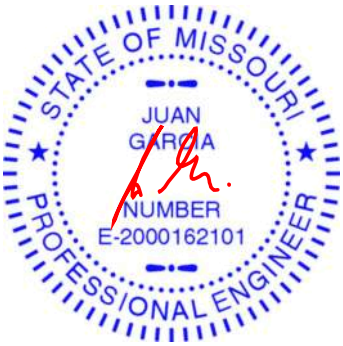
LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 27=0-4-15
Max Uplift 31=-133(LC 4)
Max Grav 31=343(LC 3), 17=1158(LC 7), 27=2326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-304/528, 3-4=-304/528, 4-5=0/1039, 5-6=0/2155, 6-7=0/2155, 7-8=-447/73, 8-9=-2124/0, 9-10=-3192/0, 10-11=-3681/0, 11-13=-3633/0, 13-14=-3047/0, 14-15=-1856/0
BOT CHORD 30-31=-170/265, 29-30=-528/304, 28-29=-528/304, 27-28=-1448/0, 25-27=-803/0, 24-25=0/1429, 23-24=0/2786, 22-23=0/3681, 21-22=0/3681, 20-21=0/3681, 19-20=0/3494, 18-19=0/2586, 17-18=0/1098
WEBS 2-31=-375/241, 2-30=-518/57, 5-27=-1103/0, 5-28=0/793, 4-28=-911/0, 4-29=0/253, 15-17=-1553/0, 15-18=0/1127, 14-18=-1086/0, 14-19=0/684, 13-19=-665/0, 13-20=0/319, 11-20=-335/239, 11-21=-316/65, 7-27=-1913/0, 7-25=0/1507, 8-25=-1486/0, 8-24=0/1058, 9-24=-1006/0, 9-23=0/665, 10-23=-891/0, 10-22=-34/346

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=133.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F11	Floor	6	1	I49166094
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Y1DNSs_amp_nyWcwQarkmbaDQ?MN8jvg3vmy_byB?4K

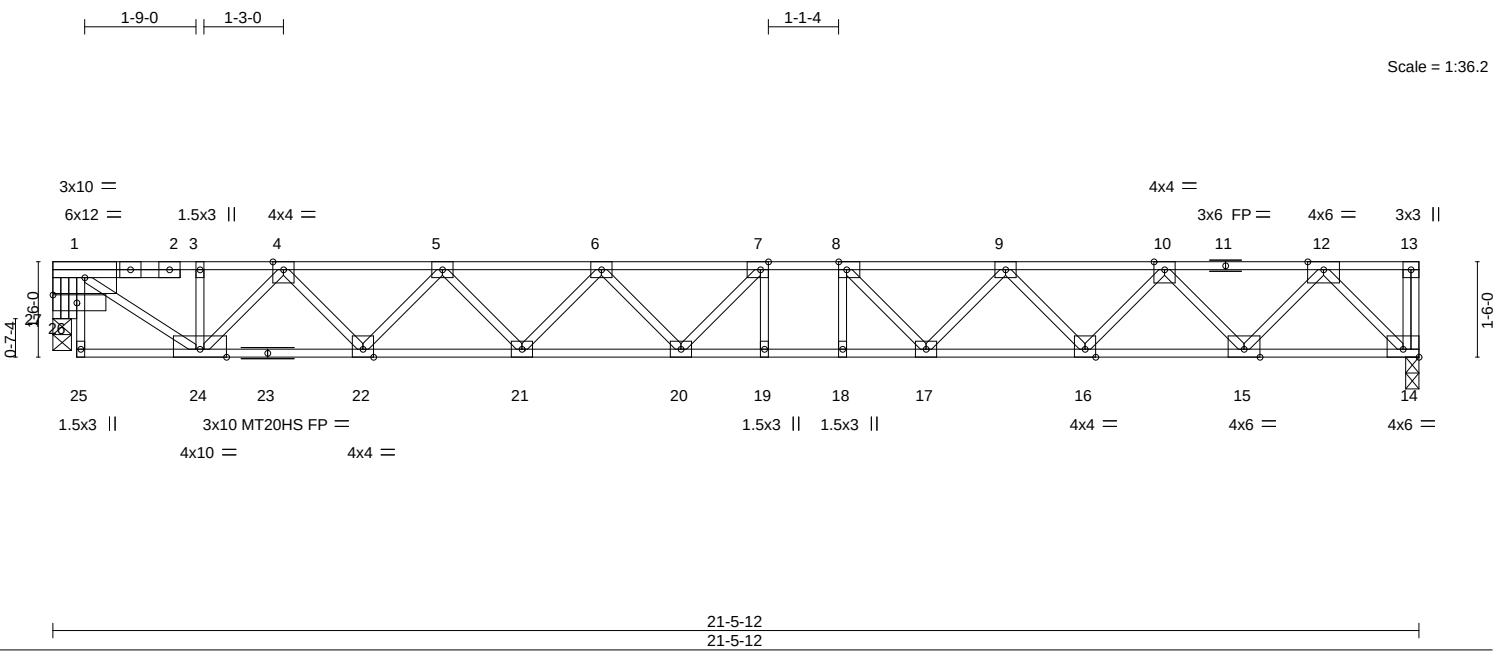

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [14:Edge,0-1-8], [26:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.32	19-20	>792	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.52	19-20	>487	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-24: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 27=0-3-8
Max Grav 14=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1883/0, 3-4=-1880/0, 4-5=-3583/0, 5-6=-4691/0, 6-7=-5190/0, 7-8=-5224/0, 8-9=-4823/0, 9-10=-3848/0, 10-12=-2266/0
BOT CHORD	22-24=0/2868, 21-22=0/4274, 20-21=0/5092, 19-20=0/5224, 18-19=0/5224, 17-18=0/5224, 16-17=0/4471, 15-16=0/3198, 14-15=0/1311
WEBS	1-24=0/2080, 12-14=-1854/0, 12-15=0/1420, 10-15=-1385/0, 10-16=0/967, 9-16=-926/0, 9-17=0/615, 8-17=-771/0, 4-24=-1431/0, 4-22=0/1062, 5-22=-1027/0, 5-21=0/621, 6-21=-595/0, 6-20=-71/346, 7-20=-394/271, 7-19=-305/137, 8-18=-116/325, 1-27=-1394/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 9,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

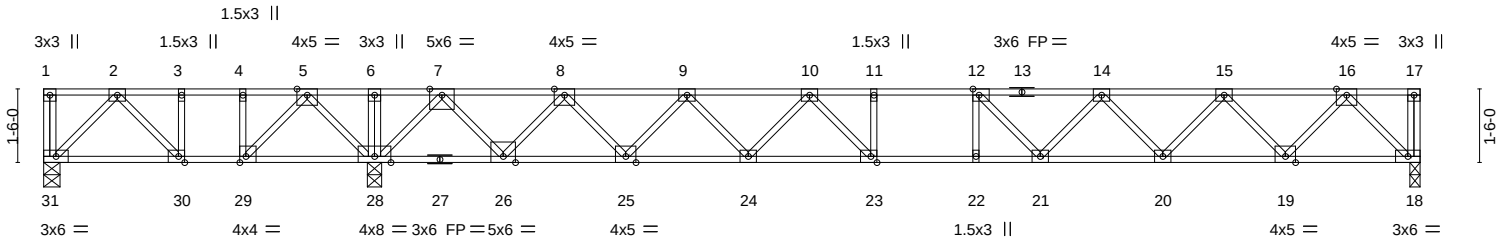
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F12	Floor	2	1	I49166095
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:38 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1DnlfC_CX76eagB6_HMzJo7OdPjtt8UpIZVVX1yB?4J

1-3-0 1-1-8 1-11-8

Scale = 1:47.0



6-9-0 28-1-0
6-9-0 21-4-0

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.24	22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.39	22	>645	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

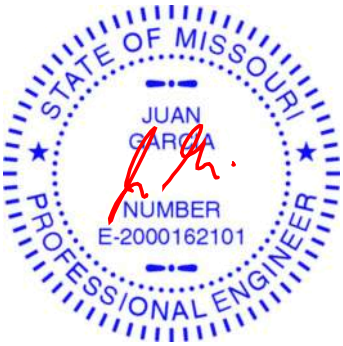
LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
18-27: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 18=0-2-8, 28=0-3-8
Max Uplift 31=-301(LC 4)
Max Grav 31=237(LC 3), 18=1236(LC 7), 28=2435(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-48/921, 3-4=-48/921, 4-5=-48/921, 5-6=0/2329, 6-7=0/2329, 7-8=-351/0, 8-9=-2201/0, 9-10=-3440/0, 10-11=-4229/0, 11-12=-4229/0, 12-14=-4065/0, 14-15=-3336/0, 15-16=-2004/0
BOT CHORD 30-31=-329/161, 29-30=-921/48, 28-29=-1659/0, 26-28=-888/0, 25-26=0/1416, 24-25=0/2963, 23-24=0/3915, 22-23=0/4229, 21-22=0/4229, 20-21=0/3848, 19-20=0/2807, 18-19=0/1175
WEBS 16-18=-1662/0, 16-19=0/1233, 15-19=-1193/0, 15-20=0/787, 14-20=-761/0, 14-21=0/445, 12-21=-503/97, 7-28=-2038/0, 7-26=0/1645, 8-26=-1598/0, 8-25=0/1182, 9-25=-1144/0, 9-24=0/721, 10-24=-722/0, 10-23=0/753, 11-23=-357/0, 2-31=-228/465, 2-30=-858/0, 3-30=0/479, 5-28=-1122/0, 5-29=0/1227, 4-29=-694/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=301.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F13	Floor	6	1	I49166096
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:39 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VPL7tY?qHQEVCqmIX?tCs0gjLpBXclsyWDF33TyB?4I

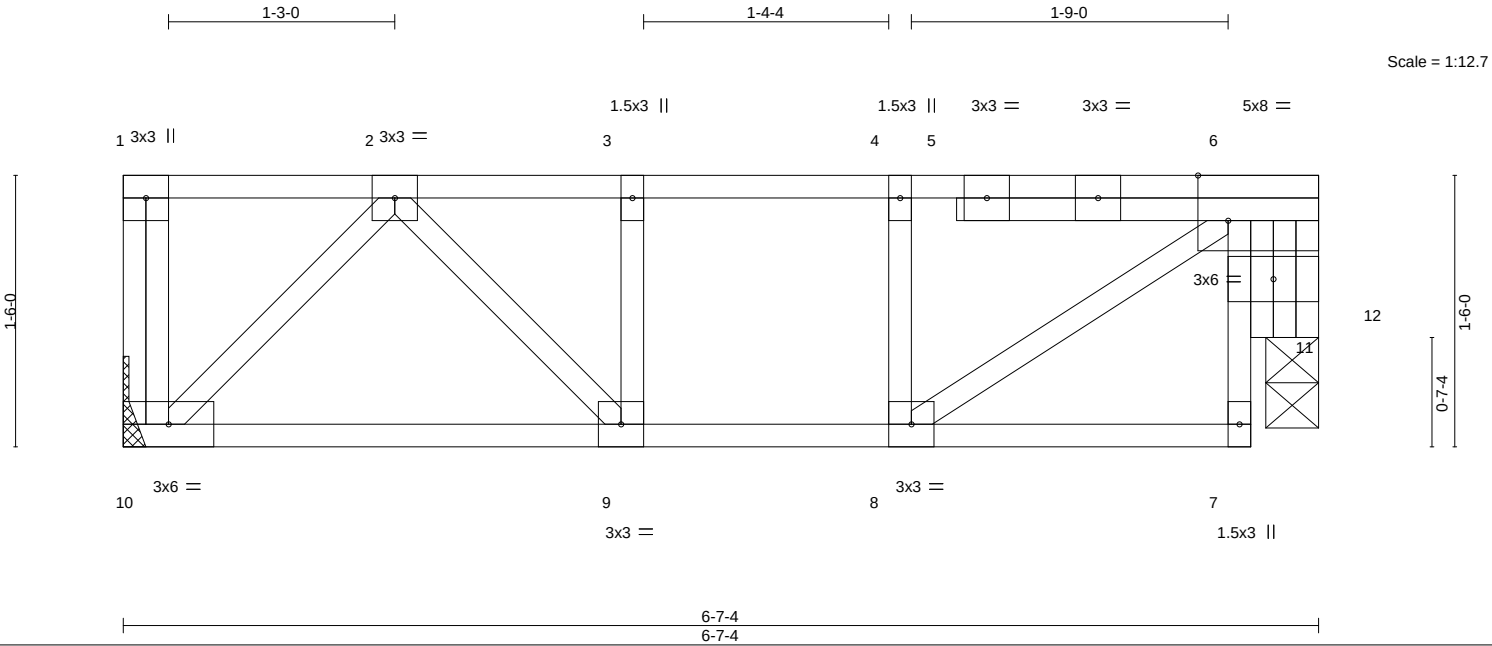


Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

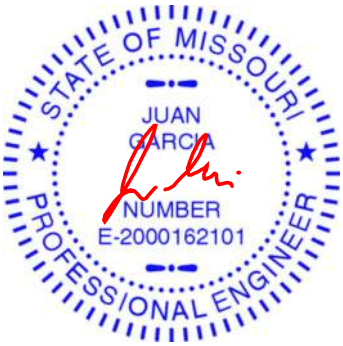
REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=406(LC 1), 12=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-448/0, 3-4=-448/0, 4-6=-450/0
BOT CHORD	9-10=0/327, 8-9=0/448
WEBS	2-10=-462/0, 6-8=0/477, 6-12=-397/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

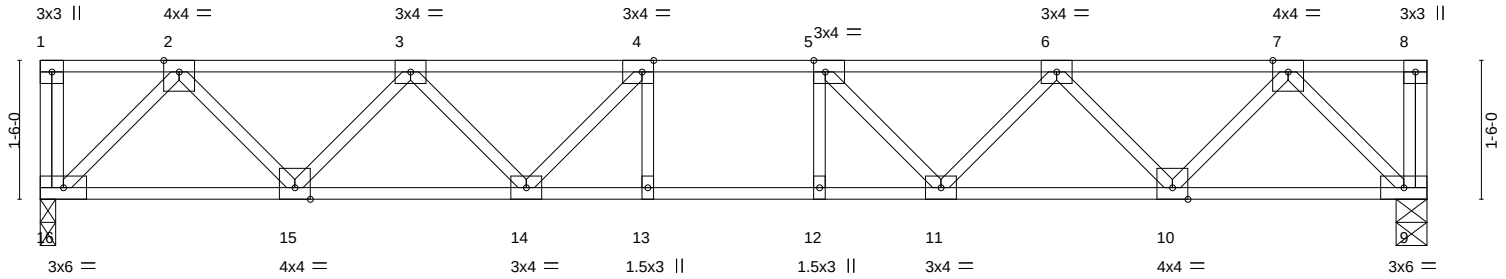
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F14	Floor	3	1	I49166097
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:40 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zcvV4u0S2kMMp_LV5iORODCskCLKL8n6lt_cbvyB?4H

1-3-0 1-8-12

Scale = 1:24.9



14-11-12
14-11-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.11	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.17	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-4-0
Max Grav 16=957(LC 1), 9=957(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1477/0, 3-4=-2295/0, 4-5=-2552/0, 5-6=-2295/0, 6-7=-1477/0
BOT CHORD 15-16=0/896, 14-15=0/2033, 13-14=0/2552, 12-13=0/2552, 11-12=0/2552, 10-11=0/2033, 9-10=0/896
WEBS 2-16=-1267/0, 2-15=0/865, 3-15=-826/0, 3-14=0/440, 4-14=-521/0, 7-9=-1267/0, 7-10=0/865, 6-10=-826/0, 6-11=0/440, 5-11=-521/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

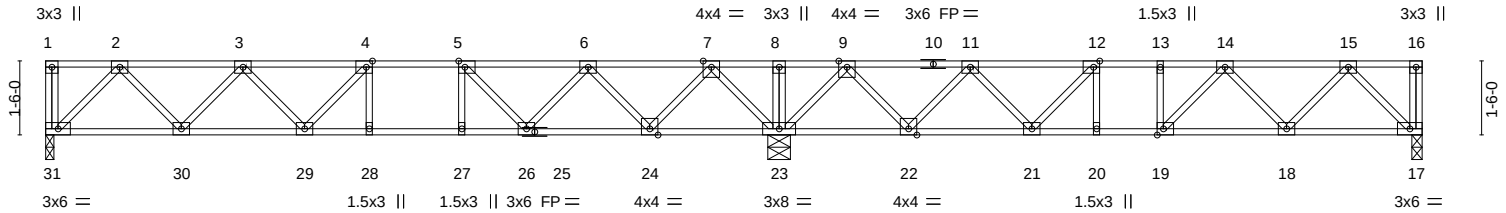
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F15	Floor	6	1	I49166098
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:41 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-RoTuIE15p2UDR8vhfPwgxRl_Tchf4aZF_XkA7MyB?4G

1-3-0 1-9-0 1-2-0

Scale = 1:46.7



14-10-8 27-11-0
14-10-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.11	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.18	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=847(LC 3), 17=722(LC 4), 23=2130(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1268/0, 3-4=-1883/0, 4-5=-1961/0, 5-6=-1524/0, 6-7=-496/333, 7-8=0/1691, 8-9=0/1691, 9-11=-374/467, 11-12=-1195/0, 12-13=-1450/0, 13-14=-1450/0, 14-15=-1025/0
BOT CHORD 30-31=0/782, 29-30=0/1734, 28-29=0/1961, 27-28=0/1961, 26-27=0/1961, 24-26=-42/1146, 23-24=-763/0, 22-23=-768/0, 21-22=-191/931, 20-21=0/1450, 19-20=0/1450, 18-19=0/1358, 17-18=0/666
WEBS 2-31=-1106/0, 2-30=0/722, 3-30=-692/0, 7-23=-1470/0, 7-24=0/1063, 6-24=-1019/0, 6-26=0/628, 5-26=-776/0, 5-27=0/284, 4-28=-257/0, 15-17=-941/0, 15-18=0/534, 14-18=-494/0, 9-23=-1335/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 12-21=-557/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F16	Floor	1	1	I49166099
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:43 2021 Page 1
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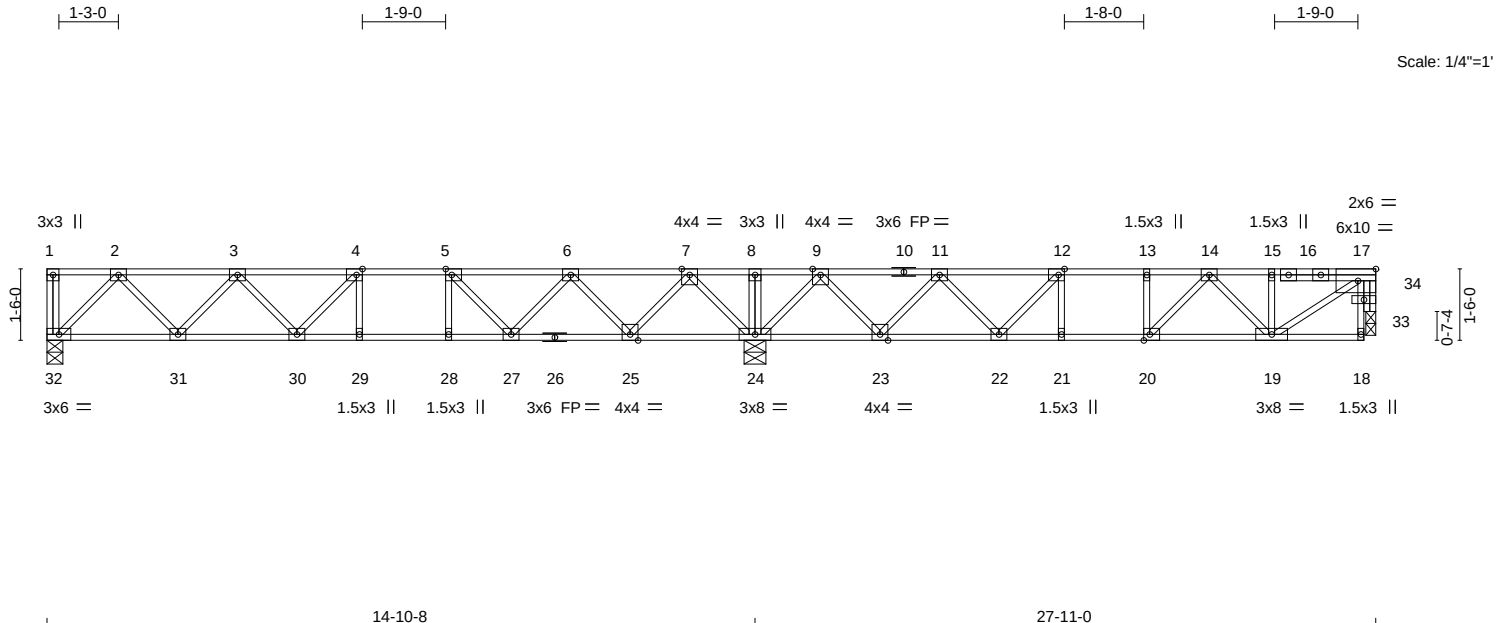

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.11	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.18	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 18-26: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 24=0-5-8, 34=0-2-8
Max Grav 32=854(LC 3), 24=2122(LC 1), 34=696(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1282/0, 3-4=-1910/0, 4-5=-1999/0, 5-6=-1572/0, 6-7=-559/355, 7-8=0/1653, 8-9=0/1653, 9-11=-351/408, 11-12=-1174/0, 12-13=-1426/0, 13-14=-1426/0, 14-15=-882/0, 15-17=-885/0
BOT CHORD	31-32=0/790, 30-31=0/1753, 29-30=0/1999, 28-29=0/1999, 27-28=0/1999, 25-27=-61/1202, 24-25=-726/0, 23-24=-783/0, 22-23=-140/910, 21-22=0/1426, 20-21=0/1426, 19-20=0/1224
WEBS	2-32=-1117/0, 2-31=0/732, 3-31=-701/0, 4-29=-259/0, 7-24=-1471/0, 7-25=0/1064, 6-25=-1020/0, 6-27=0/629, 5-27=-782/0, 5-28=0/287, 9-24=-1328/0, 9-23=0/936, 11-23=-902/0, 11-22=0/483, 12-22=-550/0, 17-19=0/974, 14-19=-495/0, 14-20=-54/293, 17-34=-716/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

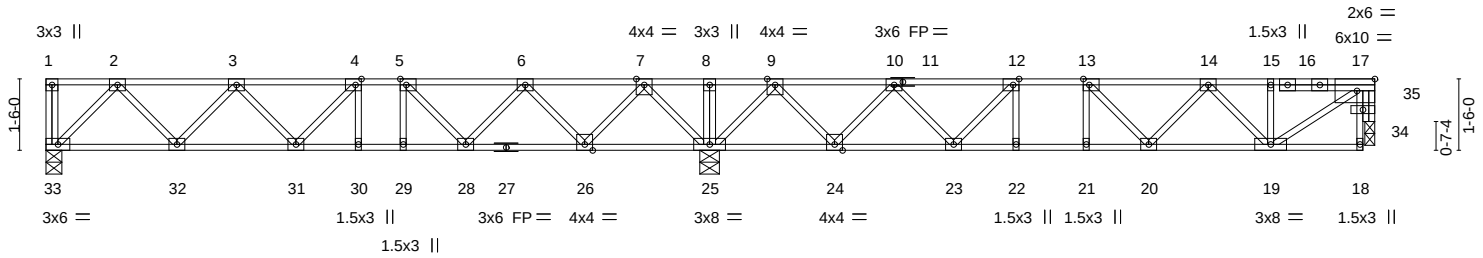
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F17	Floor	1	1	I49166100
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:45 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-JZiO7b4btG_fwlDSuF_c5Hwg2D3y0Ourv9iNH7yB?4C

1-3-0 0-9-13 1-4-3 1-9-0

Scale: 1/4"=1'



13-11-5 27-11-0
13-11-5 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.07	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.12	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	35	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

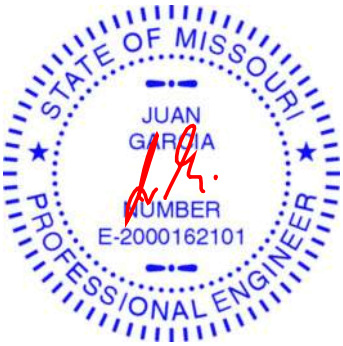
REACTIONS. (size) 33=0-4-0, 25=0-4-15, 35=0-2-8
Max Grav 33=776(LC 3), 25=2153(LC 1), 35=753(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1133/0, 3-4=-1619/0, 4-5=-1659/0, 5-6=-1306/0, 6-7=-372/485, 7-8=0/1767, 8-9=0/1767, 9-10=-351/463, 10-12=-1291/0, 12-13=-1656/0, 13-14=-1554/0, 14-15=-954/0, 15-17=-957/0
BOT CHORD	32-33=0/713, 31-32=0/1531, 30-31=0/1659, 29-30=0/1659, 28-29=0/1659, 26-28=-191/982, 25-26=-809/0, 24-25=-864/0, 23-24=-173/962, 22-23=0/1656, 21-22=0/1656, 20-21=0/1656, 19-20=0/1399
WEBS	2-33=-1008/0, 2-32=0/625, 3-32=-591/0, 4-30=-252/2, 7-25=-1413/0, 7-26=0/1016, 6-26=-978/0, 6-28=0/563, 5-28=-659/0, 5-29=0/268, 17-19=0/1051, 9-25=-1415/0, 9-24=0/1016, 10-24=-975/0, 10-23=0/569, 12-23=-684/0, 14-19=-645/0, 12-22=0/252, 17-35=-775/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 35 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

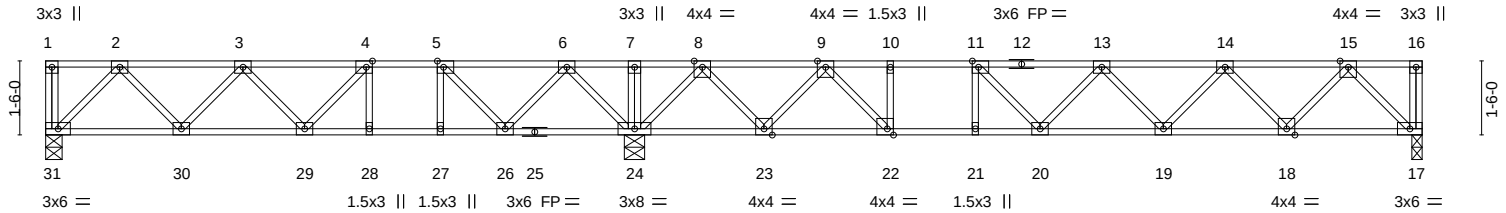
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F18	Floor	1	1	I49166101
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:46 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-omGmLx5Dea7WXvoeSzVreUSnCdRMlrz_7pRxpZyB?4B

1-3-0 1-3-13 1-7-3

Scale = 1:46.7



11-11-5 27-11-0
11-11-5 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

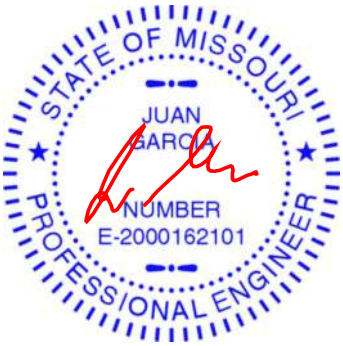
LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-26,23-24.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 24=0-4-15
Max Grav 31=704(LC 3), 17=962(LC 7), 24=2000(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-996/0, 3-4=-1347/0, 4-5=-1248/0, 5-6=-679/215, 6-7=0/1038, 7-8=0/1038, 8-9=-915/0, 9-10=-2295/0, 10-11=-2295/0, 11-13=-2547/0, 13-14=-2320/0, 14-15=-1483/0
BOT CHORD 30-31=0/637, 29-30=0/1339, 28-29=0/1248, 27-28=0/1248, 26-27=0/1248, 24-26=-469/210, 23-24=-132/251, 22-23=0/1644, 21-22=0/2295, 20-21=0/2295, 19-20=0/2605, 18-19=0/2032, 17-18=0/904
WEBS 2-31=-901/0, 2-30=0/535, 3-30=-509/0, 4-29=0/327, 4-28=-310/0, 6-24=-1096/0, 6-26=0/768, 5-26=-936/0, 5-27=0/338, 15-17=-1278/0, 15-18=0/860, 14-18=-816/0, 14-19=0/428, 13-19=-424/0, 11-20=0/498, 11-21=-402/0, 8-24=-1464/0, 8-23=0/1018, 9-23=-1120/0, 9-22=0/1039, 10-22=-423/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

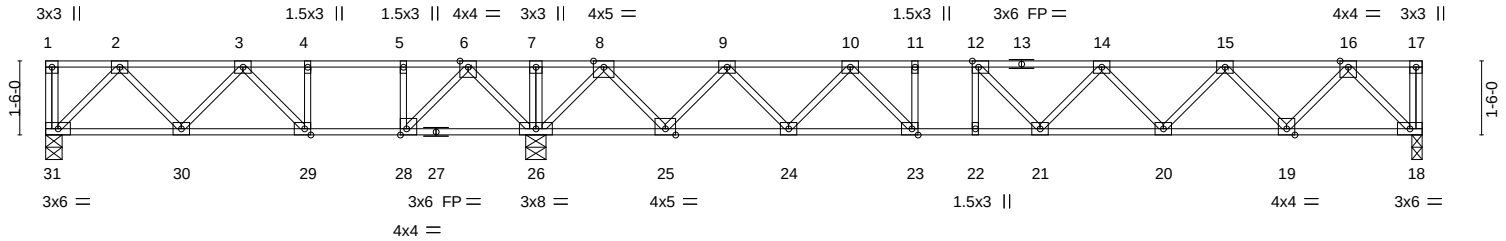
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F19	Floor	1	1	I49166102
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Gyq9YH5rPuFM93Nr?g04Ai?_y1lEUGK8MTBUL?yB?4A

1-3-0 1-9-13 1-1-3

Scale = 1:46.7



9-11-5 27-11-0
9-11-5 17-11-11

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [23:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.17	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.27	21-22	>788	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.06	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

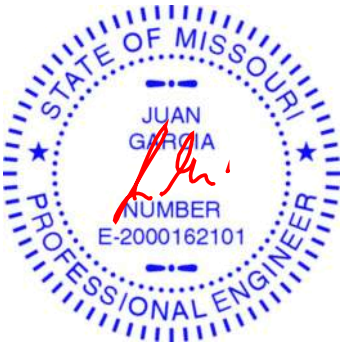
LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 18=0-2-8, 26=0-4-15
Max Grav 31=593(LC 3), 18=1082(LC 7), 26=2044(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-794/0, 3-4=-838/378, 4-5=-838/378, 5-6=-838/378, 6-7=0/1329, 7-8=0/1329, 8-9=-1003/0, 9-10=-2316/0, 10-11=-3200/0, 11-12=-3200/0, 12-14=-3212/0, 14-15=-2767/0, 15-16=-1712/0
BOT CHORD 30-31=0/538, 29-30=-62/991, 28-29=-378/838, 26-28=-866/271, 24-25=0/1810, 23-24=0/2829, 22-23=0/3200, 21-22=0/3200, 20-21=0/3145, 19-20=0/2374, 18-19=0/1023
WEBS 2-31=-760/0, 2-30=-32/382, 3-30=-292/129, 3-29=-526/0, 6-26=-968/0, 6-28=0/1101, 5-28=-628/0, 16-18=-1446/0, 16-19=0/1025, 15-19=-984/0, 15-20=0/584, 14-20=-562/0, 14-21=-60/256, 8-26=-1663/0, 8-25=0/1293, 9-25=-1235/0, 9-24=0/786, 10-24=-801/0, 10-23=0/711, 11-23=-315/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

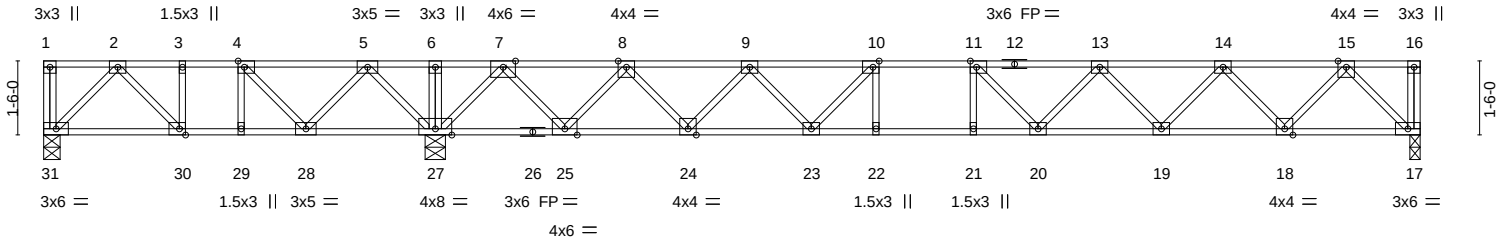
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F20	Floor	1	1	I49166103
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:57 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ztRxeiD72yVyMb8mbnCQapPfo3BBql9cf0c0iQyB?40

1-3-0 1-0-13 1-10-3

Scale = 1:46.7



7-11-5 27-11-0
7-11-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	20-21	>666	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

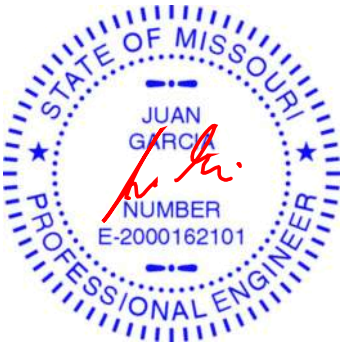
LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-26: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 27=0-4-15
Max Uplift 31=-166(LC 4)
Max Grav 31=324(LC 3), 17=1149(LC 7), 27=2349(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/587, 3-4=-268/587, 4-5=0/1116, 5-6=0/2252, 6-7=0/2252, 7-8=-335/95, 8-9=-2028/0, 9-10=-3112/0, 10-11=-3617/0, 11-13=-3583/0, 13-14=-3013/0, 14-15=-1839/0
BOT CHORD 29-30=-587/268, 28-29=-587/268, 27-28=-1546/0, 25-27=-892/0, 24-25=0/1325, 23-24=0/2697, 22-23=0/3617, 21-22=0/3617, 20-21=0/3617, 19-20=0/3453, 18-19=0/2561, 17-18=0/1089
WEBS 2-31=-349/286, 2-30=-557/31, 5-27=-1128/0, 5-28=0/811, 4-28=-924/0, 4-29=0/261, 3-30=-29/263, 15-17=-1540/0, 15-18=0/1115, 14-18=-1074/0, 14-19=0/673, 13-19=-654/0, 13-20=0/309, 11-20=-319/247, 11-21=-320/57, 7-27=-1923/0, 7-25=0/1516, 8-25=-1495/0, 8-24=0/1067, 9-24=-1014/0, 9-23=0/671, 10-23=-900/0, 10-22=-26/351

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=166.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F21	Floor	6	1	I49166104
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:58 2021 Page 1
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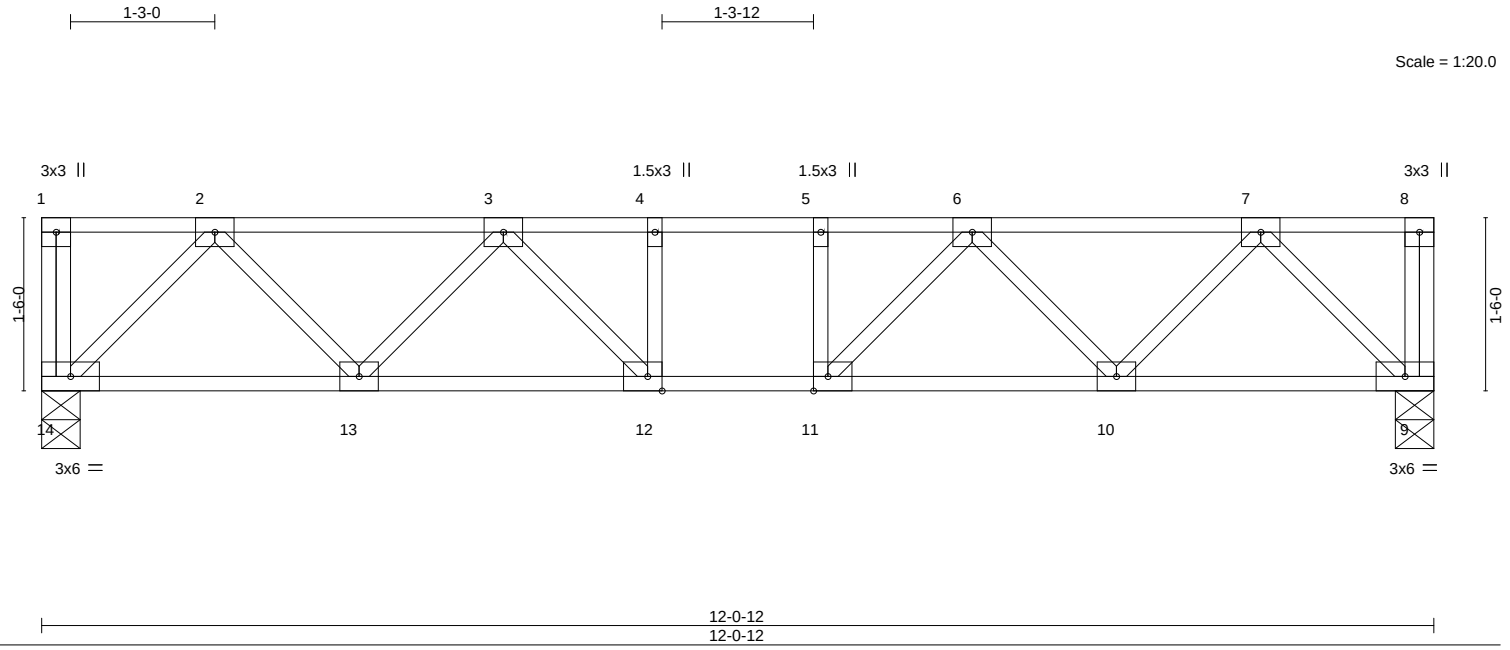


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

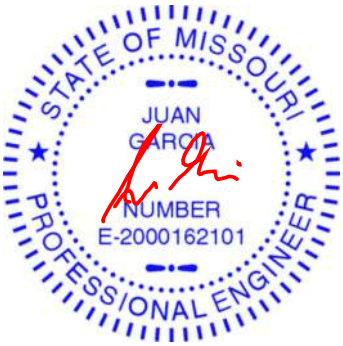
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F22	FLOOR	5	1	I49166105
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:58 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-R3?Js2ElpGdp_ljy9Ujf70yqmTVuZBZlugLZEtyB?4?

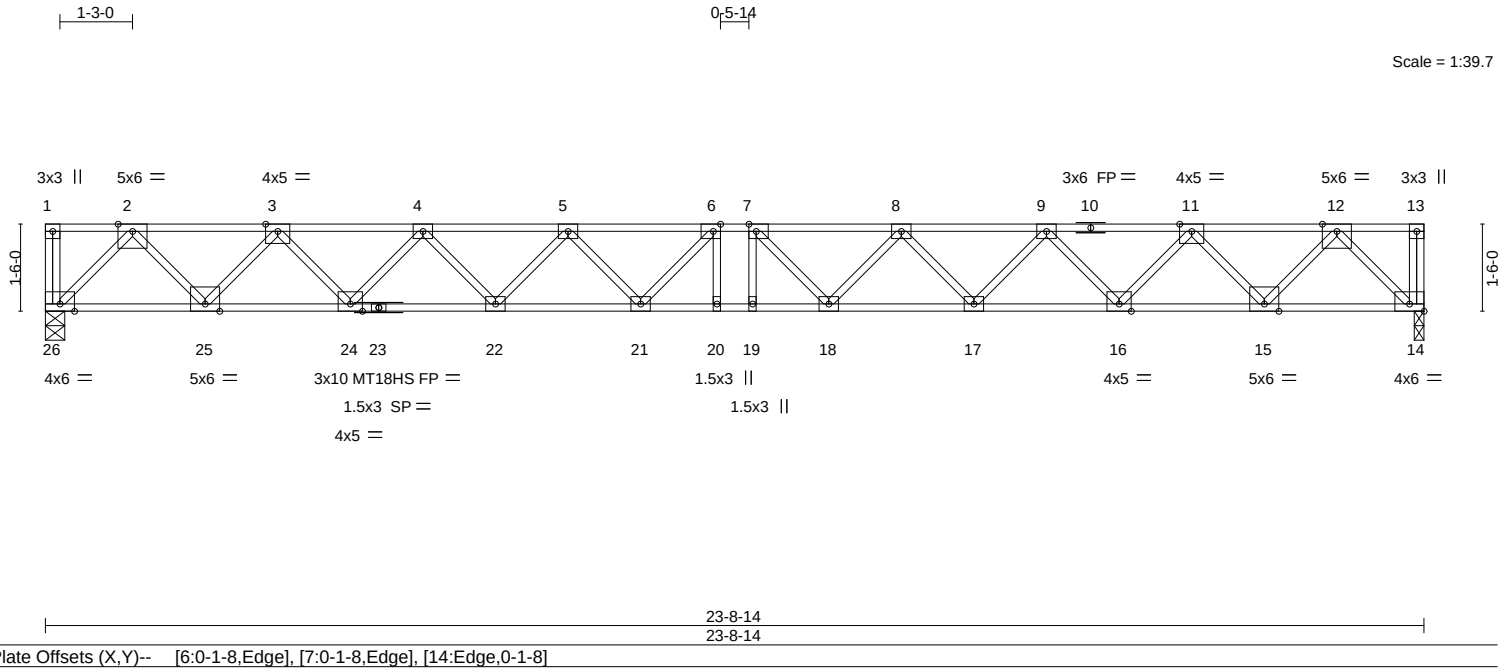


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.46	20	>607	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.75	20	>374	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

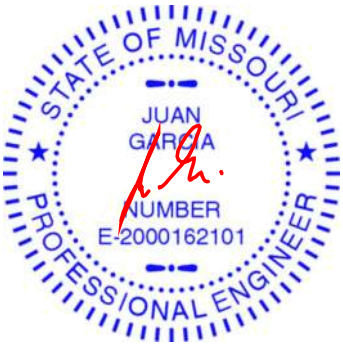
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-4-0, 14=0-2-0
Max Grav 26=1527(LC 1), 14=1527(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2560/0, 3-4=-4417/0, 4-5=-5684/0, 5-6=-6352/0, 6-7=-6533/0, 7-8=-6352/0, 8-9=-5685/0, 9-11=-4417/0, 11-12=-2559/0
BOT CHORD 25-26=0/1465, 24-25=0/3629, 22-24=0/5184, 21-22=0/6161, 20-21=0/6533, 19-20=0/6533, 18-19=0/6533, 17-18=0/6161, 16-17=0/5185, 15-16=0/3629, 14-15=0/1465
WEBS 2-26=-2071/0, 2-25=0/1628, 3-25=-1590/0, 3-24=0/1172, 4-24=-1140/0, 4-22=0/743, 5-22=-709/0, 5-21=-28/464, 12-14=-2071/0, 12-15=0/1628, 11-15=-1590/0, 11-16=0/1172, 9-16=-1141/0, 9-17=0/744, 8-17=-708/0, 8-18=-28/464, 7-18=-525/134, 6-21=-525/134

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

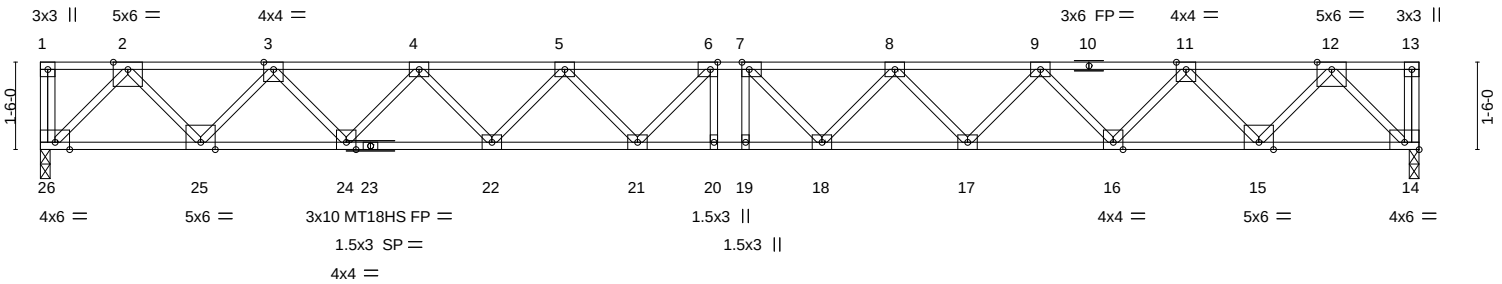
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F23	Floor	12	1	I49166106
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:47:59 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vGYh3NFNaalfbvH8iBEufEV?ptrFIerv7K57mJyB?4_

1-3-0 0-5-0

Scale = 1:39.6



23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>613	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.75	20	>377	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

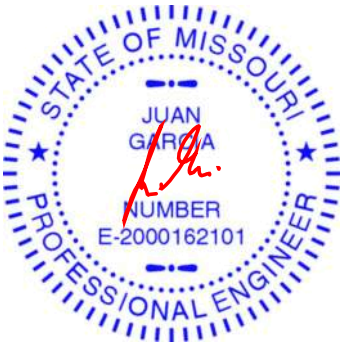
LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2551/0, 3-4=-4400/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5659/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 24-25=0/3616, 22-24=0/5162, 21-22=0/6130, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2065/0, 2-25=0/1622, 3-25=-1583/0, 3-24=0/1166, 4-24=-1134/0, 4-22=0/737, 5-22=-703/0, 5-21=-33/458, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

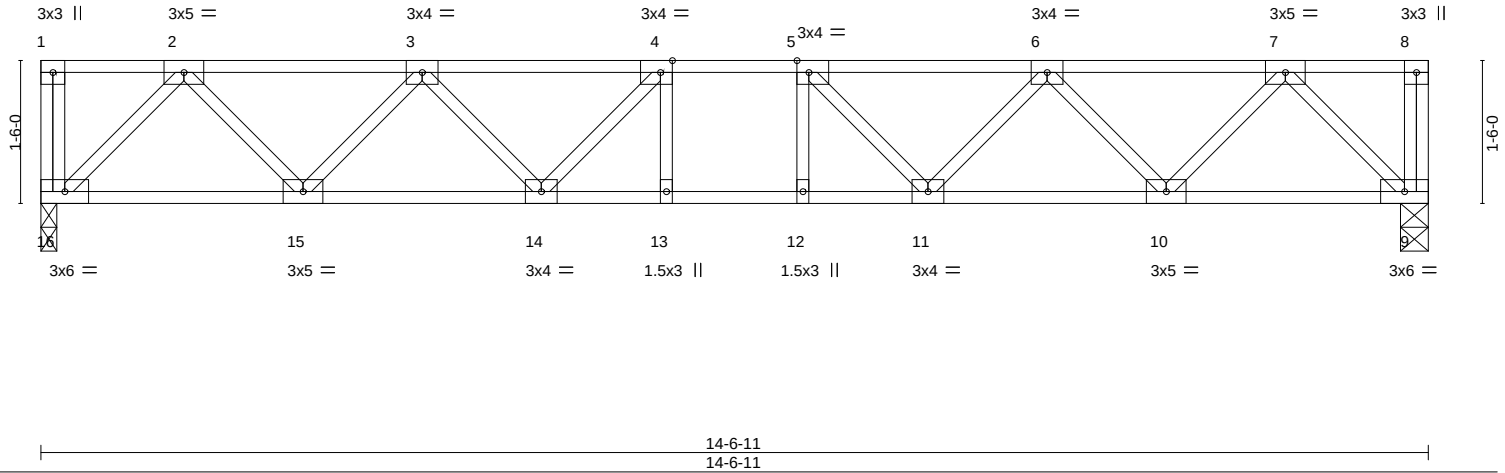
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F24	Floor	5	1	I49166107
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NS63HjF?LttWD2sLGvl7CR1HwGBt1B?2L_qgHlyB?3z

1-3-0 1-3-11

Scale: 1/2"=1'



14-6-11
14-6-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

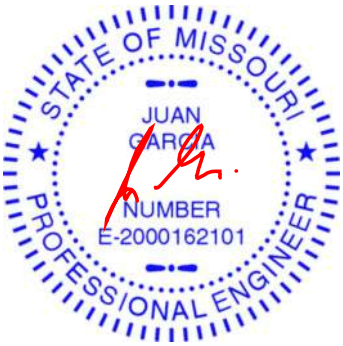
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1426/0, 3-4=-2191/0, 4-5=-2419/0, 5-6=-2191/0, 6-7=-1426/0
BOT CHORD 15-16=0/868, 14-15=0/1957, 13-14=0/2419, 12-13=0/2419, 11-12=0/2419, 10-11=0/1957, 9-10=0/868
WEBS 2-16=-1228/0, 2-15=0/829, 3-15=-790/0, 3-14=0/398, 4-14=-461/0, 7-9=-1228/0, 7-10=0/829, 6-10=-790/0, 6-11=0/398, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

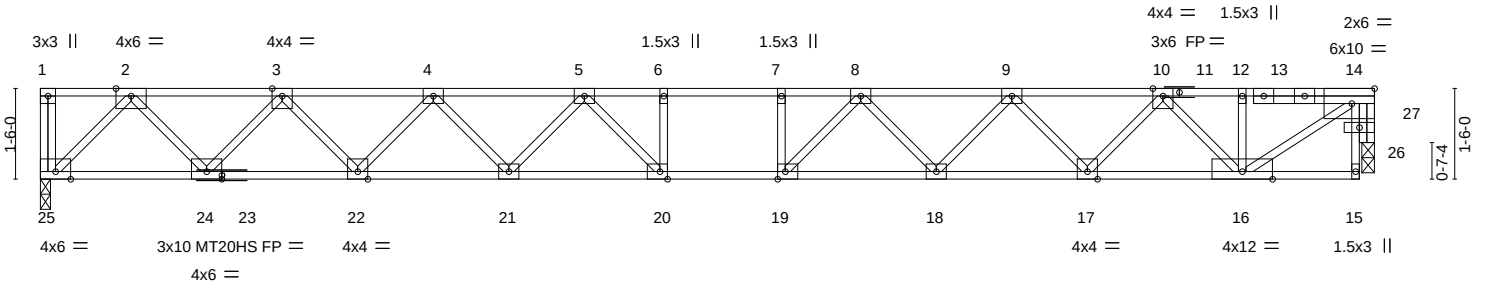
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F25	Floor	2	1	I49166108
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KrEqiPHGtV8ESM0jOKobHs7Ww4t6V0fLpIJnMeyB?3x

1-3-0 | 1-9-14 | 1-9-0

Scale = 1:38.1



22-0-14
22-0-14

Plate Offsets (X,Y)-- [14:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	20	>743	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.57	20	>457	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
15-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
14-16: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

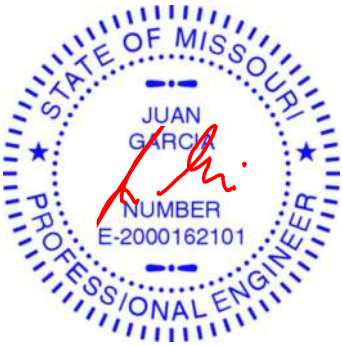
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-2-0, 27=0-2-8
Max Grav 25=1417(LC 1), 27=1396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2351/0, 3-4=-4009/0, 4-5=-5075/0, 5-6=-5575/0, 6-7=-5575/0, 7-8=-5575/0, 8-9=-4894/0, 9-10=-3710/0, 10-12=-1910/0, 12-14=-1914/0
BOT CHORD 24-25=0/1355, 22-24=0/3319, 21-22=0/4682, 20-21=0/5436, 19-20=0/5575, 18-19=0/5325, 17-18=0/4449, 16-17=0/2945
WEBS 2-25=-1917/0, 2-24=0/1480, 3-24=-1440/0, 3-22=0/1026, 4-22=-999/0, 14-16=0/2142, 10-16=-1499/0, 10-17=0/1137, 9-17=-1099/0, 9-18=0/662, 8-18=-643/0, 8-19=-83/722, 4-21=0/585, 5-21=-567/0, 5-20=-199/607, 6-20=-311/25, 7-19=-360/0, 14-27=-1431/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25, 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

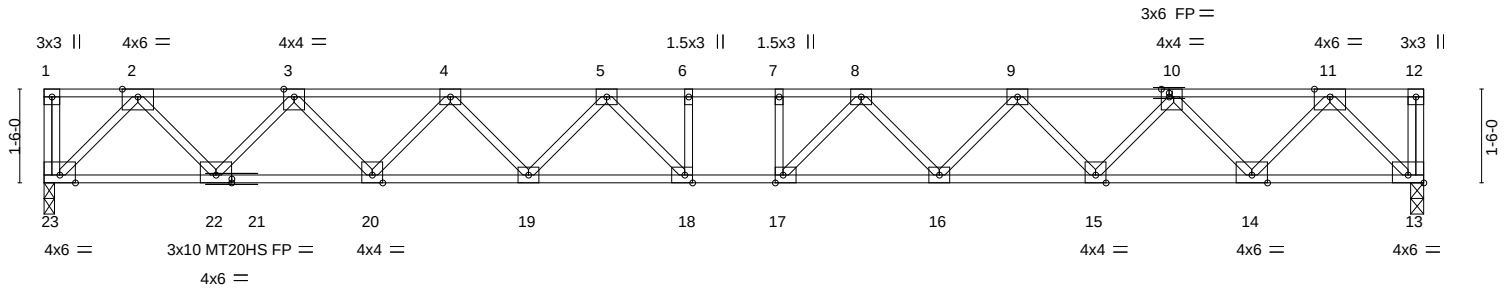
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F26	Floor	5	1	I49166109
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:02 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KrEqiPHGtV8ESM0jOKobHs7Xh4t5V0eLpIJnMeyB?3x

1-3-0 1-3-14

Scale = 1:36.9



22-0-14
22-0-14

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [13:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.37	17-18	>704	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.60	17-18	>434	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

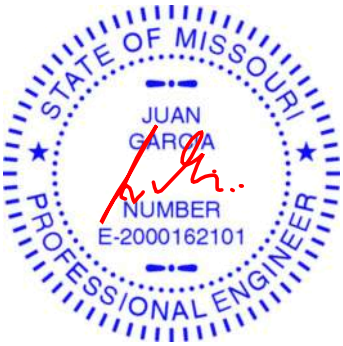
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=0-2-0, 13=0-2-8
Max Grav 23=1418(LC 1), 13=1418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2353/0, 3-4=-4015/0, 4-5=-5080/0, 5-6=-5598/0, 6-7=-5598/0, 7-8=-5598/0, 8-9=-5080/0, 9-10=-4016/0, 10-11=-2353/0
BOT CHORD 22-23=0/1357, 20-22=0/3324, 19-20=0/4687, 18-19=0/5448, 17-18=0/5598, 16-17=0/5448, 15-16=0/4687, 14-15=0/3323, 13-14=0/1357
WEBS 2-23=-1919/0, 2-22=0/1482, 3-22=-1442/0, 3-20=0/1028, 4-20=-999/0, 4-19=0/584, 5-19=-569/0, 11-13=-1919/0, 11-14=0/1481, 10-14=-1442/0, 10-15=0/1029, 9-15=-998/0, 9-16=0/583, 8-16=-569/0, 8-17=-177/575, 5-18=-177/575, 6-18=-272/21, 7-17=-272/21

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23, 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F27	Floor	5	1	I49166110
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-o1oCvIIueoG54Wbwx1Jqq4fplUI7EaFU1y3Ku4yB?3w

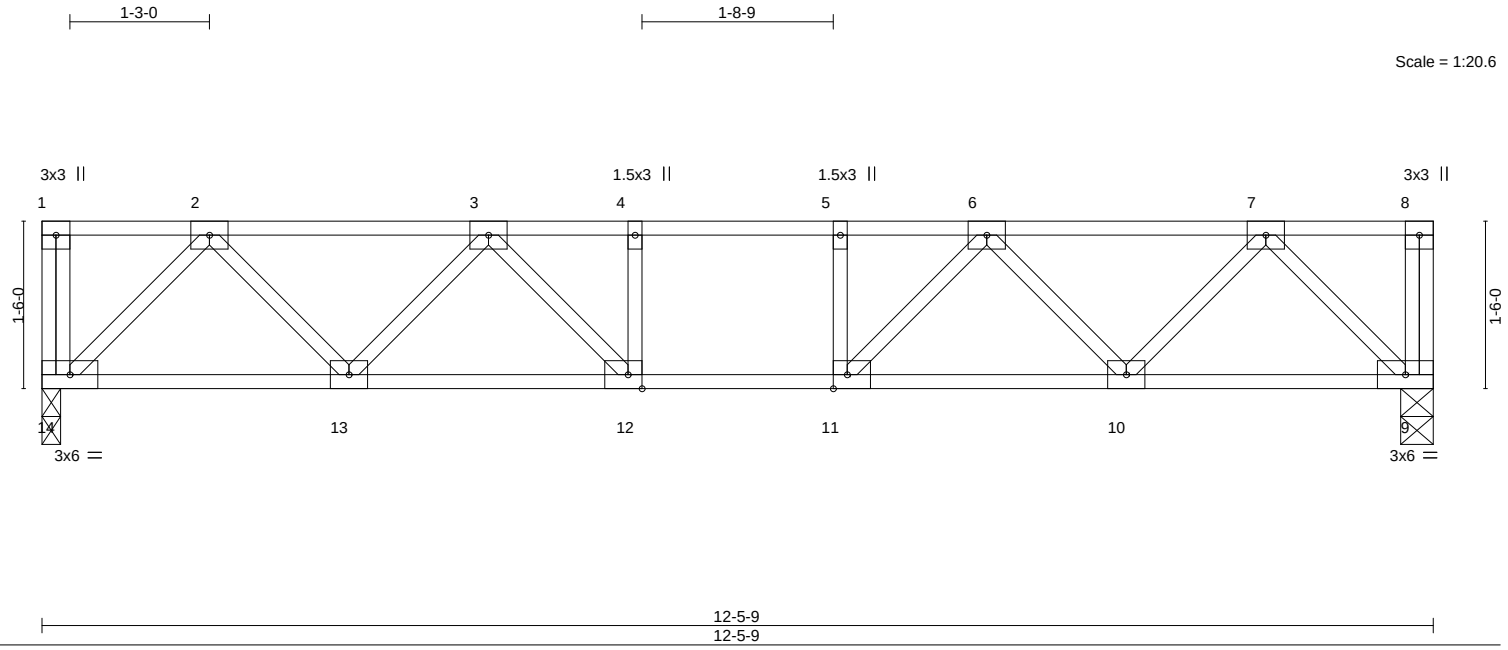


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

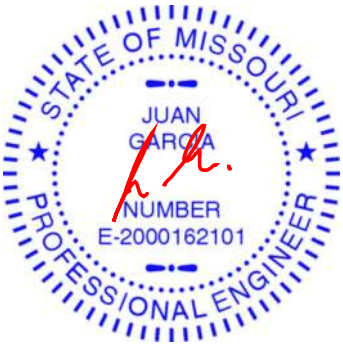
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-3-8
Max Grav 14=794(LC 1), 9=794(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1161/0, 3-4=-1737/0, 4-5=-1737/0, 5-6=-1737/0, 6-7=-1161/0
BOT CHORD 13-14=0/738, 12-13=0/1556, 11-12=0/1737, 10-11=0/1556, 9-10=0/738
WEBS 2-14=-1044/0, 2-13=0/628, 3-13=-588/0, 3-12=0/430, 7-9=-1044/0, 7-10=0/628, 6-10=-588/0, 6-11=0/430

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

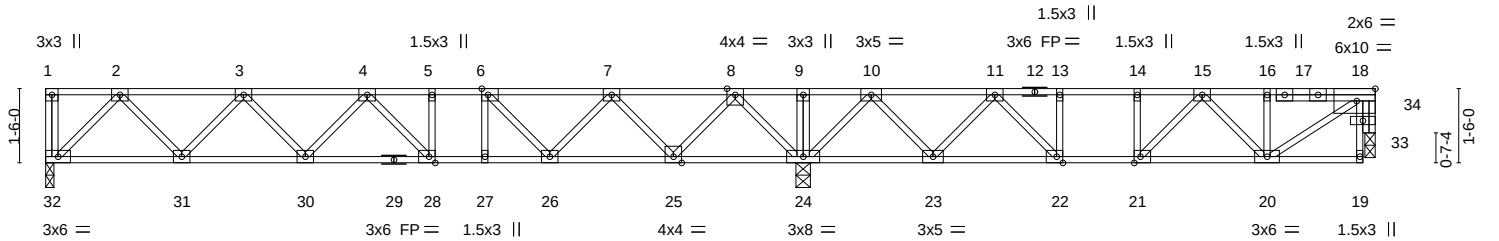
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F28	Floor	2	1	I49166111
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:05 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kQwyKRJ8AQWpJqlI3SLIvVl43HvdiQHnVGYRzzyB?3u

1-3-0 0-11-5 1-5-5 1-9-0

Scale = 1:46.6



15-3-13 26-10-10
15-3-13 11-6-13

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.10	28-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.17	28-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

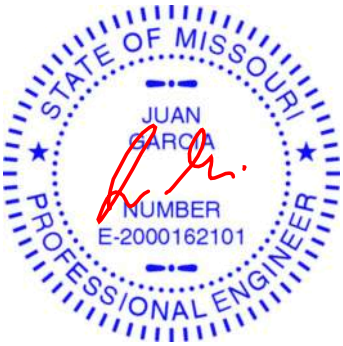
REACTIONS. (size) 32=0-2-0, 24=0-3-8, 34=0-2-8
Max Grav 32=874(LC 3), 24=2060(LC 1), 34=611(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1316/0, 3-4=-1997/0, 4-5=-2029/0, 5-6=-2029/0, 6-7=-1582/0, 7-8=-496/162, 8-9=0/1603, 9-10=0/1603, 10-11=-352/563, 11-13=-1085/11, 13-14=-1085/11, 14-15=-1085/11, 15-16=-760/0, 16-18=-763/0
BOT CHORD	31-32=0/813, 30-31=0/1798, 28-30=0/2154, 27-28=0/2029, 26-27=0/2029, 25-26=0/1176, 24-25=-543/0, 23-24=-840/0, 22-23=-284/811, 21-22=-11/1085, 20-21=0/1016
WEBS	2-32=-1149/0, 2-31=0/748, 3-31=-717/0, 3-30=0/296, 8-24=-1499/0, 8-25=0/1090, 7-25=-1053/0, 7-26=0/652, 6-26=-733/0, 4-28=-388/58, 18-20=0/834, 15-20=-371/17, 10-24=-1212/0, 10-23=0/790, 11-23=-800/0, 11-22=0/657, 13-22=-336/0, 18-34=-629/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32, 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

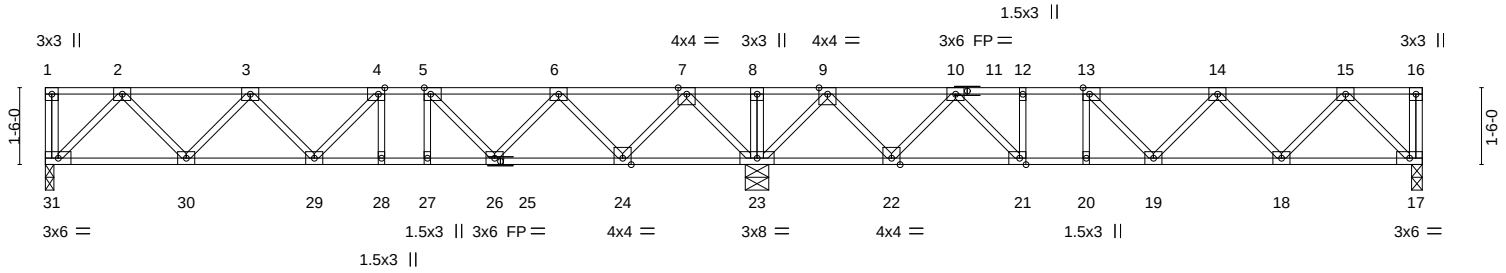
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F29	Floor	5	1	I49166112
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:06 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CcTKXnKmxjegxzKUd9sXSiHF2hDlRuOxkwH_VPyB?3t

1-3-0 0-9-4 1-1-6

Scale = 1:45.0



13-10-12 26-10-10
13-10-12 12-11-14

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [21:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.07	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.12	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 148 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=779(LC 3), 17=732(LC 4), 23=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1139/0, 3-4=-1630/0, 4-5=-1677/0, 5-6=-1337/0, 6-7=-418/261, 7-8=0/1515, 8-9=0/1515, 9-10=-453/453, 10-12=-1400/0, 12-13=-1400/0, 13-14=-1453/0, 14-15=-1050/0
BOT CHORD 30-31=0/716, 29-30=0/1538, 28-29=0/1677, 27-28=0/1677, 26-27=0/1677, 24-26=0/1020, 23-24=-572/0, 22-23=-739/0, 21-22=-164/1004, 20-21=0/1400, 19-20=0/1400, 18-19=0/1415, 17-18=0/666
WEBS 2-31=-1012/0, 2-30=0/629, 3-30=-594/0, 7-23=-1374/0, 7-24=0/976, 6-24=-944/0, 6-26=0/525, 5-26=-601/0, 9-23=-1306/0, 9-22=0/879, 10-22=-910/0, 10-21=0/765, 15-17=-942/0, 15-18=0/571, 14-18=-543/0, 13-19=0/305, 13-20=-269/0, 12-21=-319/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

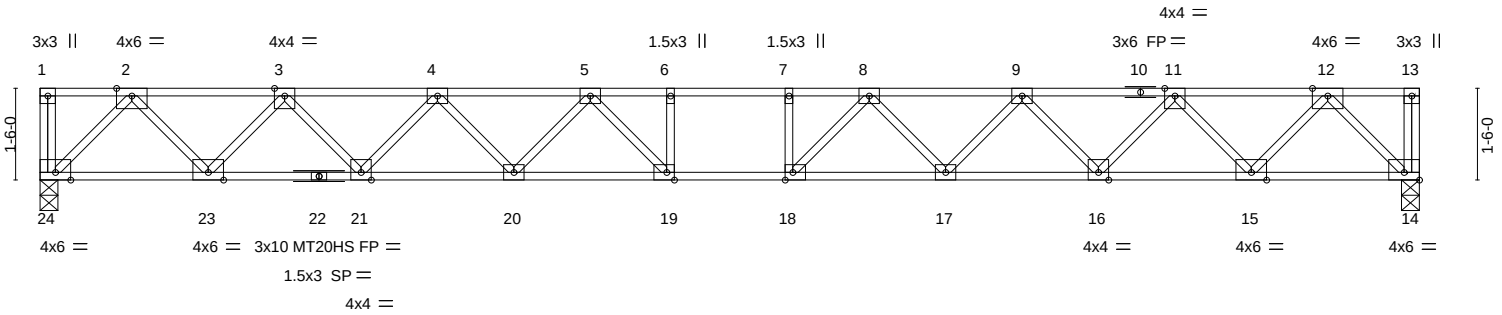
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F30	Floor	10	1	I49166113
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-cB9TAoMfDe0FoR23IIQE3LvkCvFbeB3NQuWe6kyB?3q

1-3-0 1-9-12

Scale = 1:37.7



22-6-12
22-6-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>703	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4134/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 21-23=0/3412, 20-21=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1484/0, 3-21=0/1073, 4-21=-1042/0, 4-20=0/624, 5-20=-612/0, 5-19=-154/674, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6, 6-19=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

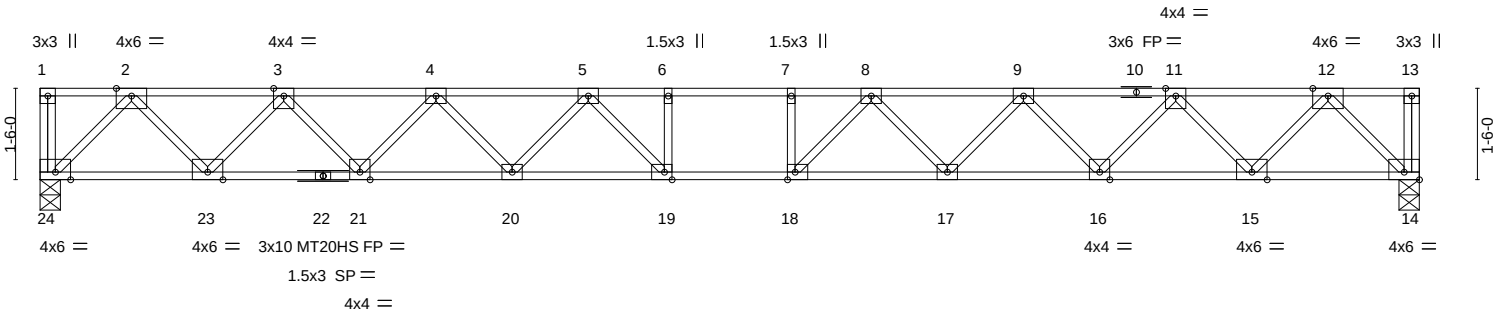
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F31	Floor	4	1	I49166114
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5NjrN8NH_y86QbdGs?xTcYSutIbmNeFWeYFCeAyB?3p

1-3-0 1-10-12

Scale = 1:37.8



22-7-12
22-7-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.39	18-19	>696	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.63	18-19	>428	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-4-0, 14=0-4-0
Max Grav 24=1456(LC 1), 14=1456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2424/0, 3-4=-4154/0, 4-5=-5285/0, 5-6=-5886/0, 6-7=-5886/0, 7-8=-5886/0, 8-9=-5285/0, 9-11=-4154/0, 11-12=-2423/0
BOT CHORD 23-24=0/1394, 21-23=0/3428, 20-21=0/4860, 19-20=0/5686, 18-19=0/5886, 17-18=0/5686, 16-17=0/4860, 15-16=0/3427, 14-15=0/1394
WEBS 2-24=-1972/0, 2-23=0/1531, 3-23=-1492/0, 3-21=0/1080, 4-21=-1050/0, 4-20=0/631, 5-20=-620/0, 5-19=-149/691, 12-14=-1972/0, 12-15=0/1530, 11-15=-1492/0, 11-16=0/1081, 9-16=-1049/0, 9-17=0/632, 8-17=-621/0, 8-18=-149/691, 7-18=-349/1, 6-19=-349/1

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

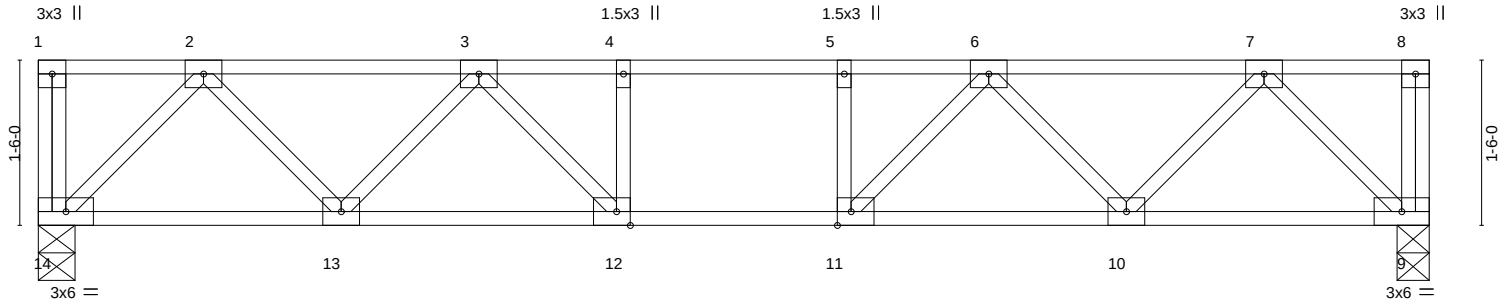
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F32	Floor	5	1	I49166115
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:11 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZZHDaUOvlGGy1lCSPjSi9m?9xi0U6C7gtC?lAcyB?3o

1-3-0 1-10-9

Scale = 1:20.9



12-7-9
12-7-9

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-3-8
Max Grav 14=805(LC 1), 9=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1181/0, 3-4=-1782/0, 4-5=-1782/0, 5-6=-1782/0, 6-7=-1181/0
BOT CHORD 13-14=0/749, 12-13=0/1586, 11-12=0/1782, 10-11=0/1586, 9-10=0/749
WEBS 2-14=-1060/0, 2-13=0/642, 3-13=-602/0, 3-12=0/456, 7-9=-1060/0, 7-10=0/642, 6-10=-602/0, 6-11=0/456, 5-11=-256/0, 4-12=-256/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
JUAN GARCIA
NUMBER E-2000162101
PROFESSIONAL ENGINEER

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F33	Floor	2	1	I49166116
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:13 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VyP_?AP9HtWgH2MrX8UAEB4S5Wb3a2CzLWUsFVyB?3m

1-3-0 1-1-5 1-5-5 1-9-0

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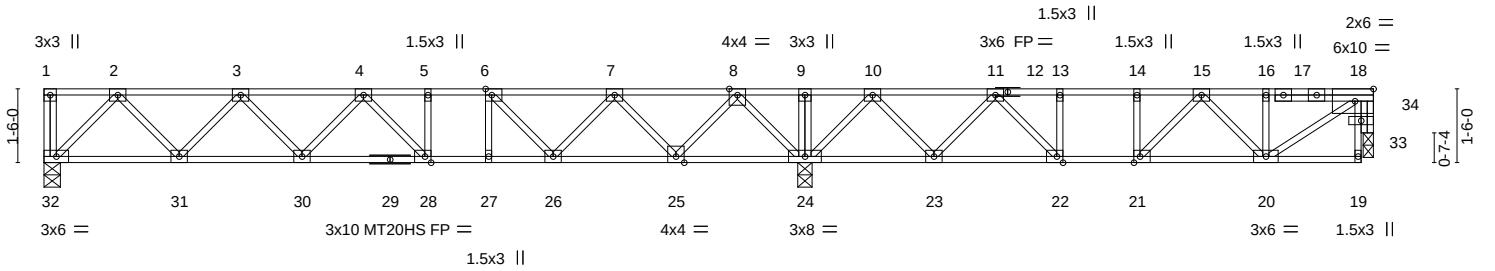


15-5-13 27-0-10
15-5-13 11-6-13

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.11	28-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.18	28-30	>999	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

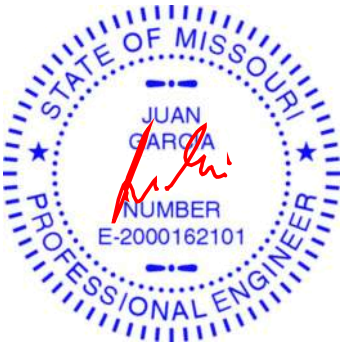
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 24=0-3-8, 34=0-2-8
Max Grav 32=887(LC 3), 24=2067(LC 1), 34=612(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1339/0, 3-4=-2046/0, 4-5=-2090/0, 5-6=-2090/0, 6-7=-1623/0, 7-8=-520/146, 8-9=0/1589, 9-10=0/1589, 10-11=-362/558, 11-13=-1091/8, 13-14=-1091/8, 14-15=-1091/8, 15-16=-762/0, 16-18=-765/0
BOT CHORD 31-32=0/825, 30-31=0/1834, 28-30=0/2212, 27-28=0/2090, 26-27=0/2090, 25-26=0/1206, 24-25=-520/0, 23-24=-834/0, 22-23=-280/819, 21-22=-8/1091, 20-21=0/1019
WEBS 2-32=-1167/0, 2-31=0/764, 3-31=-735/0, 3-30=0/315, 8-24=-1512/0, 8-25=0/1100, 7-25=-1061/0, 7-26=0/667, 6-26=-763/0, 4-28=-384/67, 18-20=0/837, 15-20=-373/16, 10-24=-1210/0, 10-23=0/788, 11-23=-798/0, 11-22=0/655, 13-22=-335/0, 18-34=-631/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F34	Floor	1	1	I49166117
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:15 2021 Page 1
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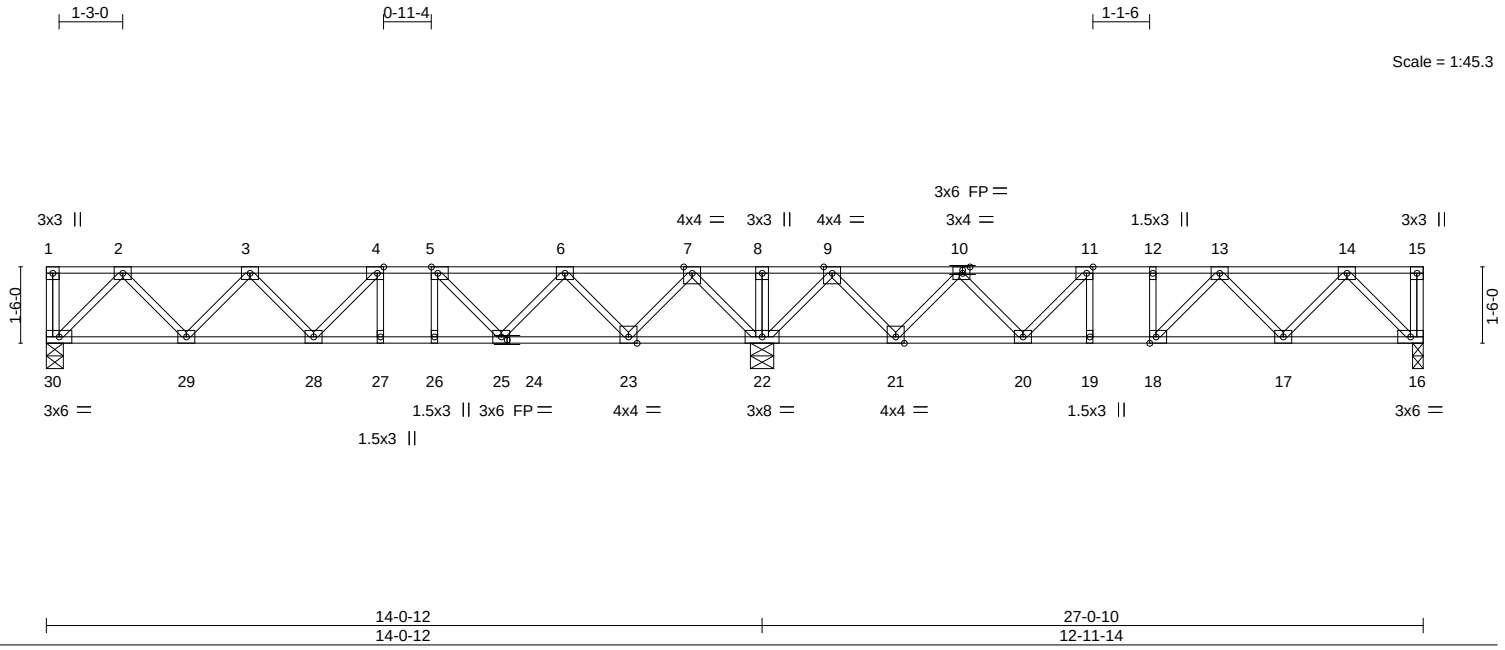


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-12,Edge], [11:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.07	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.11	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

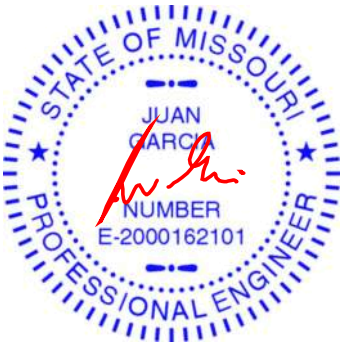
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 30=0-4-0, 16=0-2-8, 22=0-5-8
Max Grav 30=782(LC 3), 16=706(LC 4), 22=2109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1145/0, 3-4=-1641/0, 4-5=-1681/0, 5-6=-1313/0, 6-7=-362/451, 7-8=0/1764, 8-9=0/1764, 9-10=-280/515, 10-11=-1117/38, 11-12=-1385/0, 12-13=-1385/0, 13-14=-996/0
BOT CHORD 29-30=0/718, 28-29=0/1549, 27-28=0/1681, 26-27=0/1681, 25-26=0/1681, 23-25=-159/979, 22-23=-776/0, 21-22=-859/0, 20-21=-234/844, 19-20=0/1385, 18-19=0/1385, 17-18=0/1313, 16-17=0/650
WEBS 2-30=-1016/0, 2-29=0/634, 3-29=-600/0, 7-22=-1422/0, 7-23=0/1024, 6-23=-985/0, 6-25=0/573, 5-25=-674/0, 5-26=0/268, 9-22=-1343/0, 9-21=0/951, 10-21=-917/0, 10-20=0/497, 14-16=-919/0, 14-17=0/514, 13-17=-472/0, 11-20=-566/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

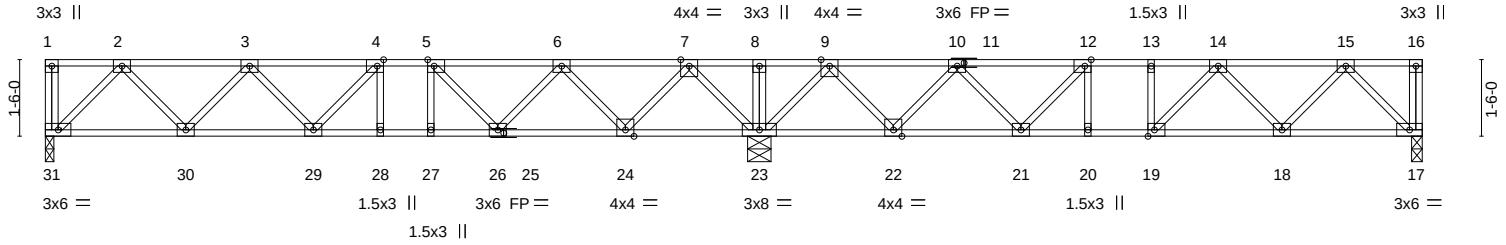
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F35	Floor	4	1	I49166118
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:16 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vX46eBS2aouF8W5PCG2tspizGjgNnPYP1UiWsqyB?3j

1-3-0 0-10-6 1-1-6

Scale = 1:45.1



13-11-14 26-11-12
13-11-14 12-11-14

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.07	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.10	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

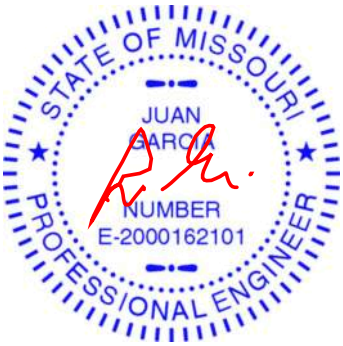
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=777(LC 3), 17=705(LC 4), 23=2107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1134/0, 3-4=-1621/0, 4-5=-1659/0, 5-6=-1298/0, 6-7=-354/460, 7-8=0/1769, 8-9=0/1769, 9-10=-274/514, 10-12=-1112/37, 12-13=-1381/0, 13-14=-1381/0, 14-15=-994/0
BOT CHORD 30-31=0/713, 29-30=0/1533, 28-29=0/1659, 27-28=0/1659, 26-27=0/1659, 24-26=-168/968, 23-24=-784/0, 22-23=-863/0, 21-22=-234/839, 20-21=0/1381, 19-20=0/1381, 18-19=0/1311, 17-18=0/649
WEBS 2-31=-1008/0, 2-30=0/626, 3-30=-593/0, 4-28=-250/0, 7-23=-1417/0, 7-24=0/1020, 6-24=-981/0, 6-26=0/568, 5-26=-663/0, 5-27=0/267, 9-23=-1344/0, 9-22=0/952, 10-22=-917/0, 10-21=0/497, 12-21=-566/0, 15-17=-918/0, 15-18=0/513, 14-18=-471/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

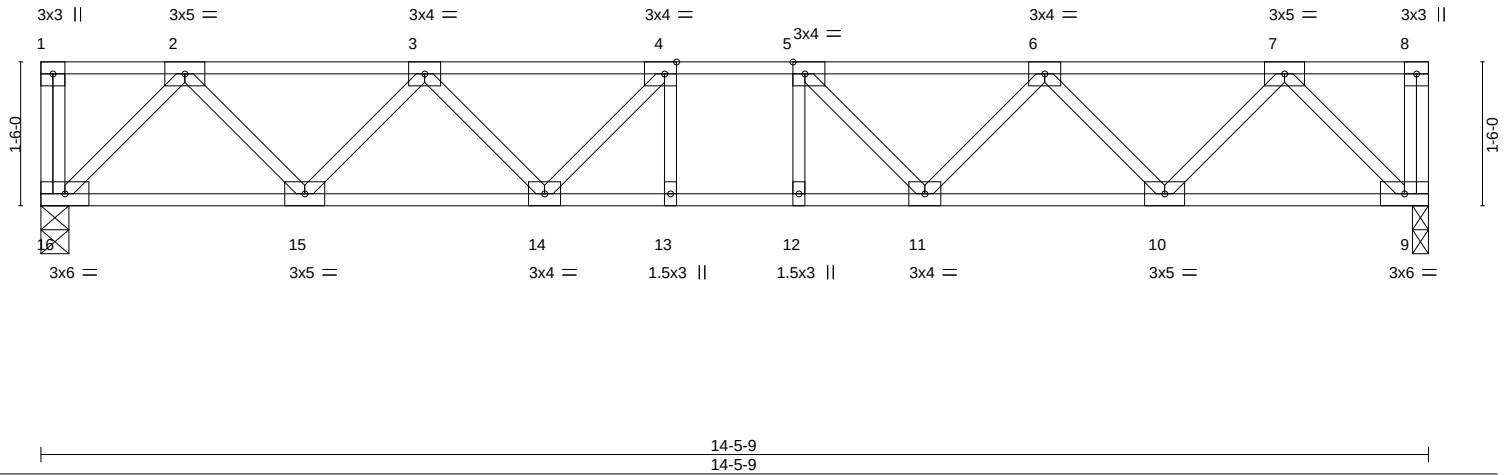
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F36	Floor	5	1	I49166119
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:17 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NjeVrXTgL616lggcmzZ6O1FBi70HWtHYG8S4OGyB?3i

1-3-0 1-2-9

Scale: 1/2"=1'



14-5-9
14-5-9

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

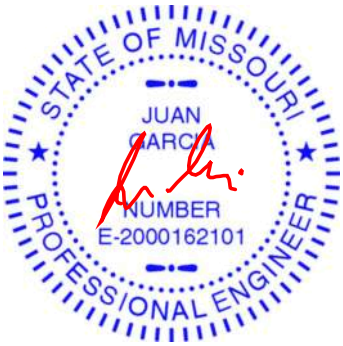
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 9=0-2-0
Max Grav 16=924(LC 1), 9=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/0, 3-4=-2169/0, 4-5=-2390/0, 5-6=-2169/0, 6-7=-1414/0
BOT CHORD 15-16=0/862, 14-15=0/1940, 13-14=0/2390, 12-13=0/2390, 11-12=0/2390, 10-11=0/1940, 9-10=0/862
WEBS 2-16=-1219/0, 2-15=0/821, 3-15=-782/0, 3-14=0/389, 4-14=-448/0, 7-9=-1219/0, 7-10=0/821, 6-10=-782/0, 6-11=0/389, 5-11=-448/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F37	Floor	2	1	I49166120
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:18 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-swCt3tTI6P9zNpEoKh4LxEnG7XMjFGgiUoBdwiyB?3h

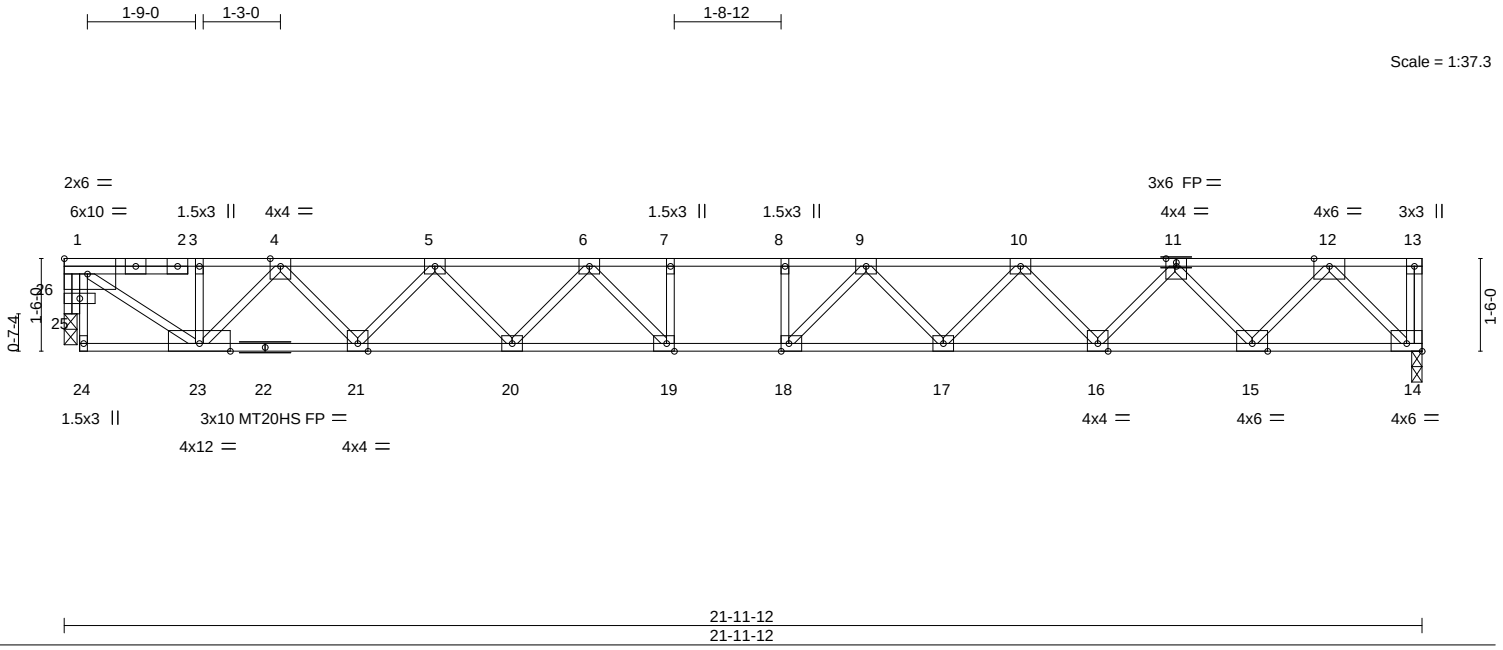


Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.35	18	>752	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.56	18	>463	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-23: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

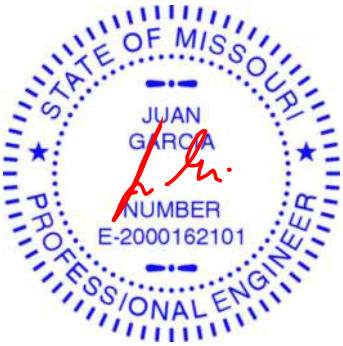
REACTIONS. (size) 14=0-2-0, 26=0-2-8
Max Grav 14=1411(LC 1), 26=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1907/0, 3-4=-1903/0, 4-5=-3689/0, 5-6=-4863/0, 6-7=-5529/0, 7-8=-5529/0, 8-9=-5529/0, 9-10=-5041/0, 10-11=-3987/0, 11-12=-2339/0
BOT CHORD	21-23=0/2930, 20-21=0/4423, 19-20=0/5288, 18-19=0/5529, 17-18=0/5397, 16-17=0/4653, 15-16=0/3302, 14-15=0/1349
WEBS	1-23=0/2136, 4-23=-1488/0, 4-21=0/1128, 5-21=-1092/0, 5-20=0/654, 6-20=-633/0, 6-19=-89/702, 12-14=-1908/0, 12-15=0/1471, 11-15=-1432/0, 11-16=0/1018, 10-16=-990/0, 10-17=0/576, 9-17=-558/0, 9-18=-203/590, 8-18=-300/30, 7-19=-349/0, 1-26=-1424/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 26.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

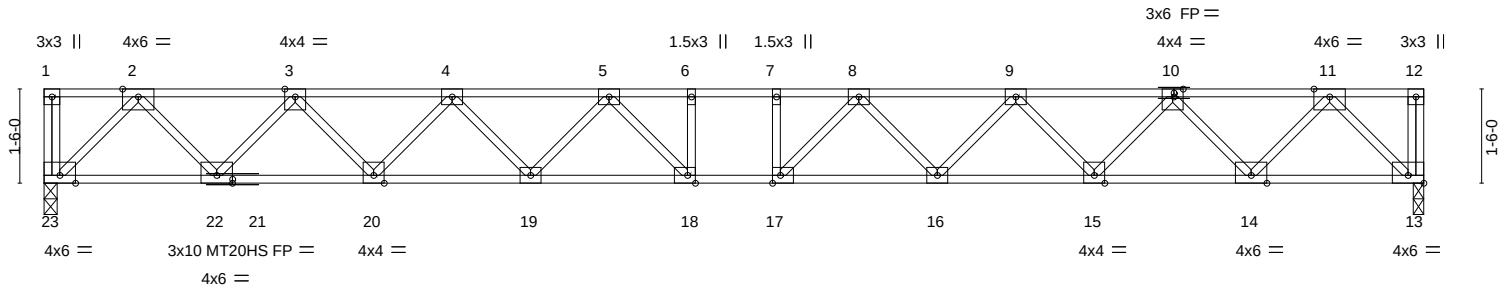
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F38	Floor	5	1	I49166121
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:19 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-K6mFGDUwtjHq?zp_tObbTSKRaxg9_jvrjSxAS9yB?3g

1-3-0 1-2-12

Scale = 1:36.7



21-11-12
21-11-12

Plate Offsets (X,Y)-- [10:0-1-12,Edge], [13:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.37	17-18	>713	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.59	17-18	>439	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

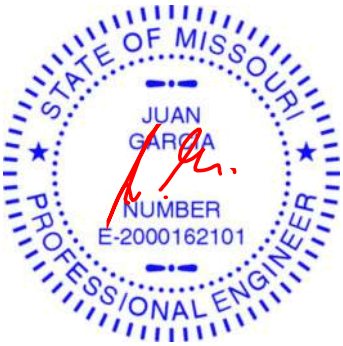
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=0-2-8, 13=0-2-0
Max Grav 23=1412(LC 1), 13=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2342/0, 3-4=-3993/0, 4-5=-5046/0, 5-6=-5552/0, 6-7=-5552/0, 7-8=-5552/0, 8-9=-5046/0, 9-10=-3993/0, 10-11=-2341/0
BOT CHORD 22-23=0/1351, 20-22=0/3306, 19-20=0/4659, 18-19=0/5409, 17-18=0/5552, 16-17=0/5409, 15-16=0/4659, 14-15=0/3306, 13-14=0/1351
WEBS 2-23=-1910/0, 2-22=0/1474, 3-22=-1434/0, 3-20=0/1020, 4-20=-990/0, 4-19=0/576, 5-19=-560/0, 5-18=-181/557, 11-13=-1910/0, 11-14=0/1472, 10-14=-1434/0, 10-15=0/1021, 9-15=-990/0, 9-16=0/575, 8-16=-560/0, 8-17=-181/557, 7-17=-262/26, 6-18=-262/26

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23, 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F39	Floor	5	1	I49166122
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:21 2021 Page 1
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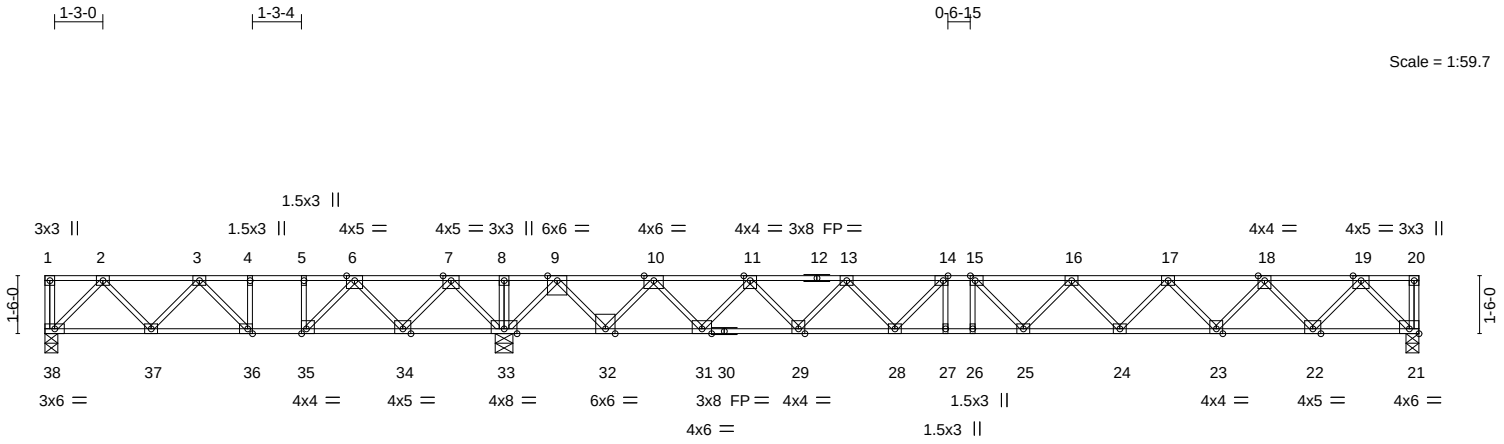


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>810	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.56	25-26	>509	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-3 oc bracing.

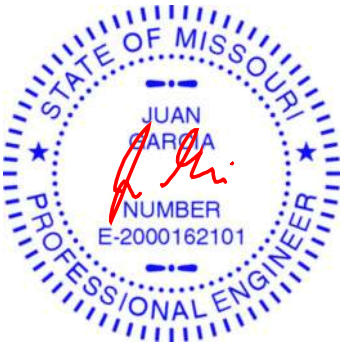
REACTIONS. (size) 38=0-4-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-144(LC 4)
Max Grav 38=550(LC 3), 21=1314(LC 4), 33=3005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-710/378, 3-4=-703/1248, 4-5=-703/1248, 5-6=-703/1248, 6-7=0/2509, 7-8=0/4008, 8-9=0/4008, 9-10=0/1034, 10-11=-1509/0, 11-13=-3182/0, 13-14=-4255/0, 14-15=-4708/0, 15-16=-4786/0, 16-17=-4505/0, 17-18=-3624/0, 18-19=-2154/0
BOT CHORD 37-38=-169/495, 36-37=-666/873, 35-36=-1248/703, 34-35=-1950/244, 33-34=-3035/0, 32-33=-2326/0, 31-32=-251/515, 29-31=0/2481, 28-29=0/3855, 27-28=0/4708, 26-27=0/4708, 25-26=0/4708, 24-25=0/4796, 23-24=0/4196, 22-23=0/3030, 21-22=0/1252
WEBS 2-38=-699/239, 2-37=-311/320, 3-37=-243/427, 3-36=-925/0, 7-33=-1633/0, 7-34=0/1173, 6-34=-1231/0, 6-35=0/1308, 5-35=-699/0, 4-36=0/460, 9-33=-2379/0, 9-32=0/1943, 10-32=-1920/0, 10-31=0/1502, 11-31=-1467/0, 11-29=0/1065, 13-29=-1022/0, 13-28=0/698, 14-28=-832/0, 19-21=-1770/0, 19-22=0/1341, 18-22=-1303/0, 18-23=0/883, 17-23=-850/0, 17-24=0/460, 16-24=-432/0, 15-25=-221/424, 15-26=-388/93, 14-27=-76/405

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=144.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.



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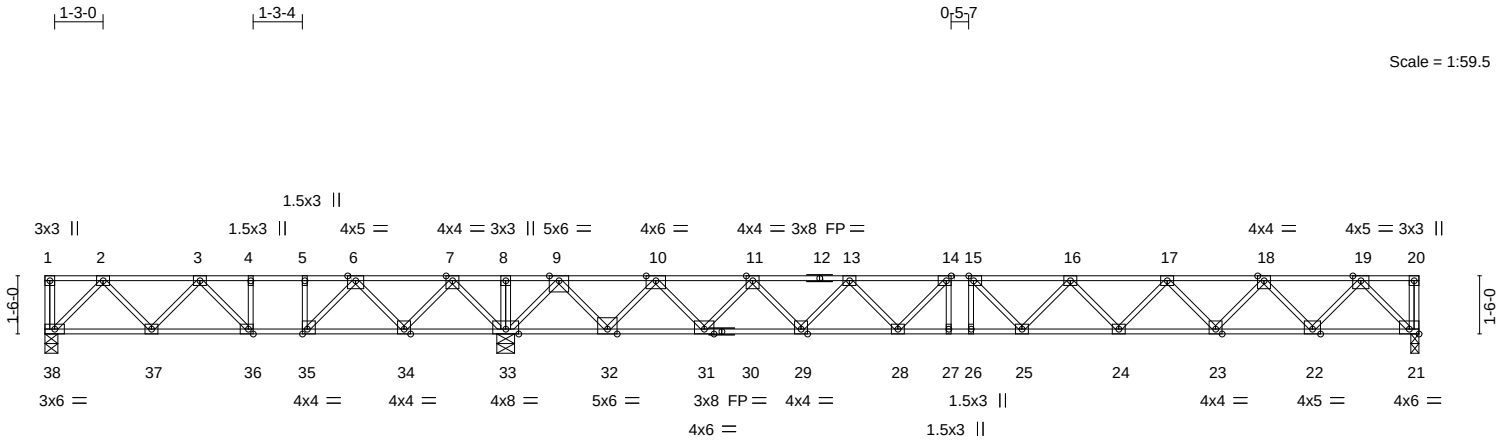
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F40	Floor	1	1	I49166123
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-g4Z8JxY3hFv65kiygxBmAV1HDyOGfwkatjfx8MyB?3b



11-10-12 | 35-5-11
11-10-12 | 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.34	25-26	>828	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.54	25-26	>520	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-9 oc bracing.

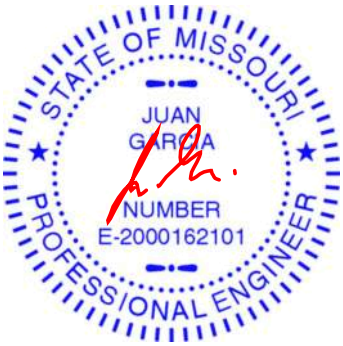
REACTIONS. (size) 38=0-4-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-140(LC 4)
Max Grav 38=552(LC 3), 21=1307(LC 4), 33=2992(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-713/369, 3-4=-710/1228, 4-5=-710/1228, 5-6=-710/1228, 6-7=0/2477, 7-8=0/3970, 8-9=0/3970, 9-10=0/1025, 10-11=-1515/0, 11-13=-3171/0, 13-14=-4228/0, 14-15=-4662/0, 15-16=-4735/0, 16-17=-4467/0, 17-18=-3599/0, 18-19=-2140/0
BOT CHORD 37-38=-164/496, 36-37=-652/878, 35-36=-1228/710, 34-35=-1923/253, 33-34=-3000/0, 32-33=-2297/0, 31-32=-249/529, 29-31=0/2478, 28-29=0/3836, 27-28=0/4662, 26-27=0/4662, 25-26=0/4662, 24-25=0/4750, 23-24=0/4165, 22-23=0/3011, 21-22=0/1245
WEBS 2-38=-702/232, 2-37=-305/322, 3-37=-245/421, 3-36=-915/0, 7-33=-1627/0, 7-34=0/1168, 6-34=-1224/0, 6-35=0/1298, 5-35=-693/0, 4-36=0/455, 9-33=-2366/0, 9-32=0/1931, 10-32=-1907/0, 10-31=0/1489, 11-31=-1455/0, 11-29=0/1053, 13-29=-1012/0, 13-28=0/686, 14-28=-797/0, 19-21=-1761/0, 19-22=0/1331, 18-22=-1294/0, 18-23=0/874, 17-23=-841/0, 17-24=0/449, 16-24=-421/0, 16-25=-256/206, 15-25=-213/410, 15-26=-383/103, 14-27=-87/398

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=140.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

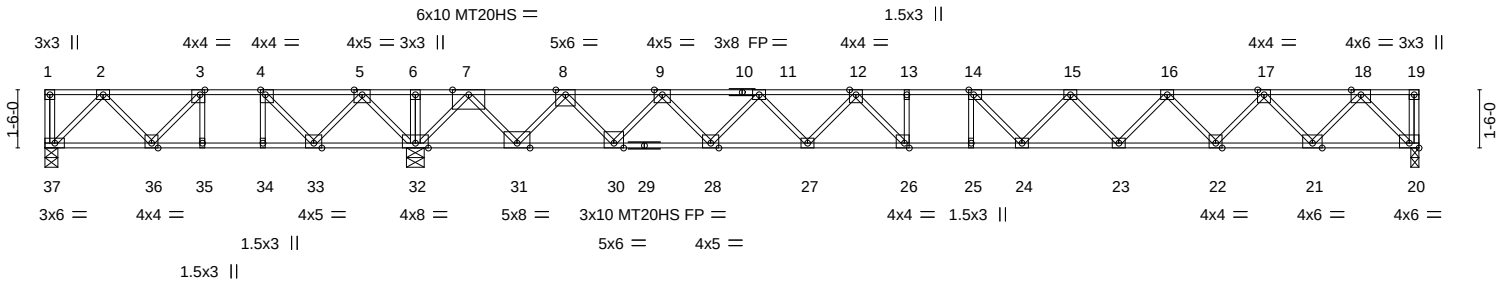
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F41	Floor	5	1	I49166124
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:25 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-8G7WXGZhSZ1zjuH8Efi?jjaRaLioOS_k5NOVgoyB?3a

1-3-0 1-5-4 1-6-7

Scale = 1:59.5



9-6-12 35-5-11
9-6-12 25-10-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.44	25	>697	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.71	24-25	>434	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,4-34,3-35,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-4-0, 20=0-2-8, 32=0-5-8
Max Uplift 37=-359(LC 4)
Max Grav 37=360(LC 3), 20=1462(LC 7), 32=3127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-325/829, 3-4=-188/1632, 4-5=0/2620, 5-6=0/4253, 6-7=0/4253, 7-8=0/1026, 8-9=-1769/0, 9-11=-3696/0, 11-12=-5008/0, 12-13=-5907/0, 13-14=-5907/0, 14-15=-5875/0, 15-16=-5329/0, 16-17=-4177/0, 17-18=-2437/0
BOT CHORD 36-37=-322/333, 35-36=-1632/188, 34-35=-1632/188, 33-34=-1632/188, 32-33=-3329/0, 31-32=-2456/0, 30-31=0/649, 28-30=0/2865, 27-28=0/4497, 26-27=0/5529, 25-26=0/5907, 24-25=0/5907, 23-24=0/5760, 22-23=0/4882, 21-22=0/3449, 20-21=0/1400
WEBS 2-37=-471/456, 2-36=-753/0, 3-36=0/1162, 5-32=-1501/0, 5-33=0/1300, 4-33=-1693/0, 4-34=0/687, 3-35=-659/0, 7-32=-2542/0, 7-31=0/2126, 8-31=-2110/0, 8-30=0/1686, 9-30=-1651/0, 9-28=0/1258, 11-28=-1212/0, 11-27=0/780, 12-27=-799/0, 18-20=-1980/0, 18-21=0/1542, 17-21=-1504/0, 17-22=0/1083, 16-22=-1048/0, 16-23=0/664, 15-23=-641/0, 15-24=-103/401, 14-24=-440/349, 12-26=0/902, 13-26=-401/0, 14-25=-299/95

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 37=359.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

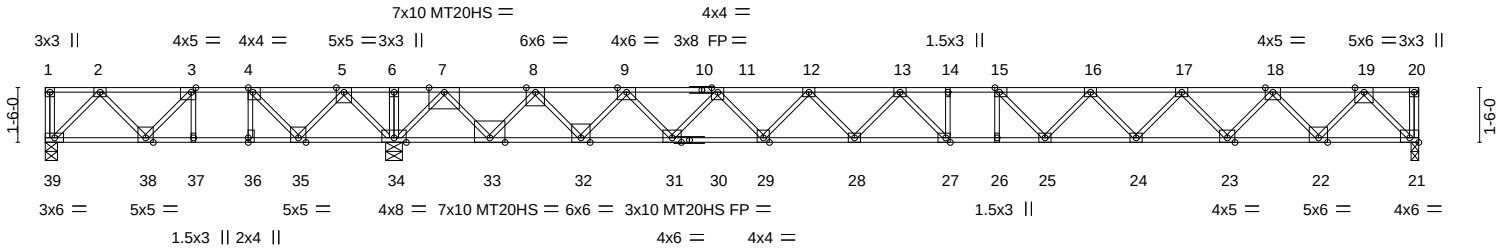
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F42	Floor	2	1	I49166125
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:27 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5eFGxyax_AHhyCQXL4kTo8fmj9NvsLN1ZhtblhyB?3Y

1-3-0 1-5-4 1-2-11

Scale = 1:63.2



9-6-12 37-7-15
9-6-12 28-1-3

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [27:0-1-8,Edge], [36:0-1-8,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.54	26-27	>620	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.87	26-27	>385	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.09	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

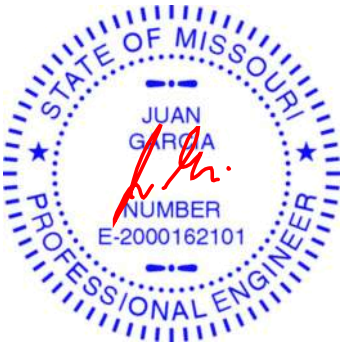
LUMBER-
TOP CHORD 2x4 SP 2850F 2.3E(flat) *Except*
10-20: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2850F 2.3E(flat) *Except*
21-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-39,20-21,6-34,3-37,4-36,15-26,14-27: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 39=0-4-0, 21=0-2-8, 34=0-5-8
Max Uplift 39=-552(LC 4)
Max Grav 39=287(LC 3), 21=1556(LC 7), 34=3508(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-185/1201, 3-4=0/2291, 4-5=0/3569, 5-6=0/5547, 6-7=0/5547, 7-8=0/1975, 8-9=-1157/0, 9-11=-3422/0, 11-12=-5106/0, 12-13=-6188/0, 13-14=-6751/0, 14-15=-6751/0, 15-16=-6566/0, 16-17=-5846/0, 17-18=-4526/0, 18-19=-2615/0
BOT CHORD 38-39=-495/268, 37-38=-2291/0, 36-37=-2291/0, 35-36=-2291/0, 34-35=-4475/0, 33-34=-3574/0, 32-33=-536/0, 31-32=0/2424, 29-31=0/4398, 28-29=0/5788, 27-28=0/6573, 26-27=0/6751, 25-26=0/6751, 24-25=0/6353, 23-24=0/5318, 22-23=0/3711, 21-22=0/1493
WEBS 2-39=-379/700, 2-38=-1049/0, 3-38=0/1579, 3-37=-849/0, 5-34=-1726/0, 5-35=0/1590, 4-35=-2111/0, 4-36=0/880, 7-34=-2790/0, 7-33=0/2376, 8-33=-2367/0, 8-32=0/1943, 9-32=-1903/0, 9-31=0/1502, 11-31=-1471/0, 11-29=0/1071, 12-29=-1033/0, 12-28=0/616, 19-21=-2112/0, 19-22=0/1668, 18-22=-1630/0, 18-23=0/1211, 17-23=-1178/0, 17-24=0/785, 16-24=-754/0, 16-25=-31/526, 15-25=-610/212, 13-28=-651/0, 13-27=-208/697, 14-27=-298/46

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 39=552.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

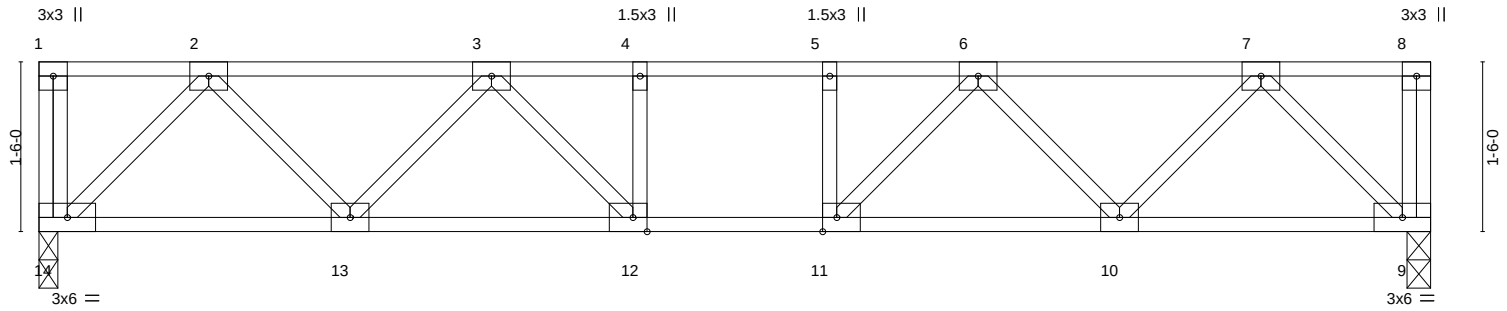
Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F43	Floor	6	1	I49166126
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:28 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Zrpf9IbZlUPYaM?jvnGiLLC5BZqTbuXAnLd9H7yB?3X

1-3-0 1-6-10

Scale = 1:20.4



12-3-10
12-3-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

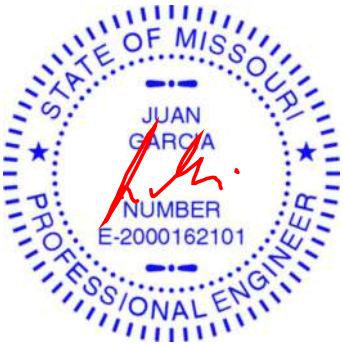
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=783(LC 1), 9=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1141/0, 3-4=-1694/0, 4-5=-1694/0, 5-6=-1694/0, 6-7=-1141/0
BOT CHORD 13-14=0/728, 12-13=0/1527, 11-12=0/1694, 10-11=0/1527, 9-10=0/728
WEBS 2-14=-1029/0, 2-13=0/614, 3-13=-574/0, 3-12=0/405, 7-9=-1029/0, 7-10=0/614, 6-10=-574/0, 6-11=0/405

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F44	Floor	2	1	I49166127
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:28 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Zrpf9IbZlUPYaM?jvnGiLLC5JZqJbv_AnLd9H7yB?3X

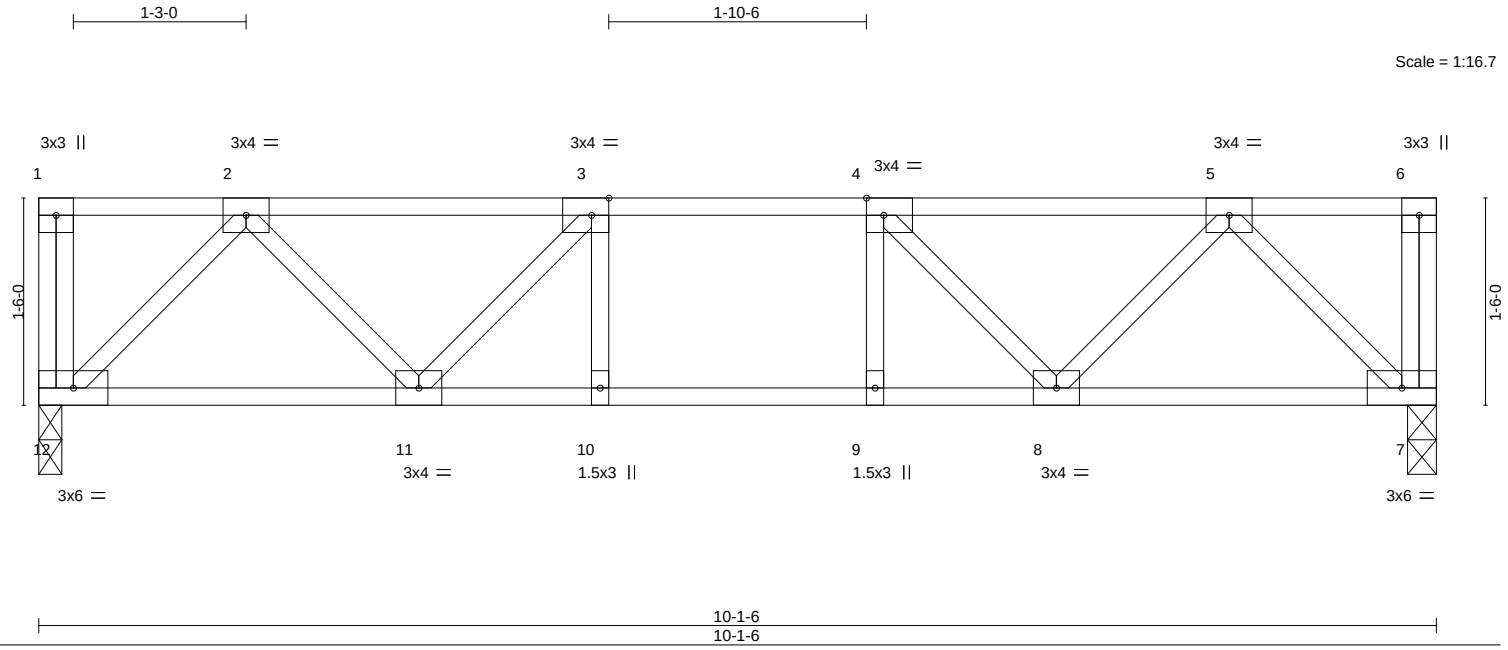


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 57 lb	FT = 3%F, 3%E

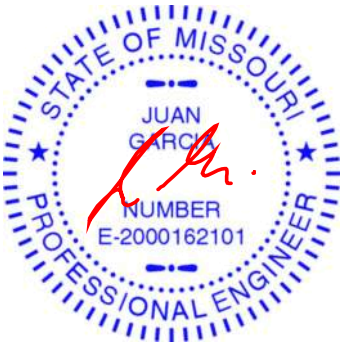
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-8
Max Grav 12=641(LC 1), 7=641(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-868/0, 3-4=-1140/0, 4-5=-868/0
BOT CHORD 11-12=0/587, 10-11=0/1140, 9-10=0/1140, 8-9=0/1140, 7-8=0/587
WEBS 2-12=-830/0, 2-11=0/418, 3-11=-425/0, 5-7=-830/0, 5-8=0/418, 4-8=-425/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F45	Floor	8	1	I49166128
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:29 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-11M1MecCWoXPCWavTVnxtZk90y3LKKVJ0?MipayB?3W

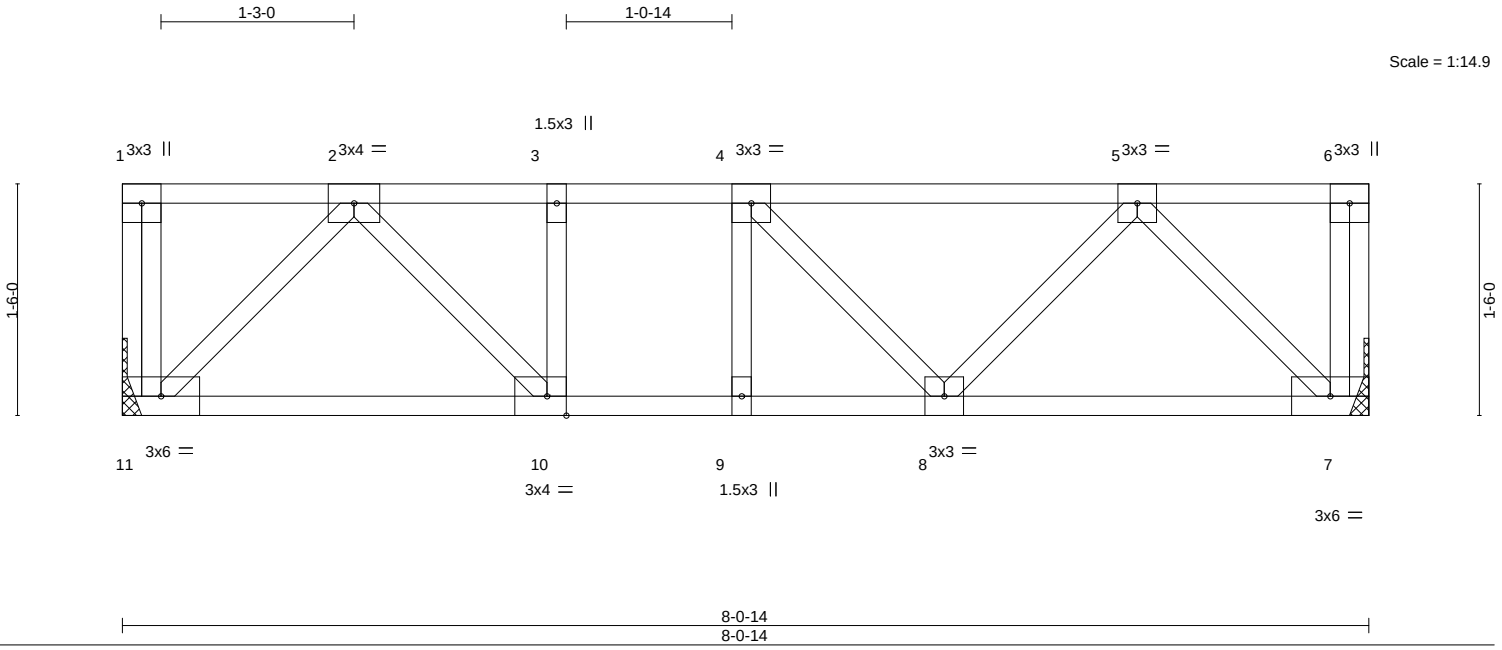


Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.08	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.09	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

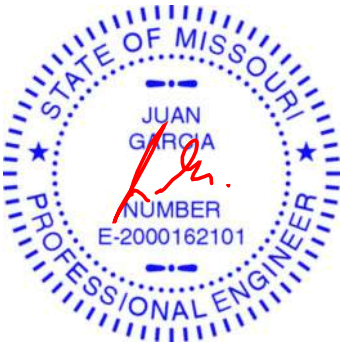
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Grav 11=978(LC 1), 7=978(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1359/0, 3-4=-1359/0, 4-5=-1172/0
BOT CHORD 10-11=0/842, 9-10=0/1359, 8-9=0/1359, 7-8=0/900
WEBS 2-11=-1191/0, 2-10=0/787, 5-7=-1273/0, 5-8=0/405, 4-8=-370/0, 4-9=-264/37, 3-10=-383/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	F46	Floor	7	1	I49166129
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VDwPa_dqH5fGpf960ClAQmHN1MQZ3hnTFf6GL0yB?3V

1-3-0 1-3-2

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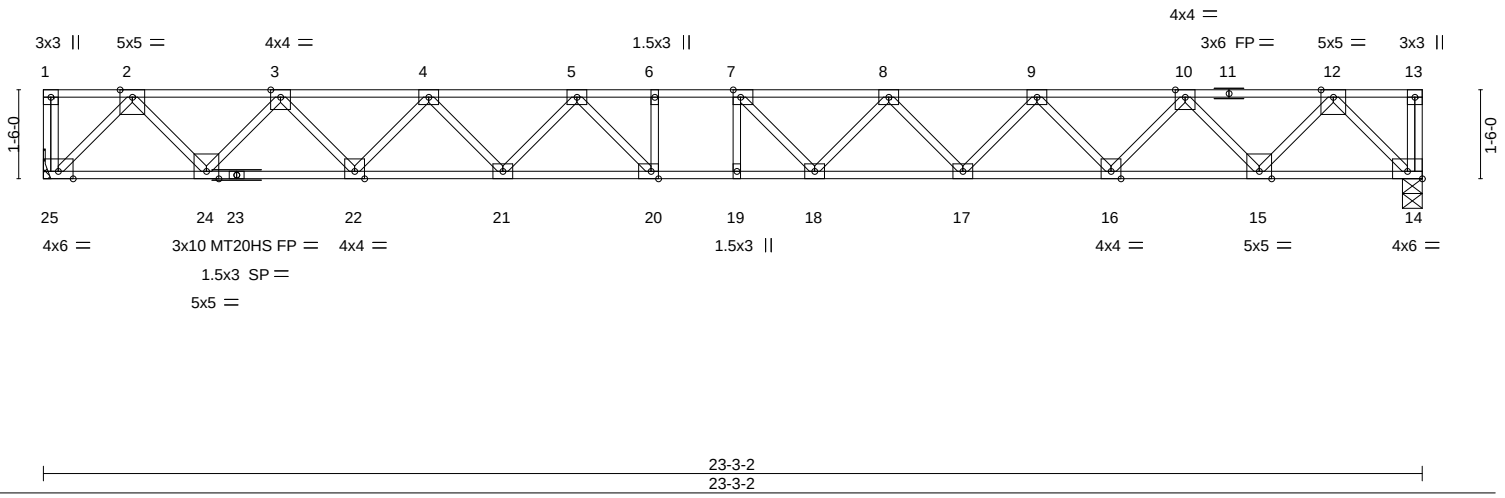


23-3-2
23-3-2

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [14:Edge,0-1-8], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.40	18-19	>699	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.64	18-19	>431	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

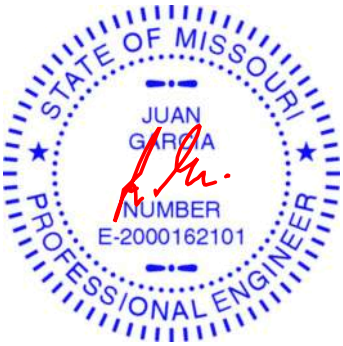
LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 25=Mechanical, 14=0-4-0
Max Grav 25=1496(LC 1), 14=1496(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2500/0, 3-4=-4305/0, 4-5=-5498/0, 5-6=-6219/0, 6-7=-6219/0, 7-8=-6122/0, 8-9=-5512/0, 9-10=-4303/0, 10-12=-2501/0
BOT CHORD 24-25=0/1433, 22-24=0/3541, 21-22=0/5043, 20-21=0/5949, 19-20=0/6219, 18-19=0/6219, 17-18=0/5969, 16-17=0/5037, 15-16=0/3545, 14-15=0/1433
WEBS 2-25=-2027/0, 2-24=0/1585, 3-24=-1548/0, 3-22=0/1136, 4-22=-1098/0, 4-21=0/677, 5-21=-670/0, 5-20=-88/725, 12-14=-2026/0, 12-15=0/1588, 10-15=-1552/0, 10-16=0/1126, 9-16=-1092/0, 9-17=0/707, 8-17=-680/0, 8-18=-44/443, 7-18=-497/233, 6-20=-312/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW1	GABLE	2	1	I49166130
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:41 2021 Page 1
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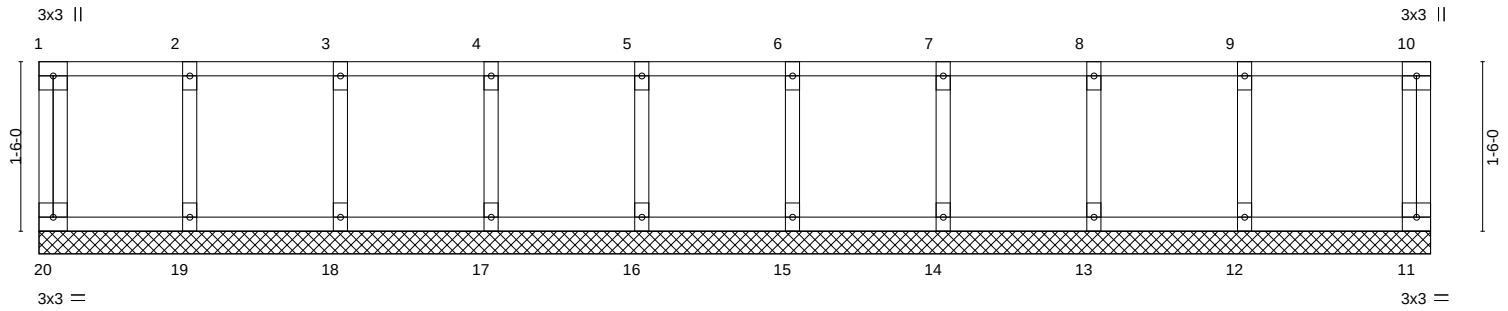


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

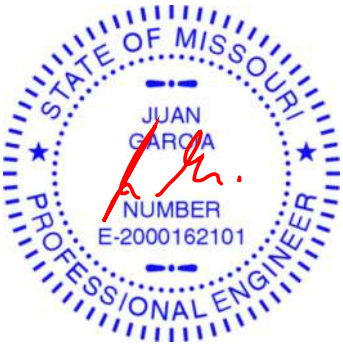
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW2	GABLE	1	1	I49166131
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:48 2021 Page 1
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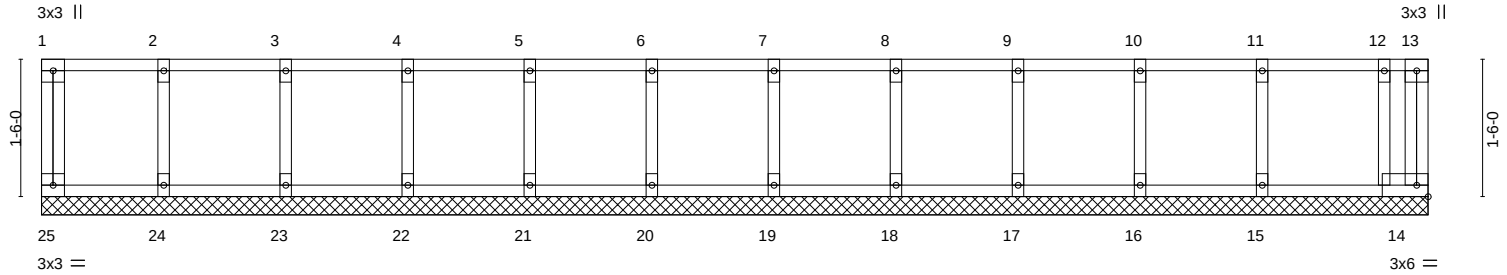


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-1-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

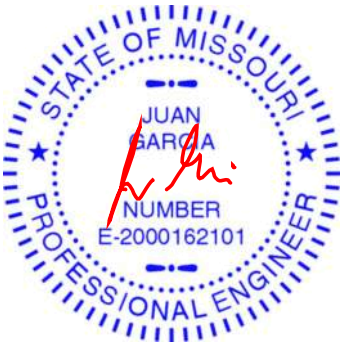
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-1-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW3	GABLE	2	1	I49166132
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:48 2021 Page 1
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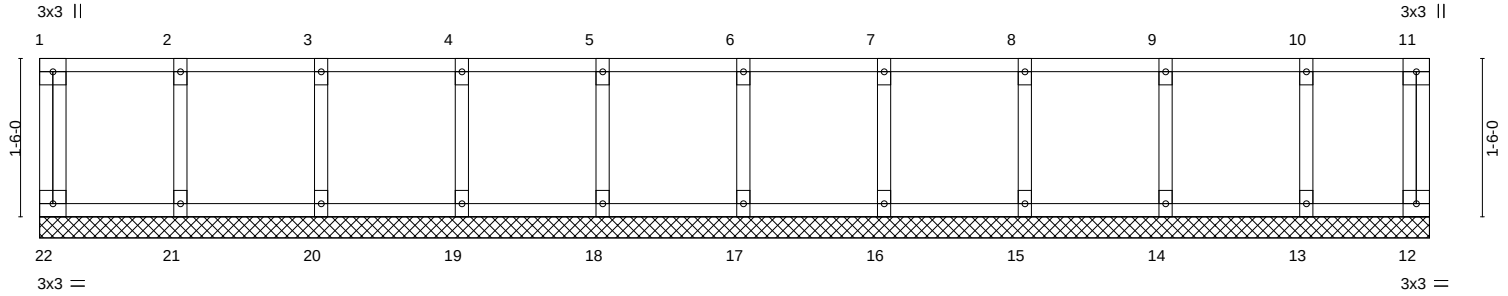


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-2-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

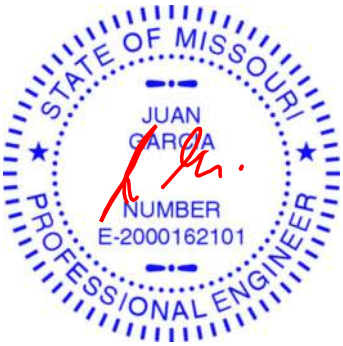
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW4	GABLE	2	1	I49166133
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:49 2021 Page 1
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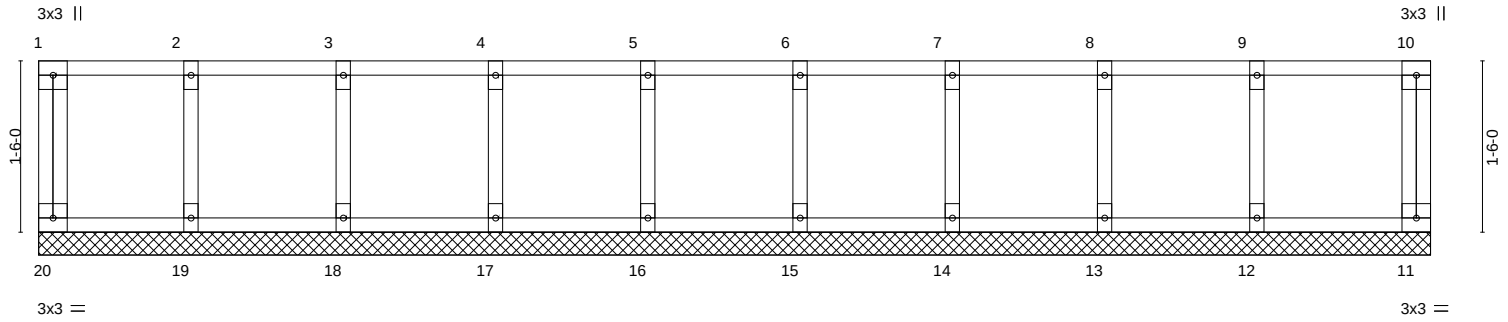

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW5	GABLE	2	1	I49166134
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:50 2021 Page 1
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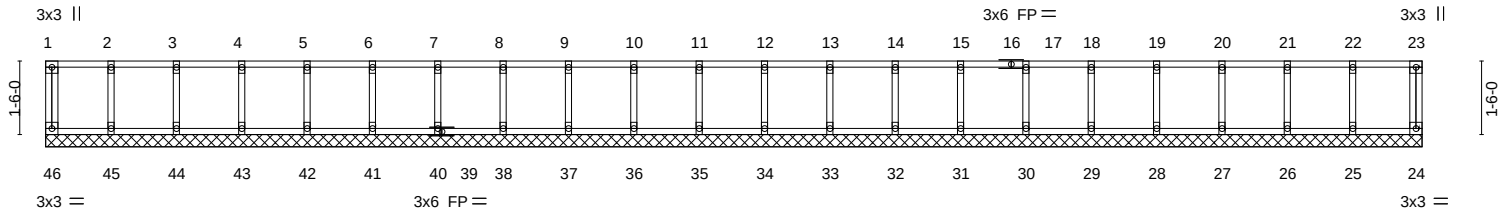


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

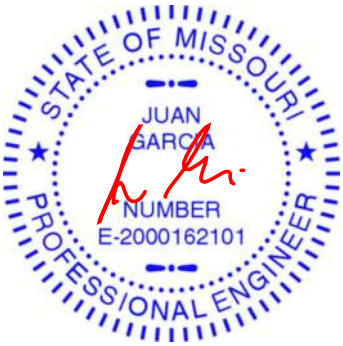
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW6	GABLE	1	1	I49166135
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:51 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-OGiL_9t?KYJHruG8l6A5mCf5?qogULIZ4QhtblyB?3A

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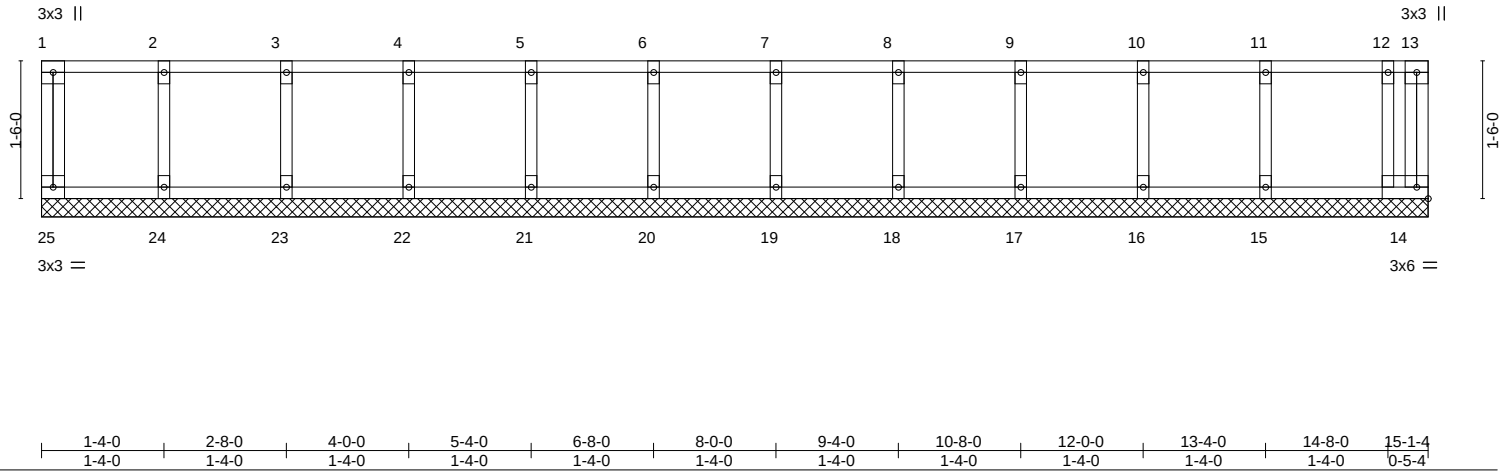


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-1-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

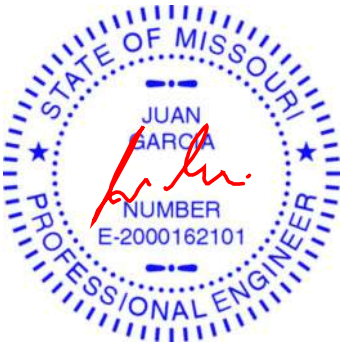
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW7	GABLE	2	1	I49166136
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:51 2021 Page 1
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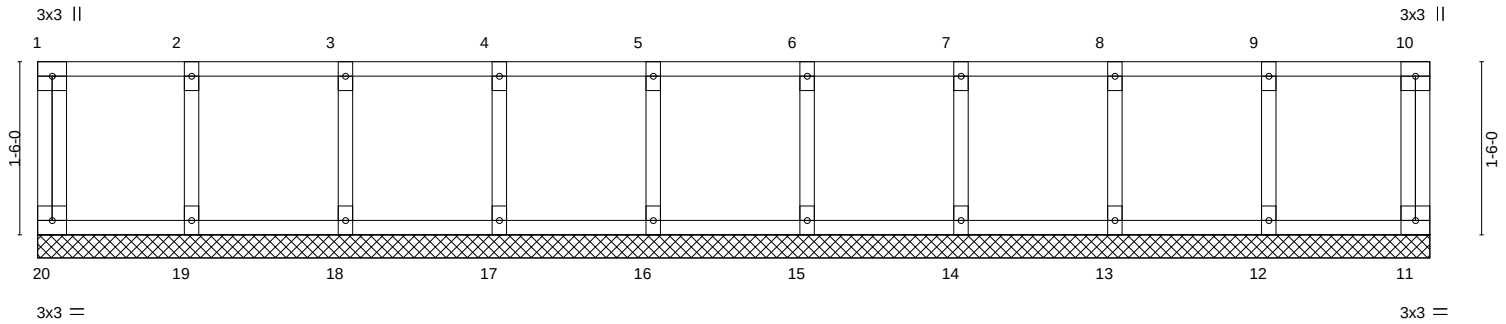

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW8	GABLE	2	1	I49166137
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:52 2021 Page 1
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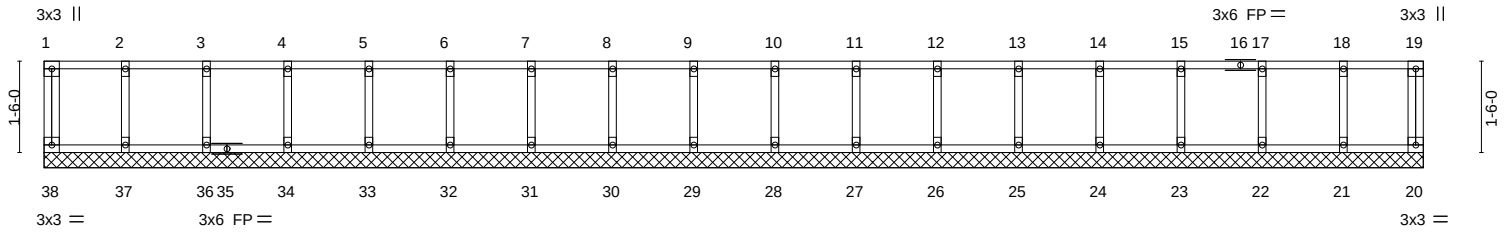

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-7-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-7-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW9	GABLE	1	1	I49166138
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:53 2021 Page 1
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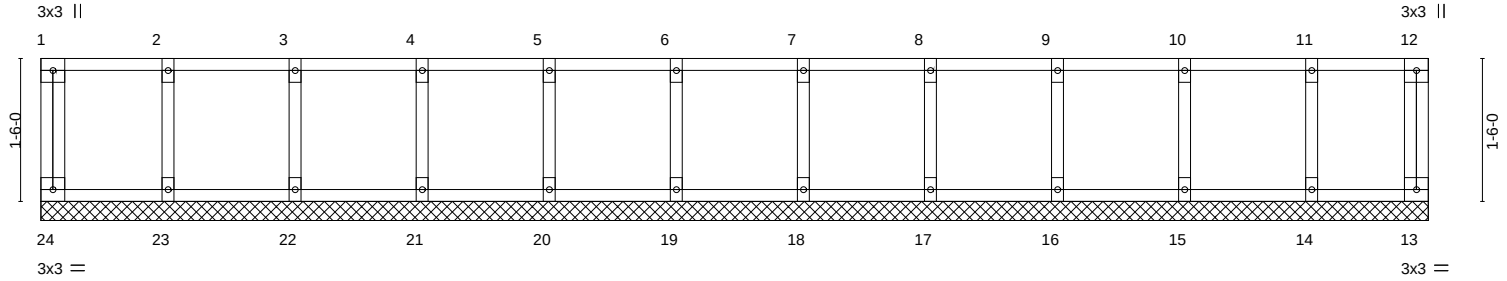


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-6-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

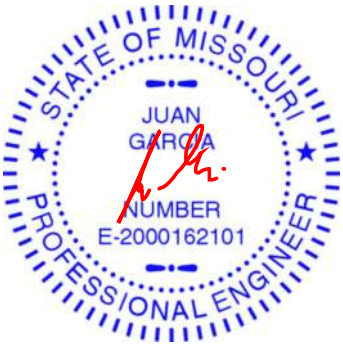
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-6-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW10	GABLE	1	1	I49166139
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:42 2021 Page 1
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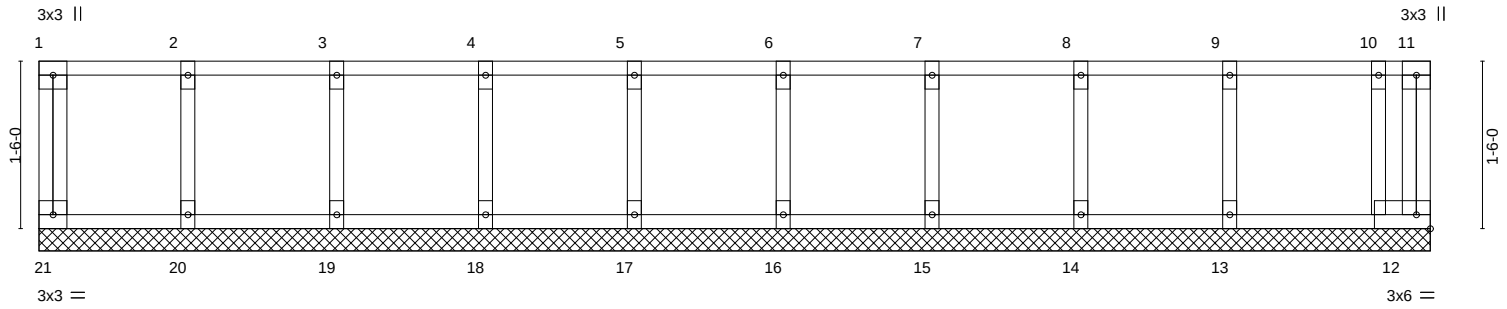


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-5-9
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-9

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

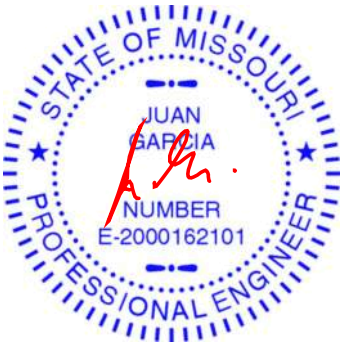
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-5-9.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW11	GABLE	1	1	I49166140
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9Xfx54mLSnAZFV4PjjW_vInYLCkhtH5E?X0umJyB?3J

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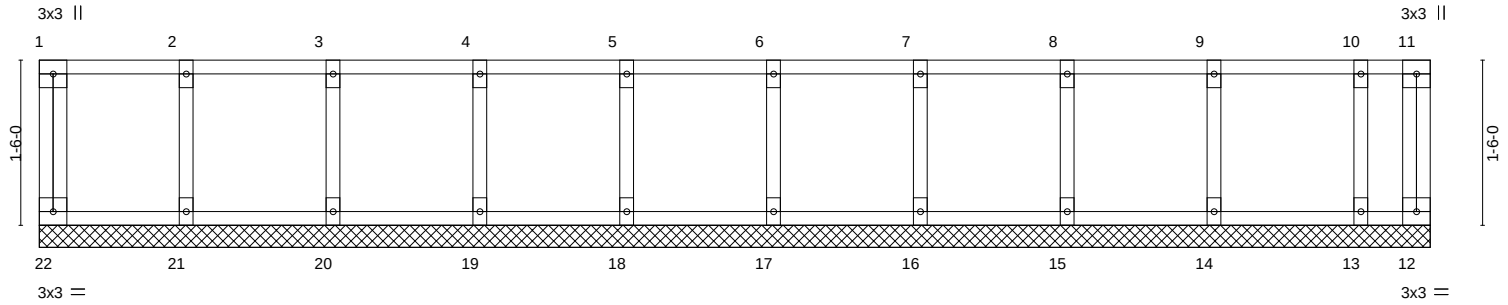


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-9
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-9

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

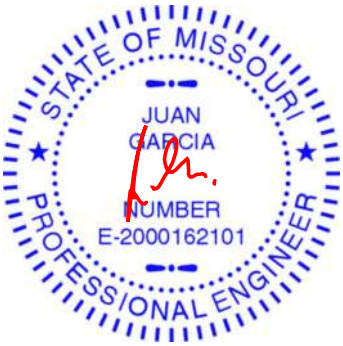
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-7-9.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW12	GABLE	1	1	I49166141
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:43 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-djDKIQn_D5IQtffcHR1DSWJj5c4yckLNEAlSJmyB?3I

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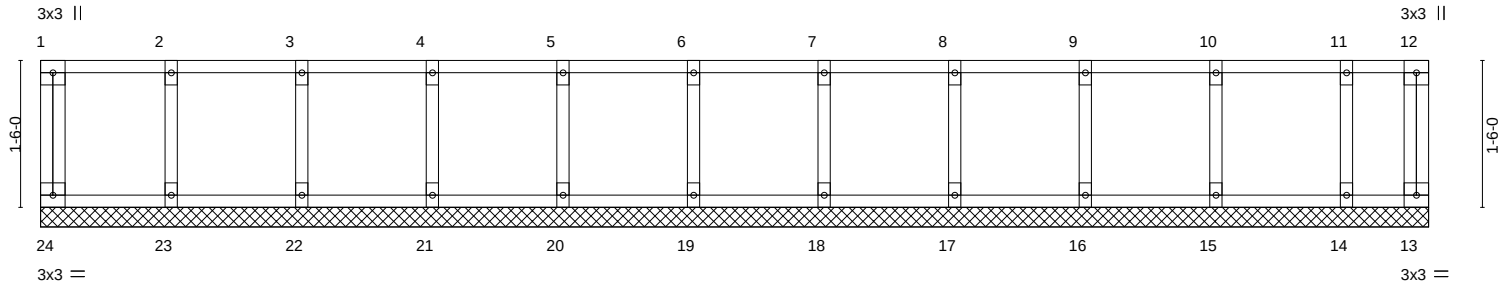


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-2-1
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-1

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

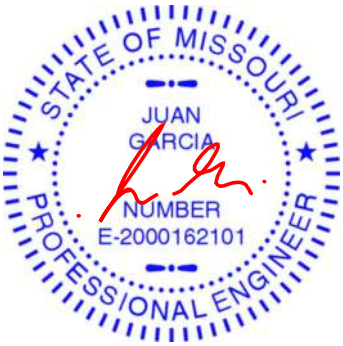
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-2-1.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW13	GABLE	1	1	I49166142
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:44 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5wmiWmoc_PQHVpEor8YS_jsus?QFLBaXTqV?rCyB?3H

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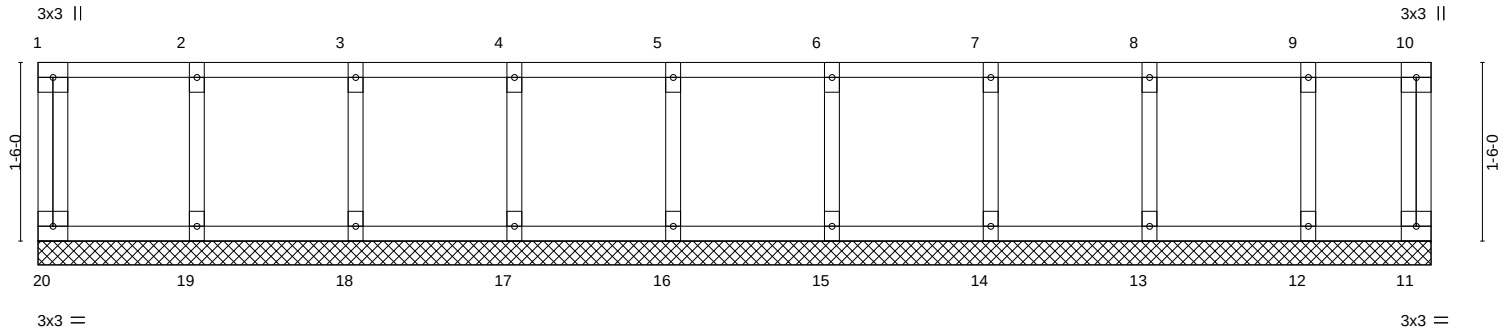


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

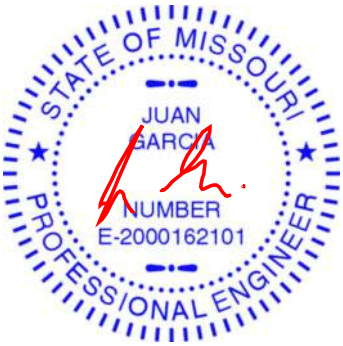
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW14	GABLE	1	1	I49166143
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:44 2021 Page 1
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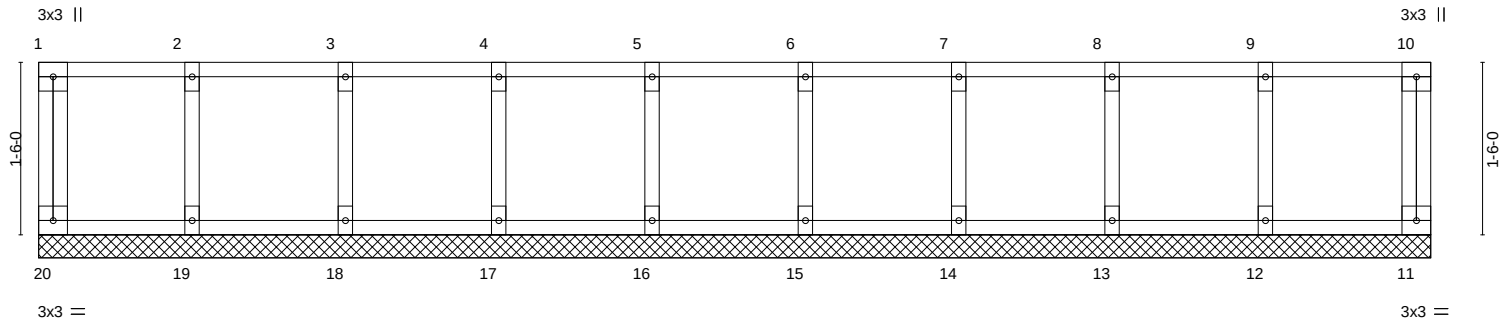


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

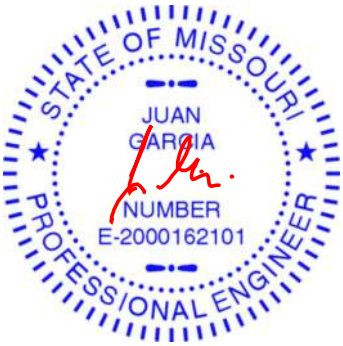
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW15	GABLE	1	1	I49166144
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:45 2021 Page 1
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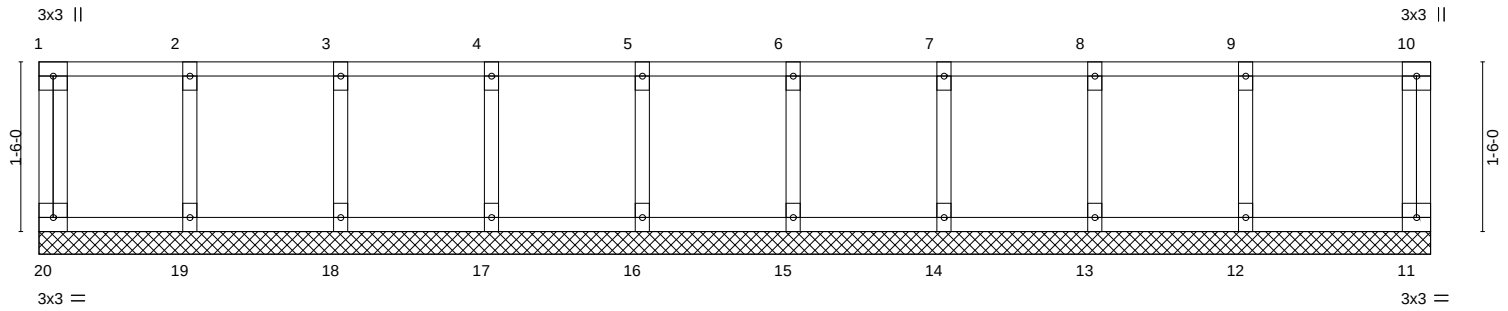

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 9,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 2

Job	Truss	Truss Type	Qty	Ply	
PRYOR-F2A	KW16	GABLE	1	1	I49166145 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 14:48:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VVSq8oqUHJosMHyNWH59cMUP6DRyYYKz9ojfSXyB?3E

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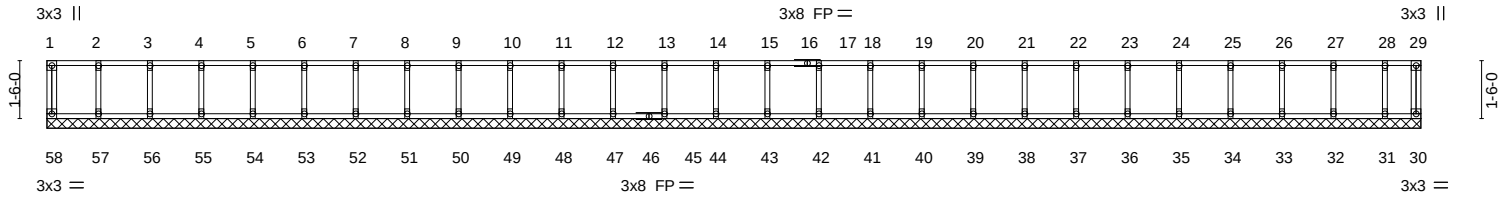
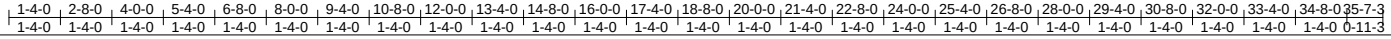




LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 162 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

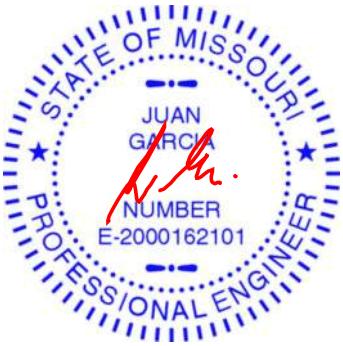
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 35-7-3.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 9,2021

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MiTek
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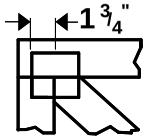
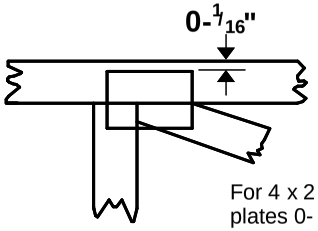
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

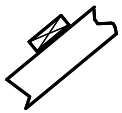
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

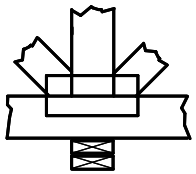
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

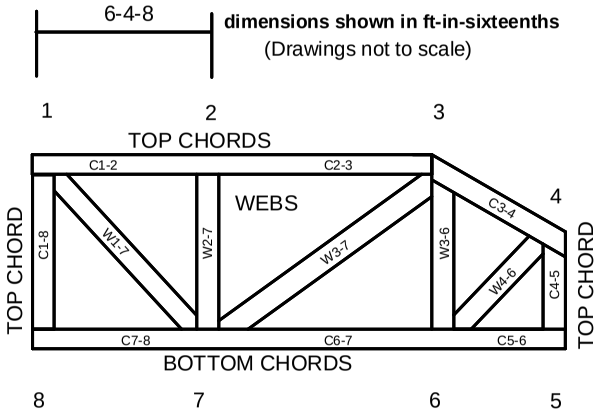


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area A Level 2

Building 2 Area B Level 2

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: January 11, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-8 Revision 0: Building 2 Area B - 2nd Floor Truss SD	RETURNED NOT REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

TRUSS LAYOUT

Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/1/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEVIATIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 01/11/2022 BY: cb

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area B
2nd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS

9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101

OFFICE: (573) 395-3400
FAX : (573) 395-3410

Building 2 Area B Level 2

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 01/11/2022 *BY:* cb

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F2B
WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49385510 thru I49385608

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/1/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

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St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

December 22,2021

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

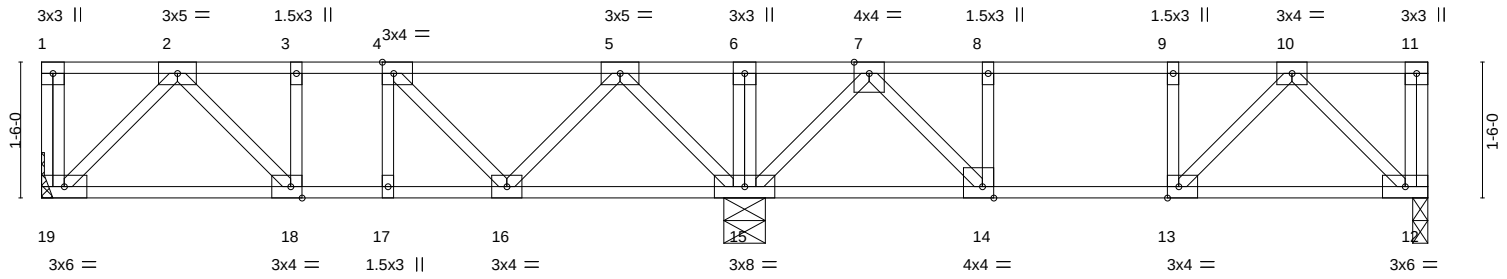
Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385510
PRYOR-F2B	C1	Floor	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:53 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-FN_SIvIddwxJGzhUYeuciTuLx4TzCOUFP87ZH9y6ixi

1-3-0 0-10-10 1-11-0

Scale = 1:25.4



7-9-2 15-3-10
7-9-2 7-6-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.10	12-13	>921	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=0-2-0, 15=0-5-8
Max Grav 19=1128(LC 10), 12=1070(LC 7), 15=2483(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1523/0, 3-4=-1523/0, 4-5=-1292/0, 5-6=0/916, 6-7=0/916, 7-8=-1330/0, 8-9=-1330/0, 9-10=-1330/0
BOT CHORD 18-19=0/966, 17-18=0/1523, 16-17=0/1523, 15-16=-32/967, 14-15=-188/741, 13-14=0/1330, 12-13=0/888
WEBS 6-15=-340/0, 2-19=-1366/0, 2-18=0/806, 5-15=-1663/0, 5-16=0/703, 4-16=-633/0, 4-17=-252/84, 3-18=-396/0, 7-15=-1442/0, 7-14=0/1031, 10-12=-1256/0, 10-13=-52/639, 9-13=-459/24, 8-14=-660/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C2	Floor	13	1	I49385511
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:59 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4XLjYzMODmiT_u8euv?0yk7MBVYuc7t7n4atVoy6ixc

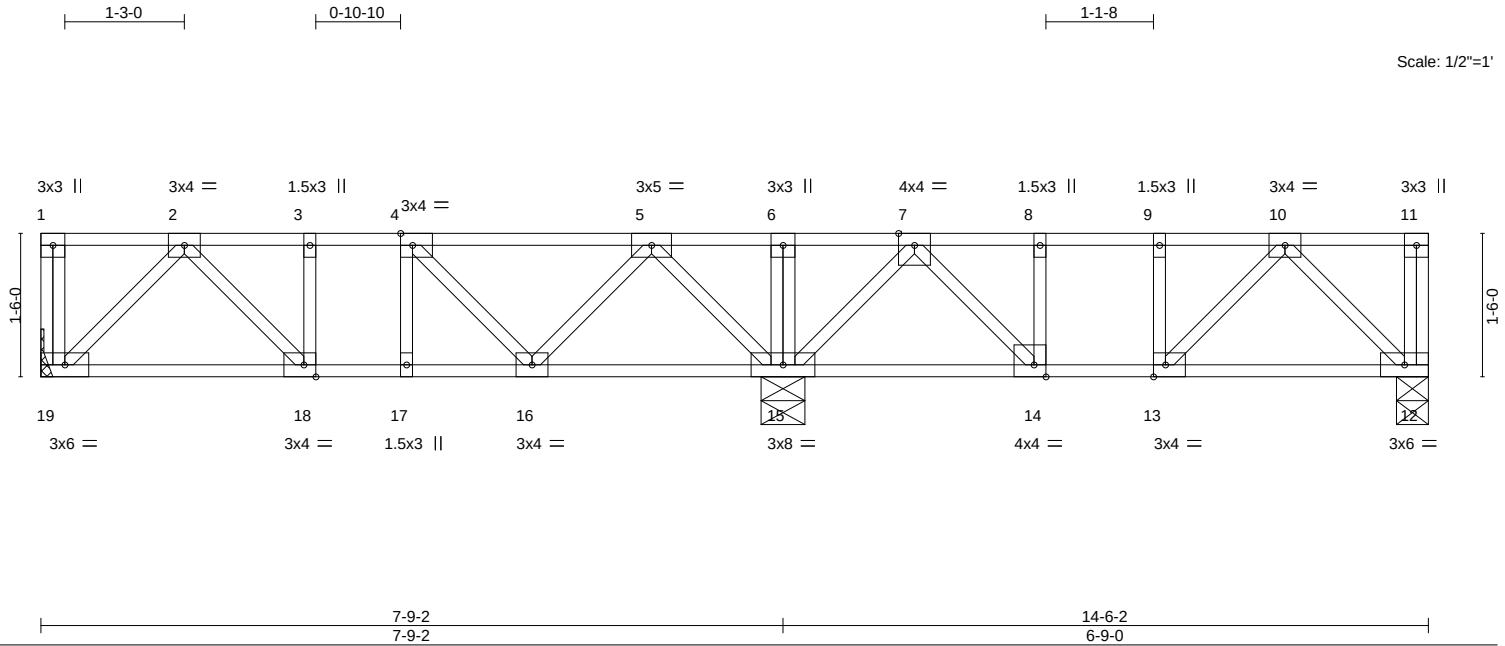

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 19=1061(LC 10), 12=934(LC 7), 15=2458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1367/0, 3-4=-1367/0, 4-5=-1047/0, 5-6=0/1018, 6-7=0/1018, 7-8=-1037/125, 8-9=-1037/125, 9-10=-1037/125
BOT CHORD 18-19=0/897, 17-18=0/1367, 16-17=0/1367, 15-16=-81/656, 14-15=-383/591, 13-14=-125/1037, 12-13=-4/761
WEBS 6-15=-331/0, 2-19=-1269/0, 2-18=0/679, 3-18=-341/0, 5-15=-1689/0, 5-16=0/728, 4-16=-667/0, 7-15=-1387/0, 7-14=0/907, 8-14=-553/0, 10-12=-1077/6, 10-13=-174/399, 9-13=-291/89

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C3	Floor	3	1	I49385512
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Ykv5mIN0z4qKc2jqScWFVygXduwZLaUH0kJR1Fy6ixb

1-3-0 0-9-12 0-9-8

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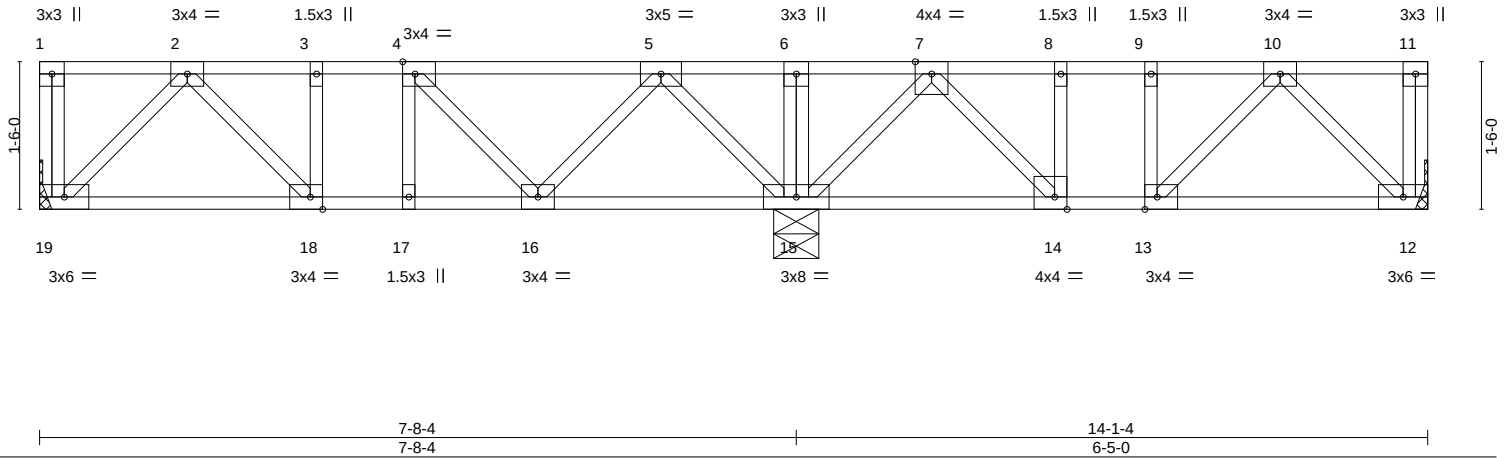

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.05	16-17	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 84 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=Mechanical, 15=0-5-8
Max Uplift 12=-8(LC 3)
Max Grav 19=1015(LC 10), 12=873(LC 7), 15=2456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1264/0, 3-4=-1264/0, 4-5=-909/0, 5-6=0/1052, 6-7=0/1052, 7-8=-912/195, 8-9=-912/195, 9-10=-912/195
BOT CHORD 18-19=0/852, 17-18=0/1264, 16-17=0/1264, 15-16=-108/493, 14-15=-467/515, 13-14=-195/912, 12-13=-42/701
WEBS 6-15=-329/0, 2-19=-1205/0, 2-18=0/597, 3-18=-295/0, 5-15=-1685/0, 5-16=0/725, 4-16=-666/0, 7-15=-1367/0, 7-14=0/860, 8-14=-512/0, 10-12=-992/60, 10-13=-221/305

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C4	Floor	1	1	I49385513
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Ykv5mIN0z4qKc2jqScWFVygXuuvrLaNH0kJR1Fy6ixb

1-3-0 0-9-12 0-11-8

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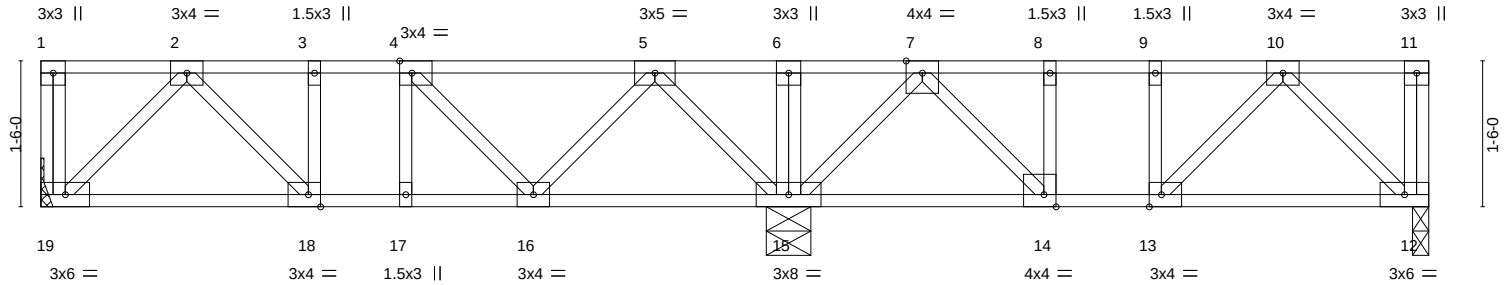


7-8-4 14-3-4
7-8-4 6-7-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=0-2-0, 15=0-5-8
Max Grav 19=1036(LC 10), 12=903(LC 7), 15=2447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1311/0, 3-4=-1311/0, 4-5=-981/0, 5-6=0/1026, 6-7=0/1026, 7-8=-971/152, 8-9=-971/152, 9-10=-971/152
BOT CHORD 18-19=0/872, 17-18=0/1311, 16-17=0/1311, 15-16=-95/585, 14-15=-412/549, 13-14=-152/971, 12-13=-19/730
WEBS 6-15=-330/0, 2-19=-1234/0, 2-18=0/635, 3-18=-311/0, 5-15=-1679/0, 5-16=0/719, 4-16=-657/0, 7-15=-1370/0, 7-14=0/875, 8-14=-528/0, 10-12=-1033/28, 10-13=-192/349, 9-13=-258/98

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

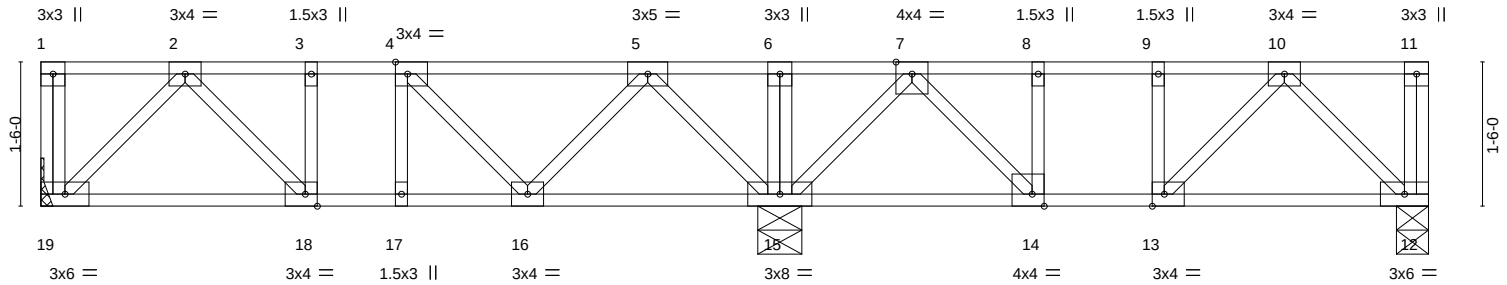
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C5	Floor	7	1	I49385514
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:01 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0wTTzeOekNyBEBI00K1U19DitIEO41VQEO3_Zhy6ixa

1-3-0 0-9-12 1-1-8

Scale: 1/2"=1'



7-8-4 14-5-4
7-8-4 6-9-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=0-4-0, 15=0-5-8
Max Grav 19=1055(LC 10), 12=932(LC 7), 15=2440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1354/0, 3-4=-1354/0, 4-5=-1049/0, 5-6=0/1001, 6-7=0/1001, 7-8=-1031/111, 8-9=-1031/111, 9-10=-1031/111
BOT CHORD 18-19=0/892, 17-18=0/1354, 16-17=0/1354, 15-16=-83/672, 14-15=-361/583, 13-14=-111/1031, 12-13=0/759
WEBS 6-15=-331/0, 2-19=-1261/0, 2-18=0/670, 3-18=-326/0, 5-15=-1672/0, 5-16=0/712, 4-16=-649/0, 7-15=-1376/0, 7-14=0/891, 8-14=-545/0, 10-12=-1074/0, 10-13=-163/394, 9-13=-289/83

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C6	Floor	7	1	I49385515
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-yIbEOKPuG?CvTVSP7l3y6aI4D6wUYxRjiiY5eZy6ixY

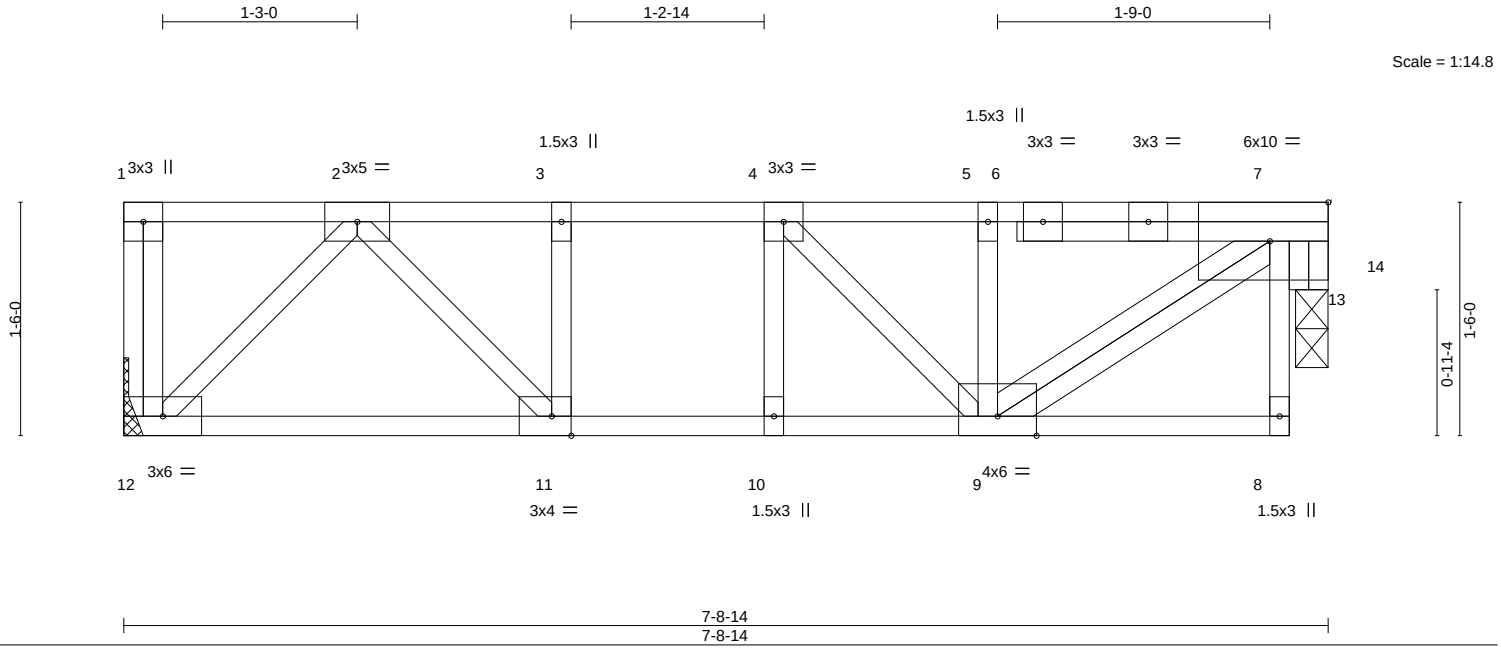


Plate Offsets (X,Y)-- [7:0-4-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 52 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 7-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 14=0-2-8
Max Grav 12=1120(LC 1), 14=1071(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1477/0, 3-4=-1477/0, 4-5=-1250/0, 5-7=-1227/0
BOT CHORD	11-12=0/949, 10-11=0/1477, 9-10=0/1477
WEBS	2-12=-1342/0, 2-11=0/832, 3-11=-473/0, 7-9=0/1402, 5-9=-607/0, 4-9=-586/0, 7-14=-1127/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385516
PRYOR-F2B	C6A	Floor	7	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-yIbEOKPuG?CvTVSP7l3y6aI4R6zJYy8jiY5eZy6ixY

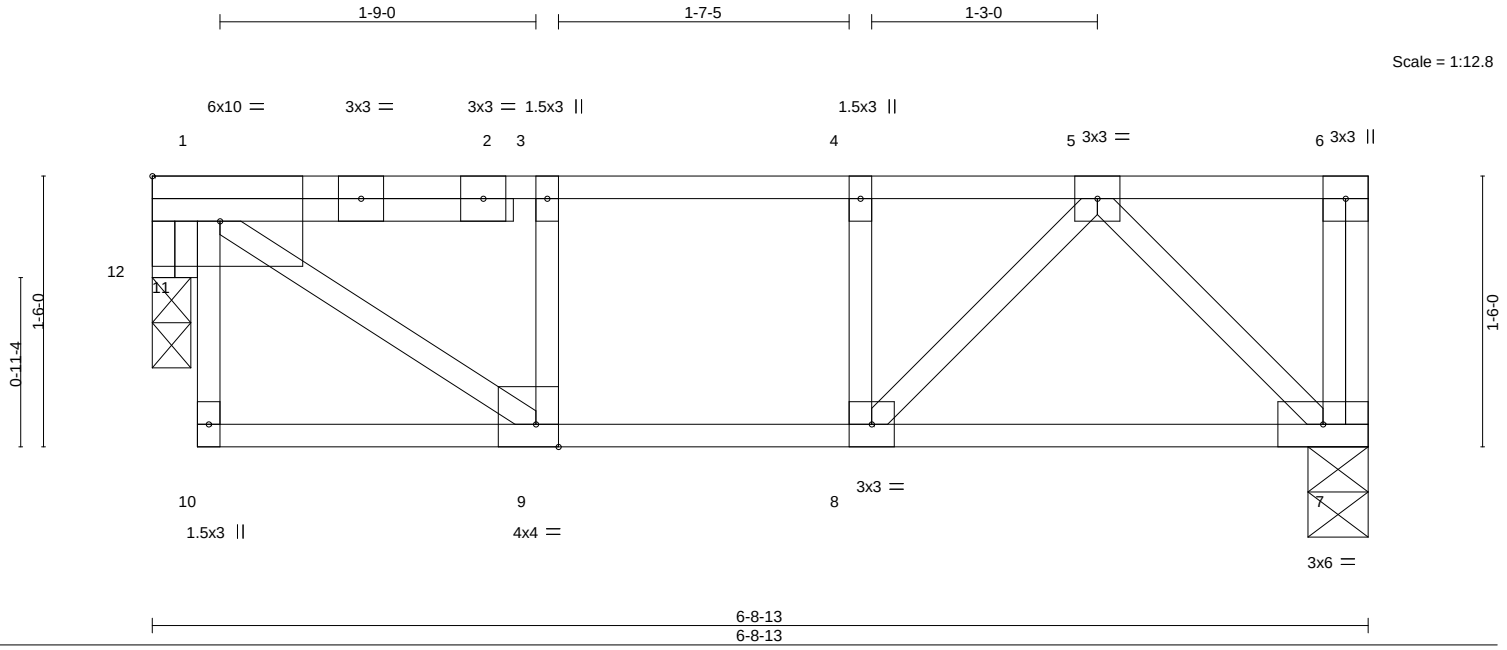

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.07	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.08	7-8	>915	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 12=0-2-9
Max Grav 7=968(LC 1), 12=921(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1098/0, 3-4=-1093/0, 4-5=-1093/0
BOT CHORD	8-9=0/1093, 7-8=0/791
WEBS	1-9=0/1245, 3-9=-650/0, 5-7=-1118/0, 5-8=0/568, 4-8=-355/0, 1-12=-967/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385517
PRYOR-F2B	C7	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:05 2021 Page 1
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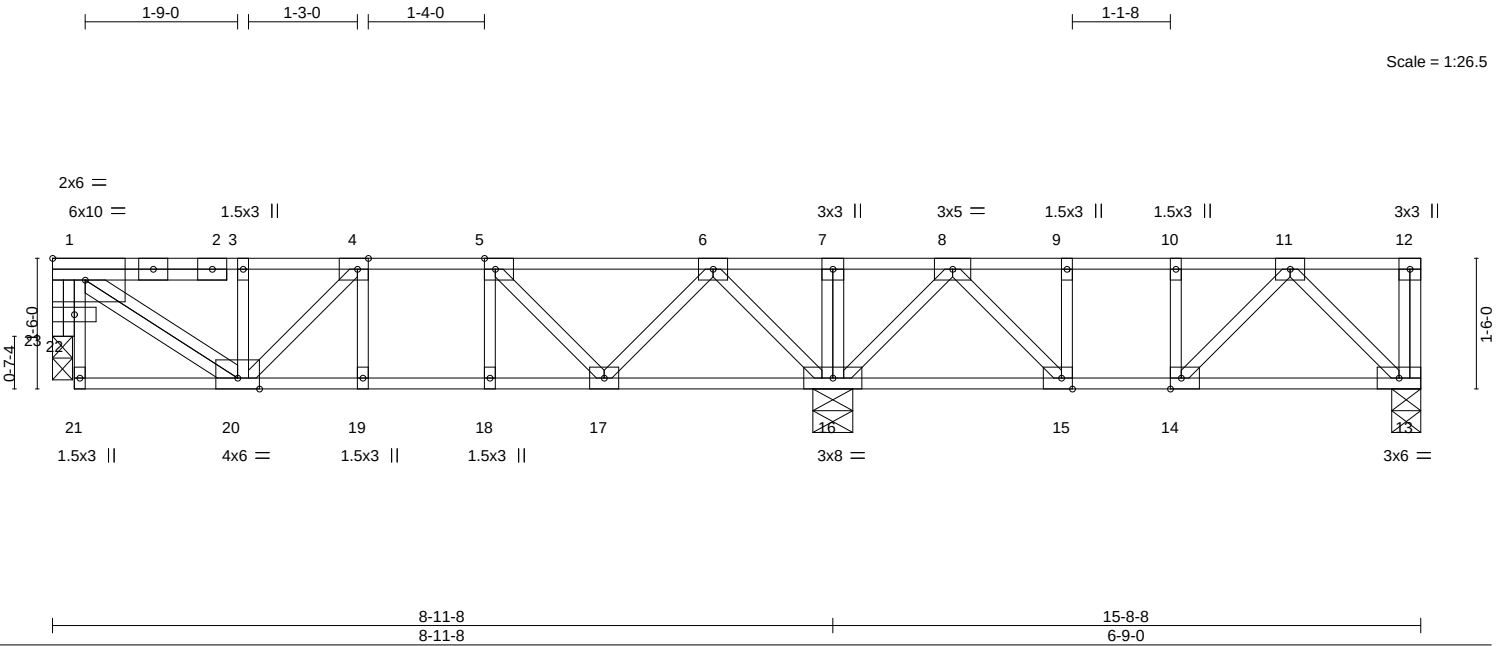

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.05	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.06	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 97 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 16=0-5-8, 23=0-2-12
Max Grav 13=792(LC 7), 16=2179(LC 1), 23=994(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1135/0, 3-4=-1148/0, 4-5=-1537/0, 5-6=-1097/0, 6-7=0/826, 7-8=0/826, 8-9=-896/85, 9-10=-896/85, 10-11=-896/85
BOT CHORD	19-20=0/1537, 18-19=0/1537, 17-18=0/1537, 16-17=-25/631, 15-16=-319/543, 14-15=-85/896, 13-14=0/647
WEBS	7-16=-285/0, 6-16=-1560/0, 6-17=0/784, 5-17=-777/0, 1-20=0/1258, 3-20=-438/1, 4-20=-541/0, 8-16=-1180/0, 8-15=0/800, 9-15=-480/0, 11-13=-915/0, 11-14=-141/361, 10-14=-253/73, 1-23=-1017/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385518
PRYOR-F2B	C8	Floor	2	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:06 2021 Page 1
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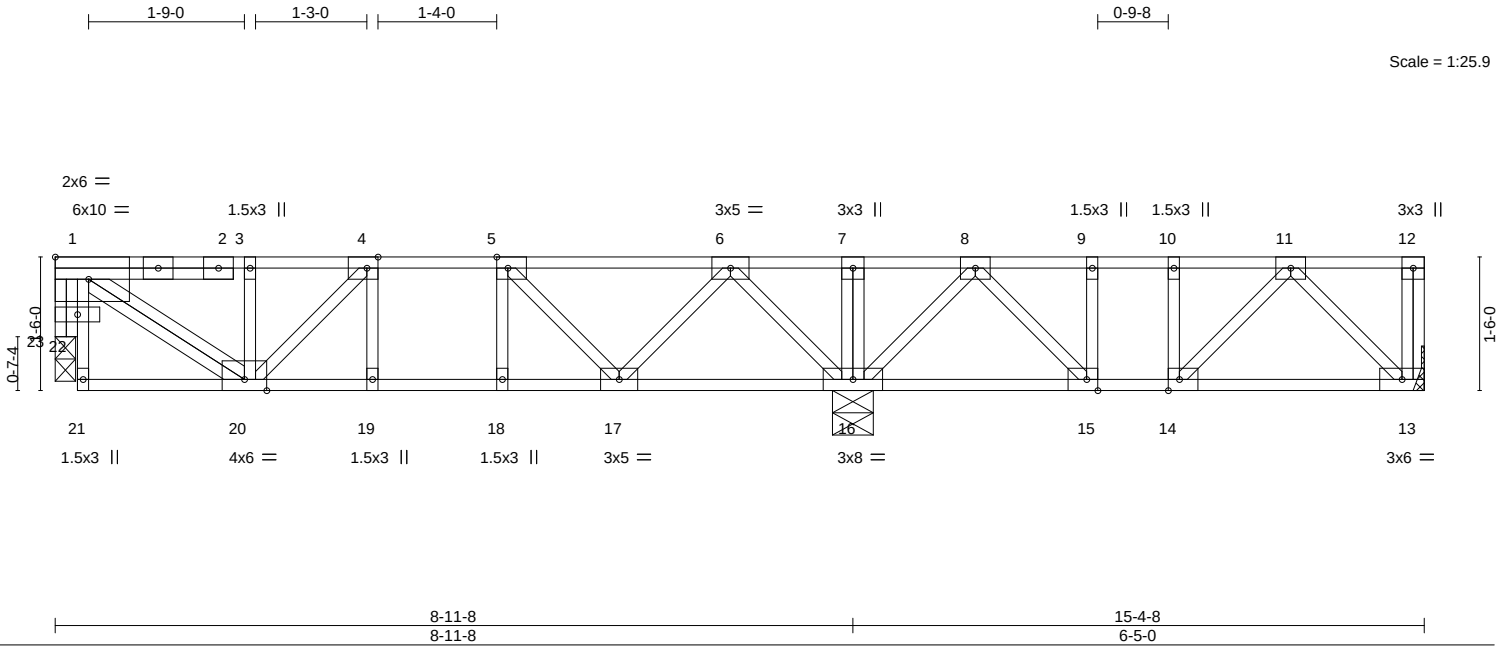

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.05	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.06	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 96 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 16=0-5-8, 23=0-2-12
Max Grav 13=747(LC 7), 16=2185(LC 1), 23=968(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1103/0, 3-4=-1116/0, 4-5=-1460/0, 5-6=-983/0, 6-7=0/959, 7-8=0/959, 8-9=-805/153, 9-10=-805/153, 10-11=-805/153
BOT CHORD	19-20=0/1460, 18-19=0/1460, 17-18=0/1460, 16-17=-44/492, 15-16=-401/499, 14-15=-153/805, 13-14=-24/603
WEBS	7-16=-283/0, 6-16=-1568/0, 6-17=0/793, 5-17=-790/0, 1-20=0/1221, 3-20=-439/0, 4-20=-490/0, 8-16=-1177/0, 8-15=0/774, 9-15=-454/0, 11-13=-853/34, 11-14=-188/292, 1-23=-992/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C9	Floor	2	1	I49385519
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-r4qlEiTPKDiKy6lAMb8uHQTlVjLUUkEIdKWInLy6ixU

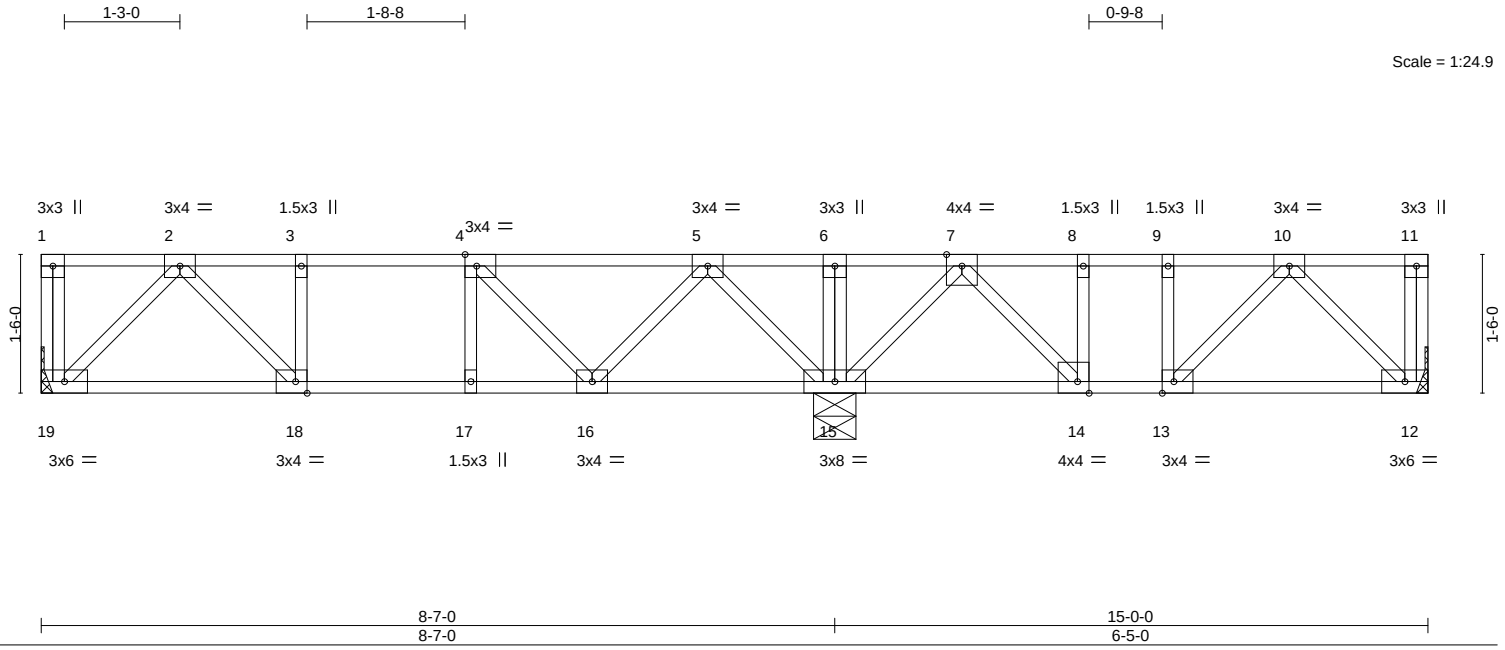

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.05	16-17	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.06	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=Mechanical, 12=Mechanical, 15=0-5-8
Max Uplift 12=-34(LC 3)
Max Grav 19=924(LC 10), 12=746(LC 7), 15=2214(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1217/0, 3-4=-1217/0, 4-5=-764/0, 5-6=0/1165, 6-7=0/1165, 7-8=-803/253, 8-9=-803/253, 9-10=-803/253
BOT CHORD 18-19=0/781, 17-18=0/1217, 16-17=0/1217, 15-16=-113/276, 14-15=-558/495, 13-14=-253/803, 12-13=-68/602
WEBS 6-15=-284/0, 2-19=-1104/0, 2-18=0/631, 5-15=-1557/0, 5-16=0/776, 4-16=-744/0, 3-18=-389/0, 7-15=-1240/0, 7-14=0/858, 8-14=-495/0, 10-12=-852/96, 10-13=-268/291

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C10	Floor	5	1	I49385520
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:54 2021 Page 1
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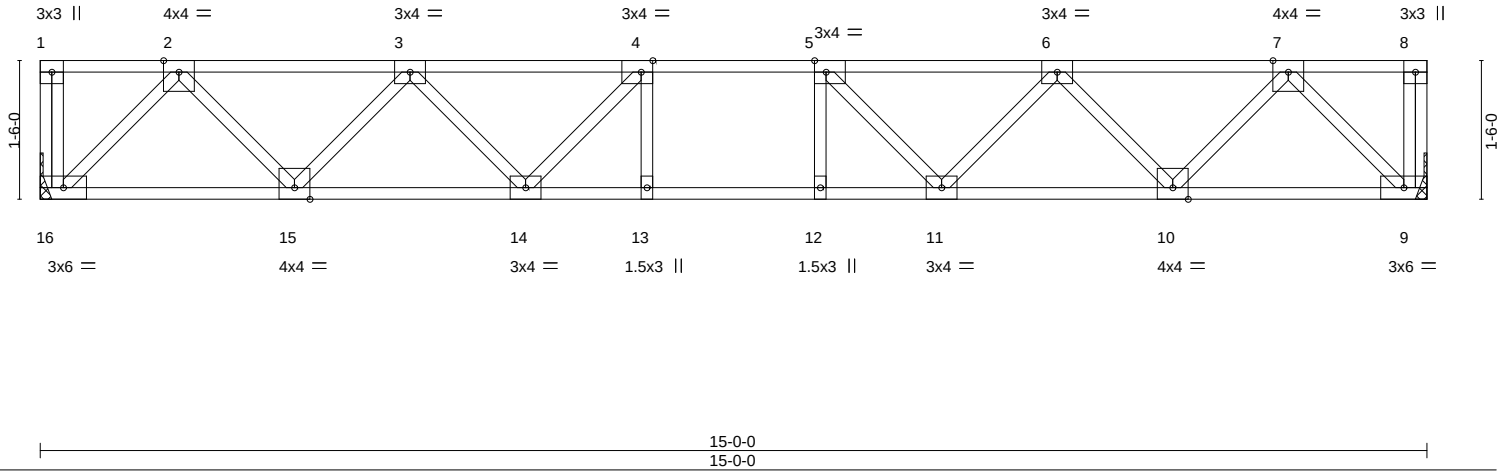
Scale = 1:24.9



15-0-0
15-0-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.16	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.19	13-14	>916	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Grav 16=1229(LC 1), 9=1229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1893/0, 3-4=-2945/0, 4-5=-3281/0, 5-6=-2945/0, 6-7=-1893/0
BOT CHORD 15-16=0/1154, 14-15=0/2614, 13-14=0/3281, 12-13=0/3281, 11-12=0/3281, 10-11=0/2614, 9-10=0/1154
WEBS 2-16=-1632/0, 2-15=0/1098, 3-15=-1073/0, 3-14=0/563, 4-14=-744/0, 7-9=-1632/0, 7-10=0/1098, 6-10=-1073/0, 6-11=0/563, 5-11=-744/0, 5-12=-256/275, 4-13=-256/275

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C11	Floor	8	1	I49385521
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:55 2021 Page 1
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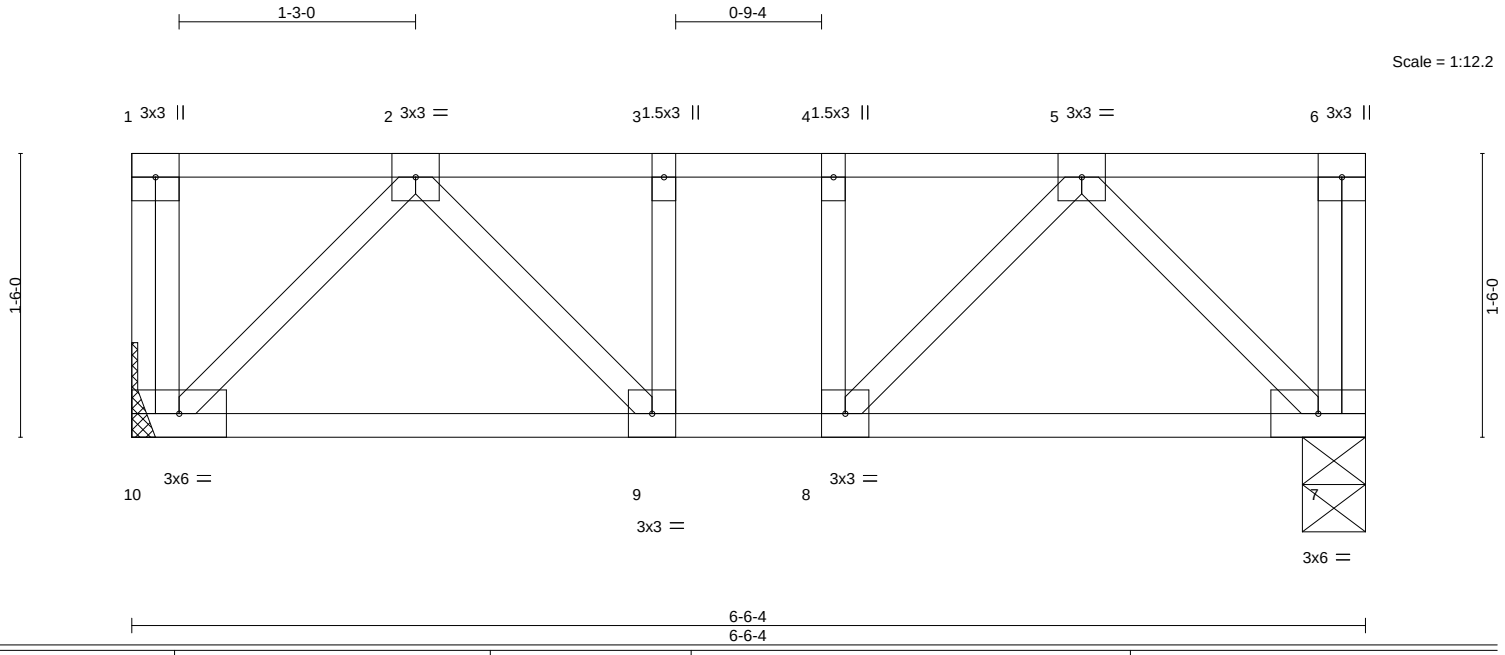

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=408(LC 1), 7=408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-465/0, 3-4=-465/0, 4-5=-465/0
BOT CHORD	9-10=0/330, 8-9=0/465, 7-8=0/330
WEBS	2-10=-467/0, 5-7=-467/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385522
PRYOR-F2B	C13	Floor	4	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:56 2021 Page 1
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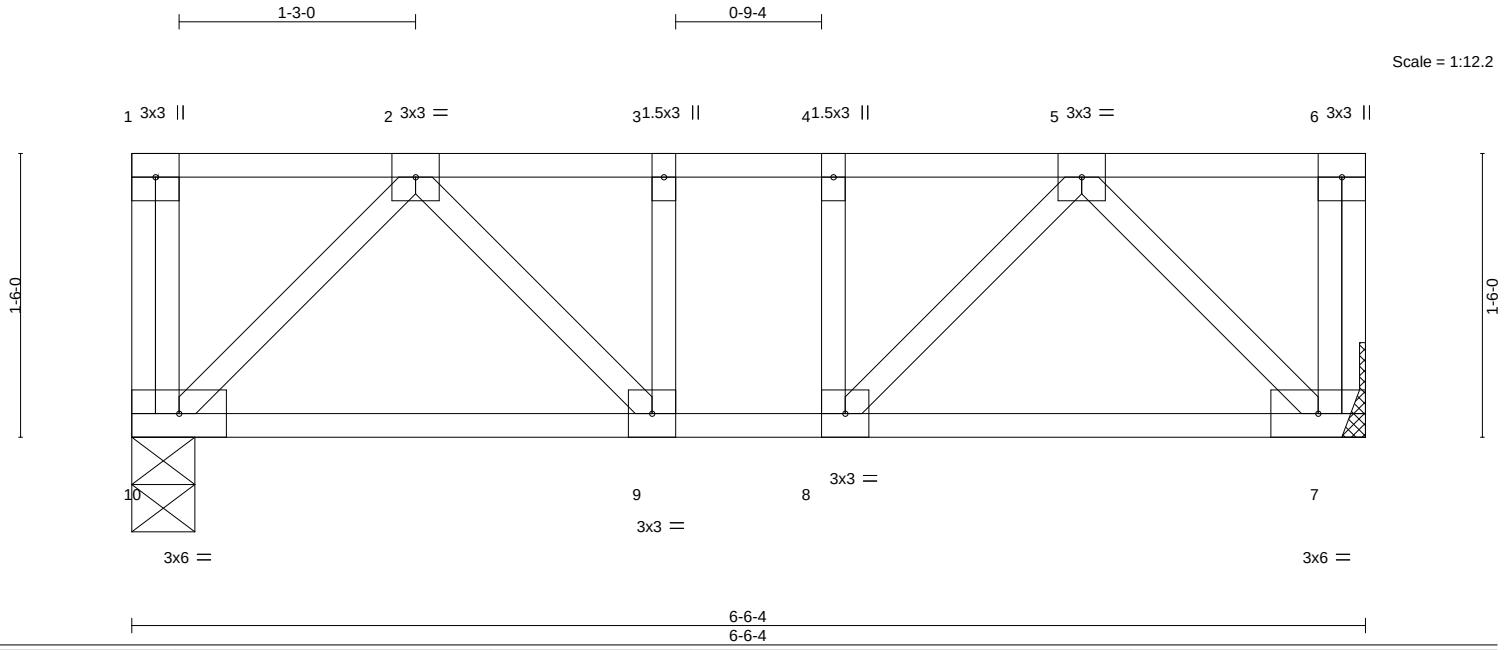

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD 9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS 2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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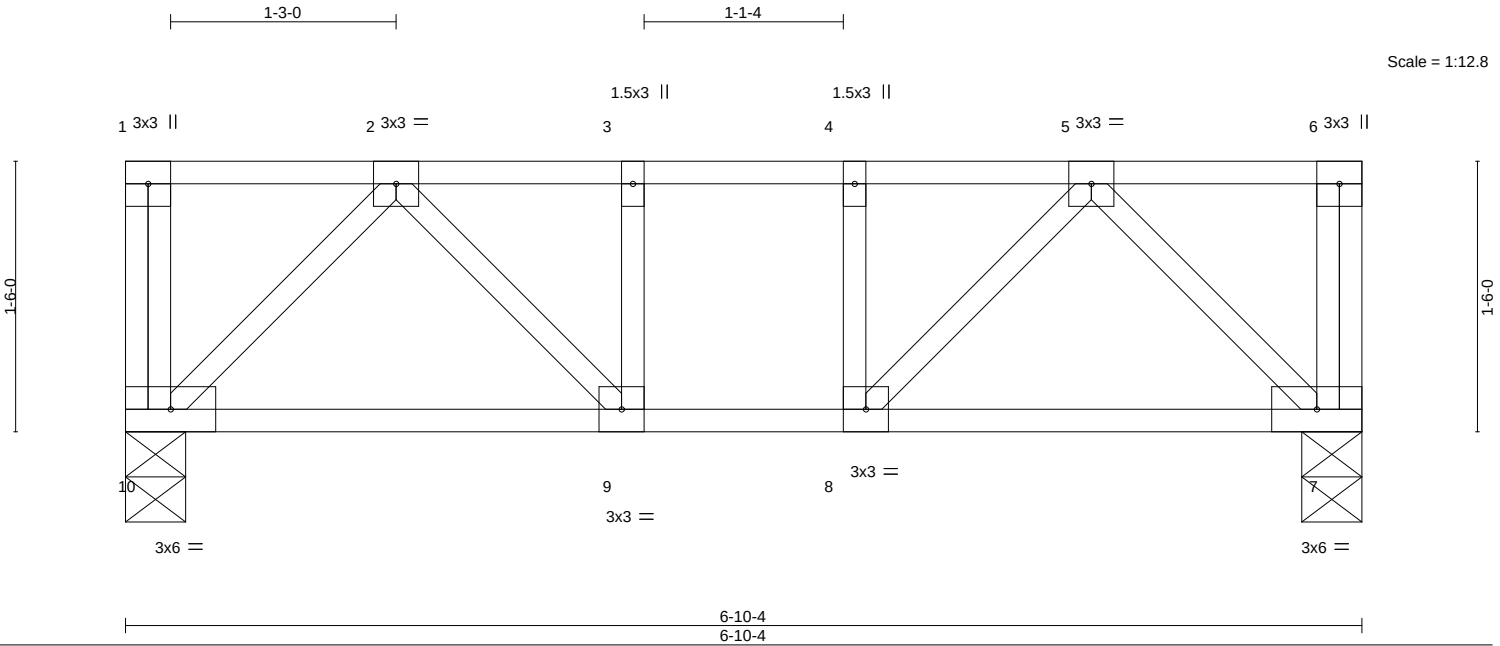
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C14	Floor	22	1	I49385523
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:56 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-fyfawxKVwrKu7QP3DnRJK6V?CHeoPp7h56LDuTy6ixf



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385524
PRYOR-F2B	C15	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:57 2021 Page 1
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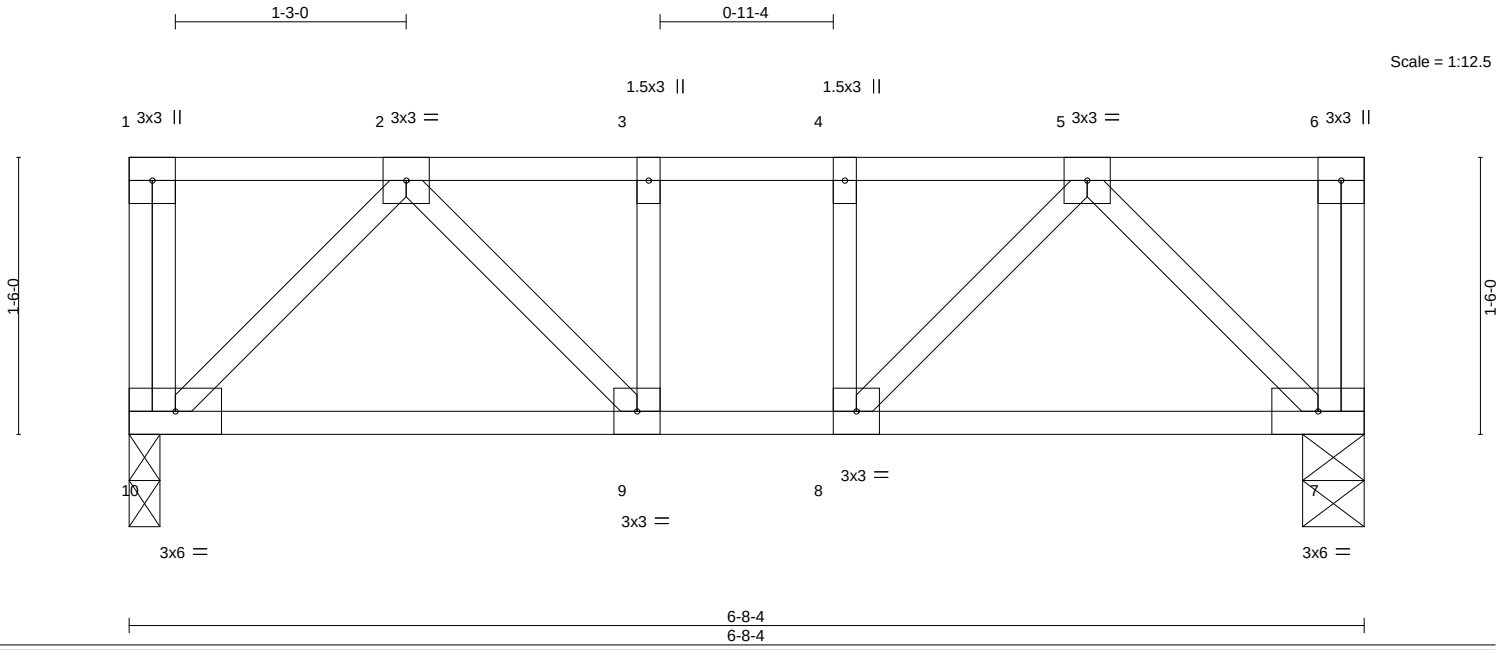

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/469, 3-9=-266/0, 5-7=-934/0, 5-8=0/469, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C16	Floor	2	1	I49385525
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:58 2021 Page 1
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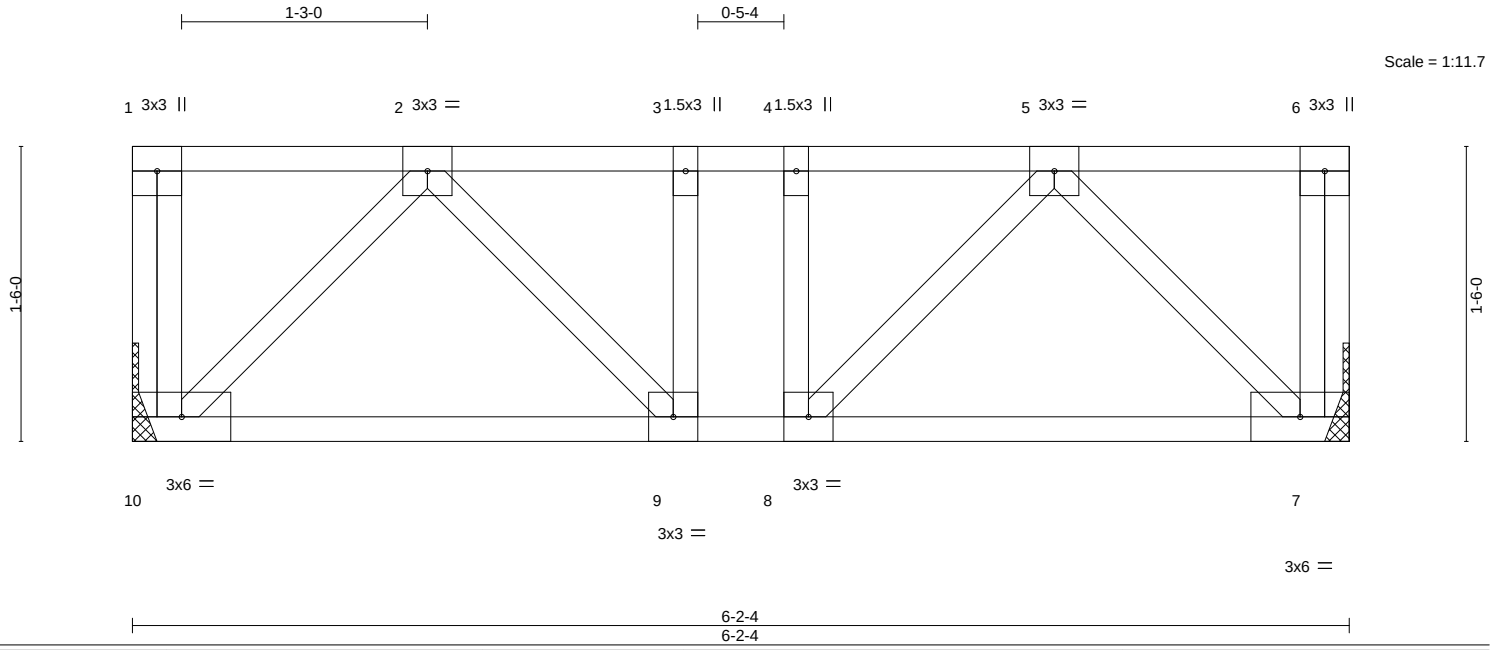

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=386(LC 1), 7=386(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-422/0, 3-4=-422/0, 4-5=-422/0
BOT CHORD 9-10=0/309, 8-9=0/422, 7-8=0/309
WEBS 2-10=-437/0, 5-7=-437/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	C17	Floor	5	1	I49385526
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:41:58 2021 Page 1
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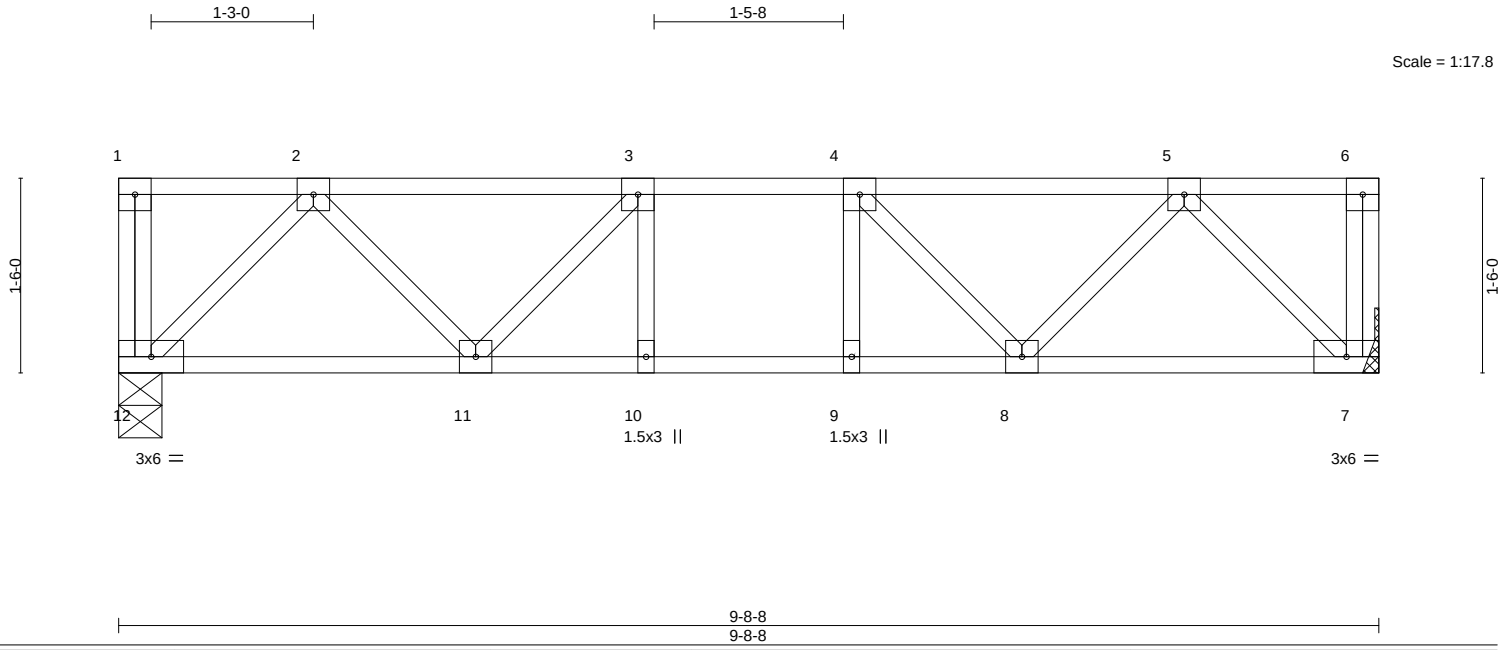

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=Mechanical
Max Grav 12=788(LC 1), 7=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1042/0, 3-4=-1360/0, 4-5=-1042/0
BOT CHORD	11-12=0/725, 10-11=0/1360, 9-10=0/1360, 8-9=0/1360, 7-8=0/725
WEBS	2-12=-1025/0, 2-11=0/472, 3-11=-500/0, 5-7=-1025/0, 5-8=0/472, 4-8=-500/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F1	Floor	7	1	I49385527
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:09 2021 Page 1
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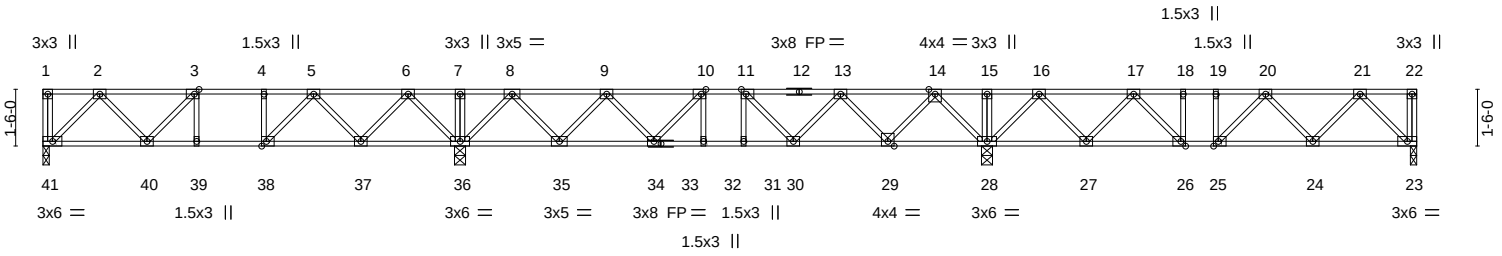
1-3-0 1-7-14 0-11-4 0-8-14

Scale = 1:60.9



11-0-6 24-11-10 36-4-0
11-0-6 13-11-4 11-4-6

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.07	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 36=0-3-8, 28=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=617(LC 5), 23=628(LC 5), 36=1774(LC 3), 28=1881(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-823/0, 3-4=-1052/0, 4-5=-1052/0, 5-6=-444/281, 6-7=0/1261, 7-8=0/1261, 8-9=-465/212, 9-10=-1143/0, 10-11=-1313/0, 11-13=-1078/0, 13-14=-308/282, 14-15=0/1438, 15-16=0/1438, 16-17=-394/458, 17-18=-1066/0, 18-19=-1066/0, 19-20=-1066/0, 20-21=-850/0
BOT CHORD 40-41=0/566, 39-40=0/1052, 38-39=0/1052, 37-38=-53/853, 36-37=-519/21, 35-36=-444/0, 34-35=-32/953, 32-34=0/1313, 31-32=0/1313, 30-31=0/1313, 29-30=-83/840, 28-29=-550/0, 27-28=-723/0, 26-27=-203/833, 25-26=0/1066, 24-25=0/1091, 23-24=0/572
WEBS 2-41=-801/0, 2-40=0/382, 3-40=-331/48, 6-36=-1109/0, 6-37=0/698, 5-37=-698/0, 5-38=0/493, 8-36=-1185/0, 8-35=0/803, 9-35=-774/0, 9-34=0/333, 10-34=-315/0, 14-28=-1266/0, 14-29=0/878, 13-29=-846/0, 13-30=0/414, 11-30=-421/0, 16-28=-1182/0, 16-27=0/770, 17-27=-763/0, 17-26=0/554, 21-23=-810/0, 21-24=0/413, 20-24=-359/13, 20-25=-288/0, 18-26=-271/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F2	Floor	5	1	I49385528
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:22 2021 Page 1
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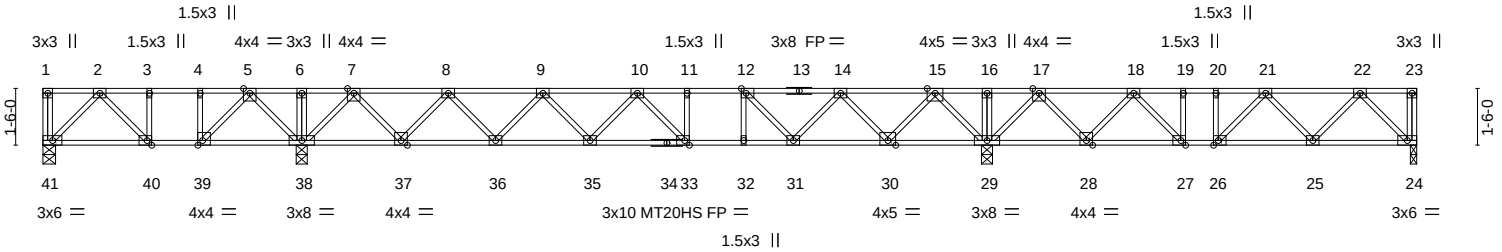

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-10-2 24-11-10 36-4-0
6-10-2 18-1-8 11-4-6

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.27	33-35	>797	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-137(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=315(LC 5), 24=605(LC 5), 38=1922(LC 3), 29=2189(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-230/538, 3-4=-230/538, 4-5=-230/538, 5-6=0/1560, 6-7=0/1560, 7-8=-422/0, 8-9=-1583/0, 9-10=-2214/0, 10-11=-2116/0, 11-12=-2116/0, 12-14=-1517/0, 14-15=-266/228, 15-16=0/1929, 16-17=0/1929, 17-18=-251/871, 18-19=-974/253, 19-20=-974/253, 20-21=-974/253, 21-22=-808/0
BOT CHORD 39-40=-538/230, 38-39=-1048/0, 37-38=-489/0, 36-37=0/1135, 35-36=0/2033, 33-35=0/2326, 32-33=0/2116, 31-32=0/2116, 30-31=0/1018, 29-30=-781/0, 28-29=-1193/0, 27-28=-551/713, 26-27=-253/974, 25-26=-44/1027, 24-25=0/550
WEBS 2-41=-331/252, 2-40=-521/0, 5-38=-932/0, 5-39=0/902, 4-39=-472/0, 15-29=-1623/0, 15-30=0/1198, 14-30=-1154/0, 14-31=0/786, 12-31=-930/0, 12-32=0/314, 7-38=-1544/0, 7-37=0/1159, 8-37=-1106/0, 8-36=0/684, 9-36=-674/0, 9-35=0/275, 10-33=-474/18, 17-29=-1264/0, 17-28=0/847, 18-28=-852/0, 18-27=0/675, 19-27=-314/0, 22-24=-778/0, 22-25=-39/383, 21-25=-325/108, 21-26=-409/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 41.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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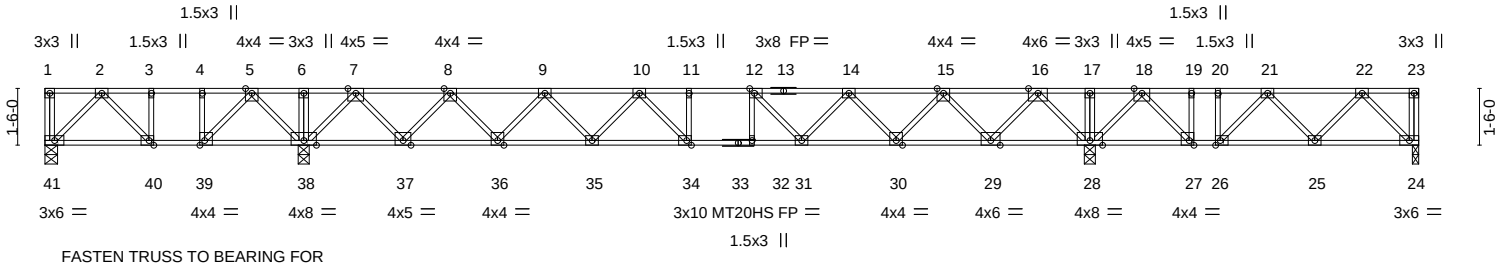
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F3	Floor	3	1	I49385529
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:32 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-curBUFm4RvsnSyA_KL5loi?03op5r_p_Nj37AOy6ix5

1-3-0 1-2-10 1-6-8 0-6-14

Scale = 1:60.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-10-2	27-7-10	36-4-0
6-10-2	20-9-8	8-8-6

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [34:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.19	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.31	34-35	>799	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-210(LC 6), 24=-193(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=282(LC 5), 24=383(LC 5), 38=2133(LC 3), 28=2389(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-148/714, 3-4=-148/714, 4-5=-148/714, 5-6=0/1927, 6-7=0/1927, 7-8=-346/0, 8-9=-1778/0, 9-10=-2632/0, 10-11=-2860/0, 11-12=-2860/0, 12-14=-2433/0, 14-15=-1405/0, 15-16=0/297, 16-17=0/2611, 17-18=0/2611, 18-19=-95/1329, 19-20=-95/1329, 20-21=-95/1329, 21-22=-391/481
BOT CHORD 39-40=-714/148, 38-39=-1332/0, 37-38=-703/0, 36-37=0/1203, 35-36=0/2341, 34-35=0/2878, 32-34=0/2860, 31-32=0/2860, 30-31=0/2048, 29-30=0/736, 28-29=-1291/0, 27-28=-1946/0, 26-27=-1329/95, 25-26=-807/403, 24-25=-216/329
WEBS 2-41=-284/352, 2-40=-674/0, 3-40=0/339, 5-38=-1027/0, 5-39=0/1058, 4-39=-562/0, 22-24=-465/305, 22-25=-395/92, 21-25=-18/484, 21-26=-919/0, 20-26=0/414, 18-28=-1242/0, 18-27=0/1197, 19-27=-605/0, 7-38=-1738/0, 7-37=0/1348, 8-37=-1296/0, 8-36=0/875, 9-36=-856/0, 9-35=0/449, 10-35=-383/0, 10-34=-254/297, 16-28=-1867/0, 16-29=0/1477, 15-29=-1436/0, 15-30=0/1008, 14-30=-969/0, 14-31=0/601, 12-31=-727/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 41 and 193 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

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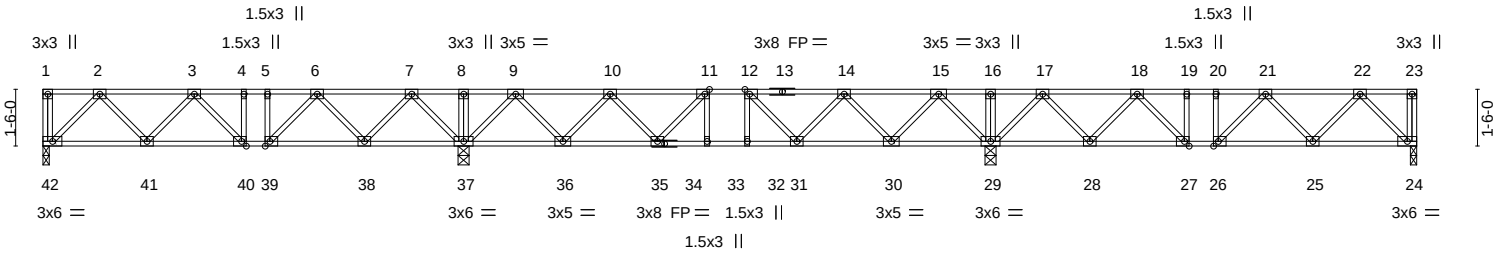
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385530
PRYOR-F2B	F4	Floor	7	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:40 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-NQKD9_s6ZMsfPBnWo0Ee6OKSy0eQjgX9Cy?YRwy6iwz

1-3-0 0-6-0 0-11-4 0-7-12

Scale = 1:60.9



11-1-8 25-0-12 36-4-0
11-1-8 13-11-4 11-3-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=622(LC 5), 37=1841(LC 3), 29=1842(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/11, 4-5=-1012/11, 5-6=-1012/11, 6-7=-379/466, 7-8=0/1431, 8-9=0/1431, 9-10=-261/291, 10-11=-990/12, 11-12=-1196/0, 12-14=-996/12, 14-15=-275/291, 15-16=0/1414, 16-17=0/1414, 17-18=-393/446, 18-19=-1048/0, 19-20=-1048/0, 20-21=-1048/0, 21-22=-839/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-11/1012, 38-39=-214/804, 37-38=-731/0, 36-37=-568/0, 35-36=-102/774, 33-35=0/1196, 32-33=0/1196, 31-32=0/1196, 30-31=-102/785, 29-30=-558/0, 28-29=-709/0, 27-28=-194/826, 26-27=0/1048, 25-26=0/1076, 24-25=0/567
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1164/0, 7-38=0/756, 6-38=-743/0, 6-39=0/513, 3-40=-295/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 22-24=-802/0, 22-25=0/405, 21-25=-353/13, 21-26=-287/0, 17-29=-1171/0, 17-28=0/761, 18-28=-751/0, 18-27=0/534, 19-27=-259/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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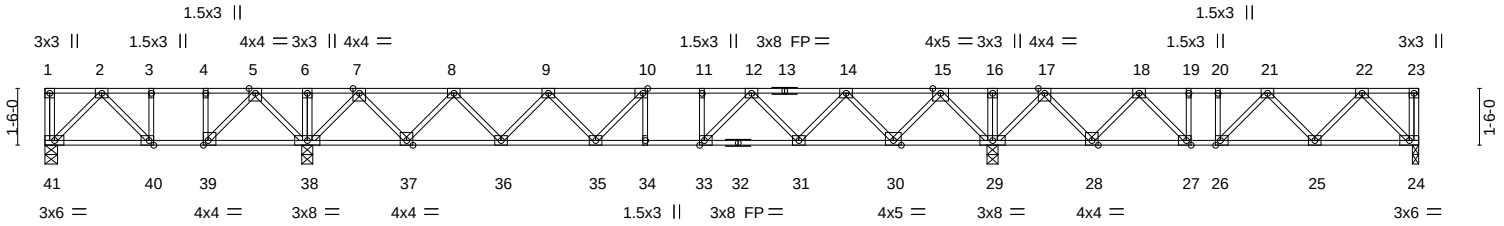
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F5	Floor	5	1	I49385531
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:50 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4Lw?FP_NCR7EcjYRO6P_WVl5b2yI38zeVWQ4nLy6iwp

1-3-0 1-3-12 1-4-8 07-12

Scale = 1:60.9



	6-11-4	25-0-12	36-4-0
	6-11-4	18-1-8	11-3-4

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.22	34-35	>967	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=337(LC 5), 24=590(LC 5), 38=1866(LC 3), 29=2229(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/451, 3-4=-277/451, 4-5=-277/451, 5-6=0/1402, 6-7=0/1402, 7-8=-543/0, 8-9=-1666/0, 9-10=-2223/0, 10-11=-2270/0, 11-12=-2270/0, 12-14=-1442/0, 14-15=-167/275, 15-16=0/2081, 16-17=0/2081, 17-18=-188/985, 18-19=-915/336, 19-20=-915/336, 20-21=-915/336, 21-22=-777/15
BOT CHORD 40-41=-139/255, 39-40=-451/277, 38-39=-919/0, 37-38=-353/0, 36-37=0/1232, 35-36=0/2098, 34-35=0/2270, 33-34=0/2270, 31-33=0/1936, 30-31=0/953, 29-30=-916/0, 28-29=-1323/0, 27-28=-651/653, 26-27=-336/915, 25-26=-106/983, 24-25=0/534
WEBS 2-41=-361/196, 2-40=-453/32, 5-38=-887/0, 5-39=0/847, 4-39=-448/0, 7-38=-1513/0, 7-37=0/1122, 8-37=-1073/0, 8-36=0/666, 9-36=-646/0, 15-29=-1647/0, 15-30=0/1248, 14-30=-1209/0, 14-31=0/765, 12-31=-779/0, 12-33=0/673, 11-33=-286/0, 22-24=-755/0, 22-25=-69/362, 21-25=-306/136, 21-26=-445/0, 17-29=-1284/0, 17-28=0/868, 18-28=-869/0, 18-27=0/692, 19-27=-332/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F6	Floor	3	1	I49385532
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:57 2021 Page 1
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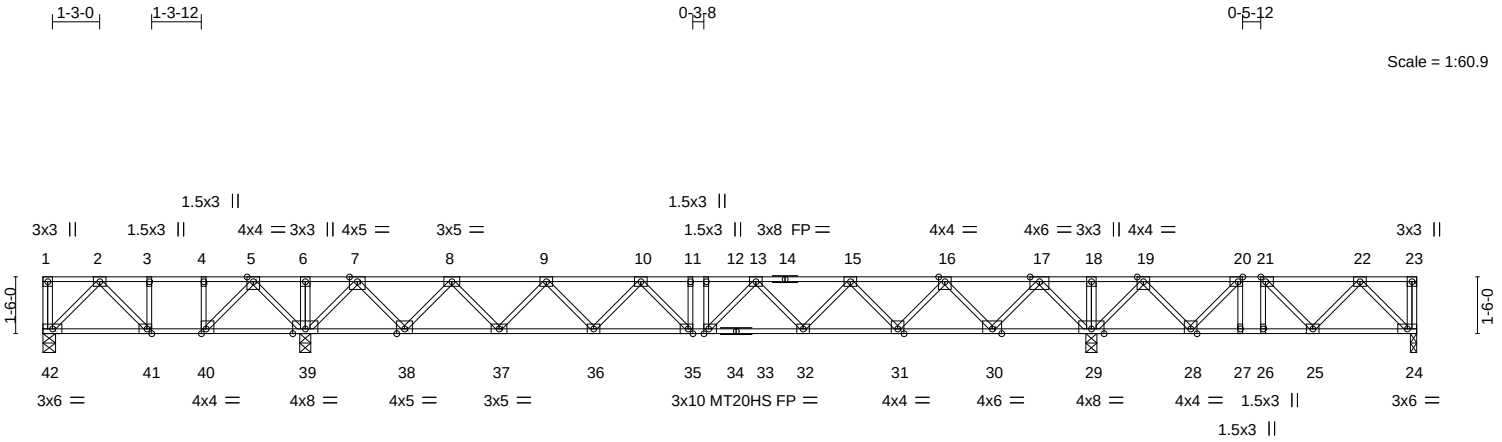

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-4	27-8-12	36-4-0
6-11-4	20-9-8	8-7-4

Plate Offsets (X,Y)-- [20:0-1-8,Edge], [21:0-1-8,Edge], [34:0-1-8,Edge], [35:0-1-8,Edge], [40:0-1-8,Edge], [41:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.18	35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.29	35-36	>865	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-14: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-4-0, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 42=-163(LC 6), 24=-238(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 42=309(LC 5), 24=349(LC 5), 39=2067(LC 3), 29=2471(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-209/612, 3-4=-209/612, 4-5=-209/612, 5-6=0/1730, 6-7=0/1730, 7-8=-502/0, 8-9=-1875/0, 9-10=-2654/0, 10-11=-2889/0, 11-12=-2889/0, 12-13=-2889/0, 13-15=-2351/0, 15-16=-1276/0, 16-17=0/573, 17-18=0/2907, 18-19=0/2907, 19-20=0/1641, 20-21=-257/1047, 21-22=-310/588
BOT CHORD 40-41=-612/209, 39-40=-1182/0, 38-39=-538/0, 37-38=0/1329, 36-37=0/2403, 35-36=0/2893, 34-35=0/2889, 32-34=0/2730, 31-32=0/1953, 30-31=0/578, 29-30=-1550/0, 28-29=-2150/0, 27-28=-1047/257, 26-27=-1047/257, 25-26=-1047/257, 24-25=-245/303
WEBS 2-42=-325/280, 2-41=-600/0, 3-41=-12/316, 5-39=-967/0, 5-40=0/998, 4-40=-549/0, 7-39=-1697/0, 7-38=0/1308, 8-38=-1259/0, 8-37=0/840, 9-37=-813/0, 9-36=0/402, 10-36=-361/0, 10-35=-270/263, 17-29=-1919/0, 17-30=0/1506, 16-30=-1482/0, 16-31=0/1065, 15-31=-1028/0, 15-32=0/615, 13-32=-587/0, 13-34=-78/457, 19-29=-1314/0, 19-28=0/963, 20-28=-1078/0, 22-24=-429/346, 22-25=-510/10, 21-25=0/665, 21-26=-449/0, 20-27=0/462

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 42 and 238 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385533
PRYOR-F2B	F7	Floor	3	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:04 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-g2mIBB99vkuFItc7C3fG5SKcwio7LY9hkhppHXy6iwb

1-3-0 1-6-12

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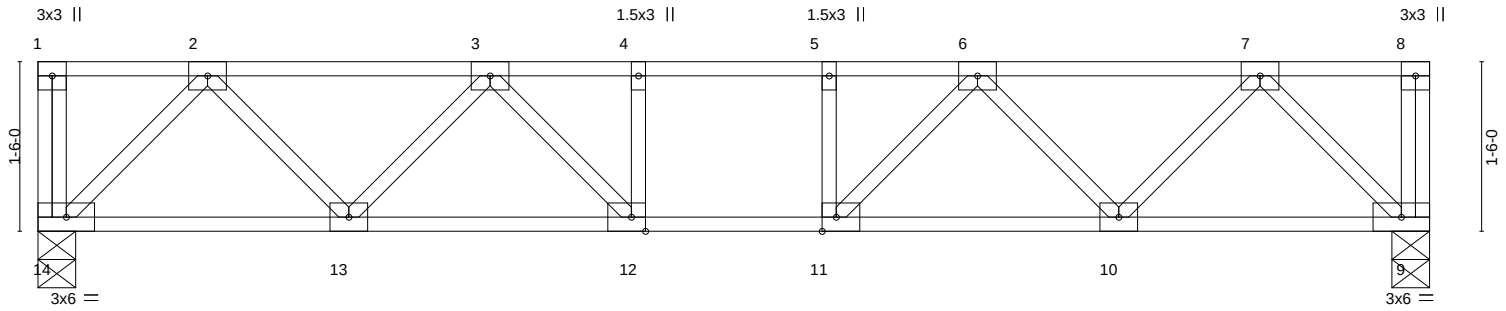

12-3-12
12-3-12

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F8	Floor	13	1	I49385534
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:04 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-g2mIBB99vkuFItc7C3fG5SKcTipRLYEhkhppHXy6iwb

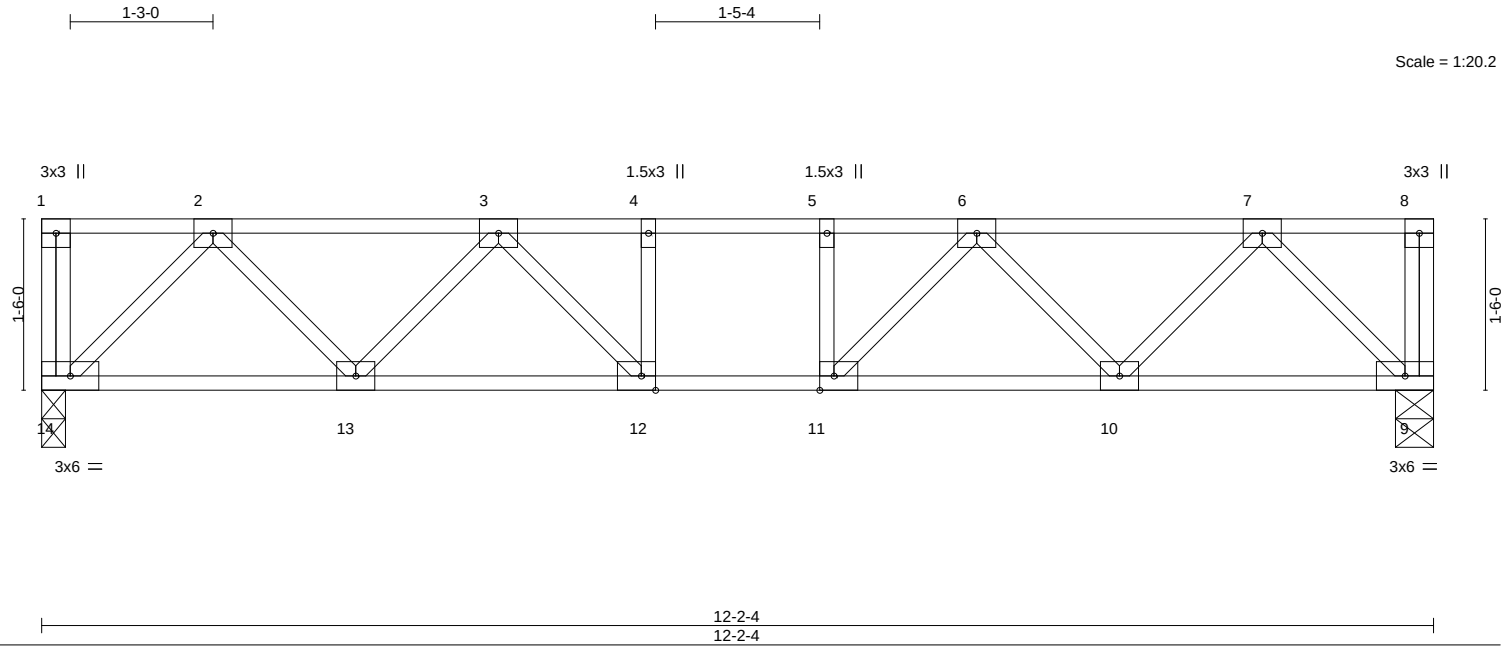

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-4-0
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F9	Floor	2	1	I49385535
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:05 2021 Page 1
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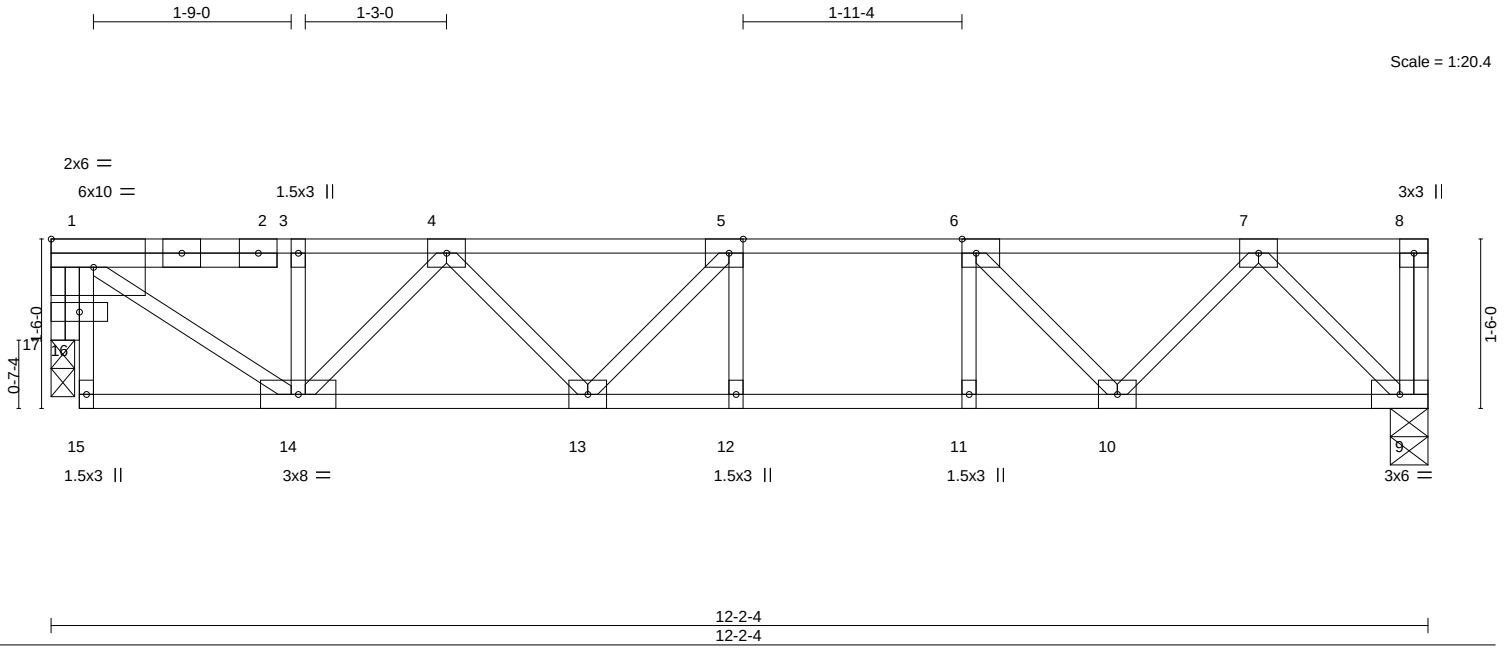

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.17	12-13	>847	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-14: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 17=0-2-8
Max Grav 9=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-955/0, 3-4=-951/0, 4-5=-1556/0, 5-6=-1618/0, 6-7=-1124/0
BOT CHORD 13-14=0/1406, 12-13=0/1618, 11-12=0/1618, 10-11=0/1618, 9-10=0/702
WEBS 1-14=0/1048, 4-14=-658/0, 4-13=0/277, 5-13=-260/51, 7-9=-993/0, 7-10=0/627, 6-10=-723/0, 1-17=-775/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F10	Floor	3	1	I49385536
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:10 2021 Page 1
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1-3-0 1-11-14

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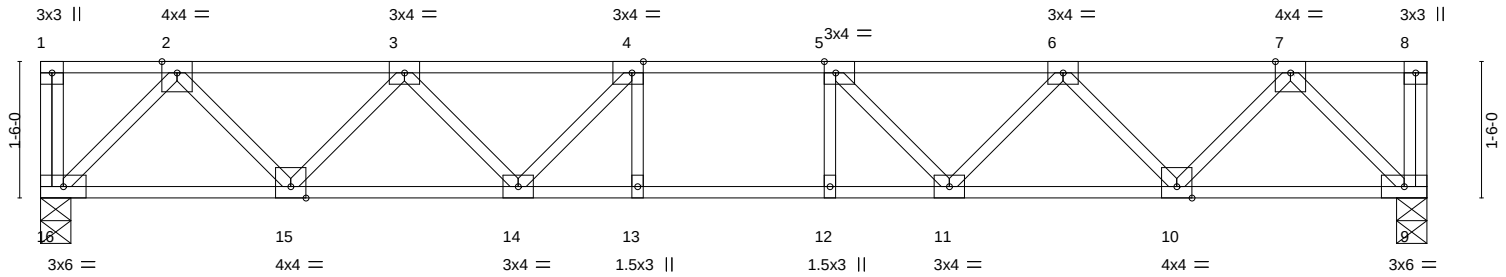

15-2-14
15-2-14

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.18	13-14	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-0, 9=0-4-0
Max Grav 16=974(LC 1), 9=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1509/0, 3-4=-2358/0, 4-5=-2635/0, 5-6=-2358/0, 6-7=-1509/0
BOT CHORD 15-16=0/913, 14-15=0/2079, 13-14=0/2635, 12-13=0/2635, 11-12=0/2635, 10-11=0/2079, 9-10=0/913
WEBS 2-16=-1291/0, 2-15=0/887, 3-15=-847/0, 3-14=0/463, 4-14=-561/0, 7-9=-1291/0, 7-10=0/887, 6-10=-847/0, 6-11=0/463, 5-11=-561/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F11	Floor	6	1	I49385537
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:11 2021 Page 1
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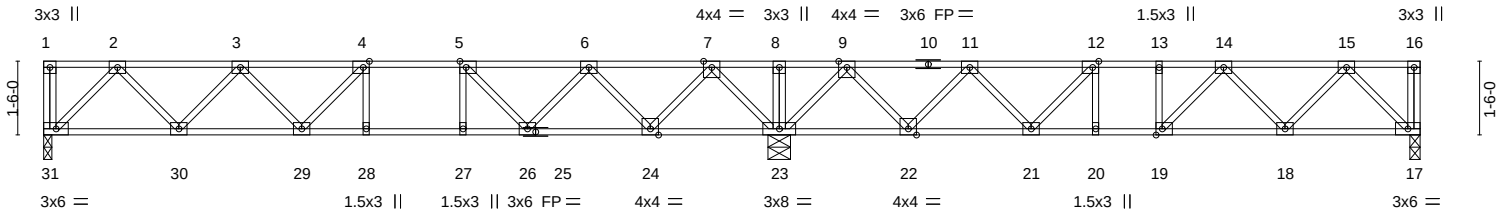

14-11-10 28-0-2
14-11-10 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	28-29	>955	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=855(LC 3), 17=724(LC 4), 23=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1282/0, 3-4=-1912/0, 4-5=-1995/0, 5-6=-1549/0, 6-7=-513/317, 7-8=0/1695, 8-9=0/1695, 9-11=-387/461, 11-12=-1204/0, 12-13=-1457/0, 13-14=-1457/0, 14-15=-1028/0
BOT CHORD 30-31=0/790, 29-30=0/1755, 28-29=0/1995, 27-28=0/1995, 26-27=0/1995, 24-26=-25/1166, 23-24=-760/0, 22-23=-761/0, 21-22=-186/943, 20-21=0/1457, 19-20=0/1457, 18-19=0/1363, 17-18=0/667
WEBS 2-31=-1117/0, 2-30=0/732, 3-30=-703/0, 7-23=-1476/0, 7-24=0/1067, 6-24=-1023/0, 6-26=0/635, 5-26=-786/0, 5-27=0/284, 4-28=-255/0, 9-23=-1336/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 12-21=-555/0, 15-17=-944/0, 15-18=0/536, 14-18=-497/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385538
PRYOR-F2B	F12	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:12 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-B1deHPWX9mLd2ue898k3_UAeokyq9_w2mcD3SYy6ixP

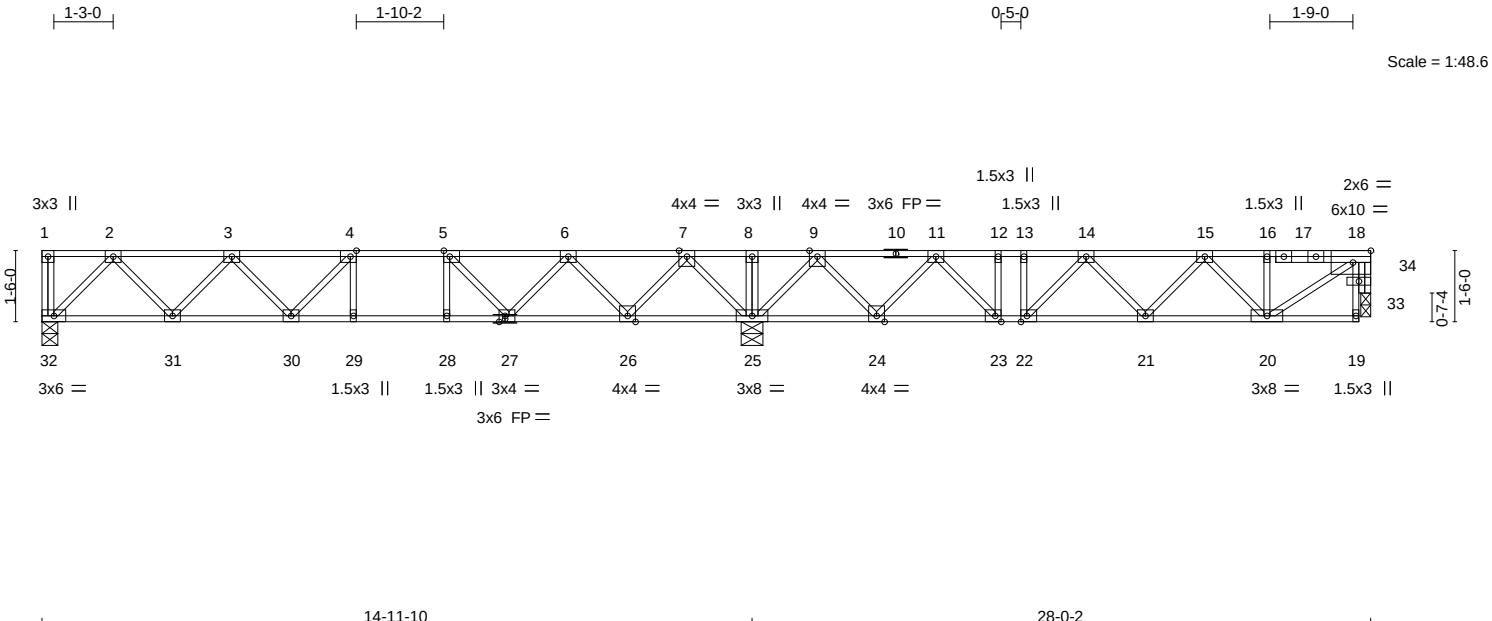

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [18:0-4-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.12	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.19	29-30	>957	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 157 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 25=0-5-8, 34=0-2-8
Max Grav 32=849(LC 3), 25=2133(LC 1), 34=705(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1271/0, 3-4=-1890/0, 4-5=-1964/0, 5-6=-1508/0, 6-7=-460/282, 7-8=0/1714, 8-9=0/1714, 9-11=-408/518, 11-12=-1312/0, 12-13=-1312/0, 13-14=-1312/0, 14-15=-1407/0, 15-16=-887/0, 16-18=-891/0
BOT CHORD	31-32=0/784, 30-31=0/1739, 29-30=0/1964, 28-29=0/1964, 27-28=0/1964, 26-27=0/1118, 25-26=-777/0, 24-25=-831/0, 23-24=-229/956, 22-23=0/1312, 21-22=0/1504, 20-21=0/1271
WEBS	2-32=-1108/0, 2-31=0/725, 3-31=-696/0, 7-25=-1478/0, 7-26=0/1066, 6-26=-1025/0, 6-27=0/637, 5-27=-777/0, 5-28=0/279, 4-29=-251/0, 18-20=0/977, 15-20=-557/0, 14-22=-493/0, 9-25=-1341/0, 9-24=0/923, 11-24=-919/0, 11-23=0/694, 12-23=-324/0, 18-34=-726/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F13	Floor	1	1	I49385539
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:14 2021 Page 1
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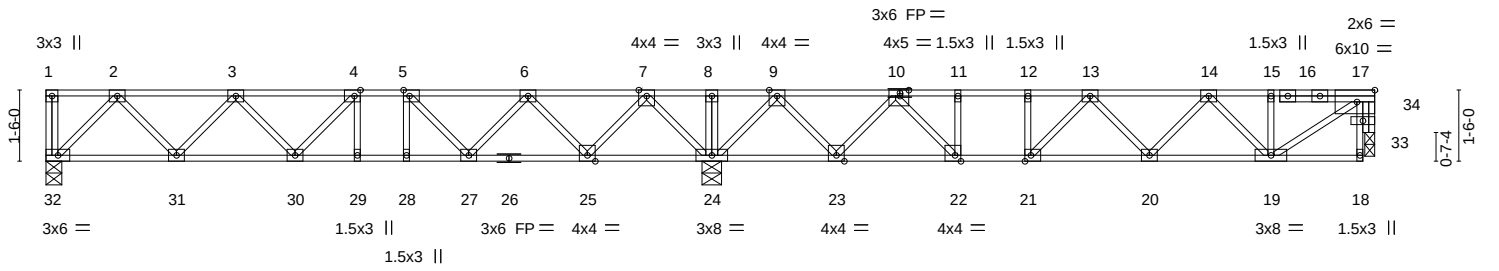

14-0-7 28-0-2
14-0-7 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-2-4,Edge], [17:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.11	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.18	20-21	>931	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 157 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 18-26: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 24=0-4-15, 34=0-2-8
Max Grav 32=790(LC 3), 24=2114(LC 1), 34=776(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1159/0, 3-4=-1670/0, 4-5=-1722/0, 5-6=-1370/0, 6-7=-438/293, 7-8=0/1544, 8-9=0/1544, 9-10=-518/421, 10-11=-1613/0, 11-12=-1613/0, 12-13=-1613/0, 13-14=-1655/0, 14-15=-990/0, 15-17=-993/0
BOT CHORD	31-32=0/726, 30-31=0/1570, 29-30=0/1722, 28-29=0/1722, 27-28=0/1722, 25-27=-17/1046, 24-25=-590/0, 23-24=-718/0, 22-23=-117/1127, 21-22=0/1613, 20-21=0/1799, 19-20=0/1445
WEBS	17-19=0/1094, 14-19=-659/0, 14-20=0/312, 13-21=-487/0, 9-24=-1381/0, 9-23=0/944, 10-23=-988/0, 10-22=0/887, 11-22=-427/0, 2-32=-1027/0, 2-31=0/644, 3-31=-610/0, 7-24=-1388/0, 7-25=0/989, 6-25=-957/0, 6-27=0/541, 5-27=-631/0, 17-34=-798/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F14	Floor	1	1	I49385540
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:15 2021 Page 1
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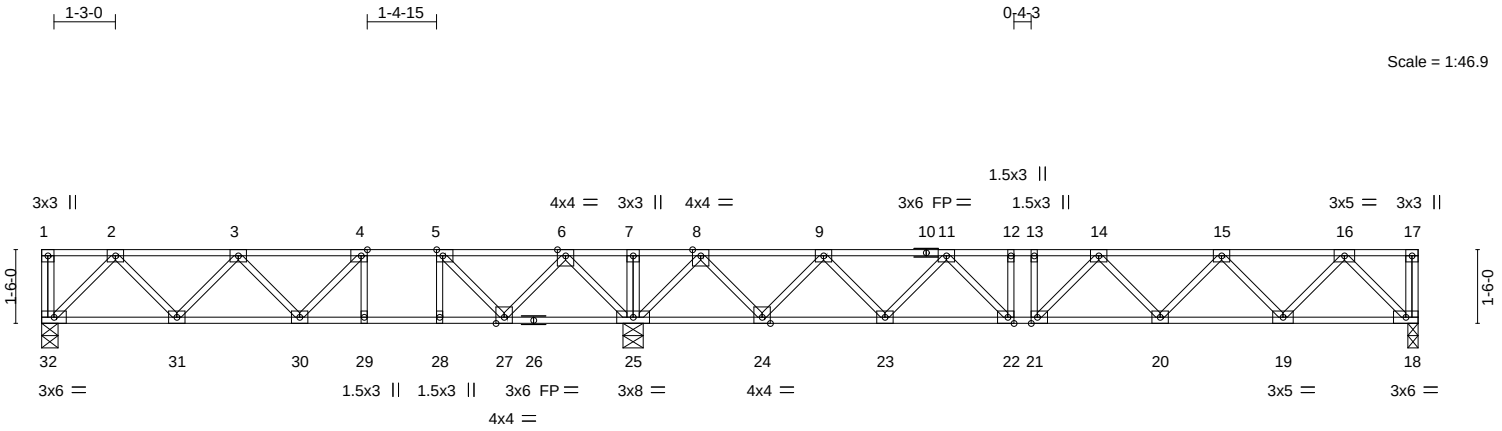

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.10	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.16	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
18-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 18=0-2-8, 25=0-4-15
Max Grav 32=685(LC 3), 18=912(LC 7), 25=2125(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-960/0, 3-4=-1277/0, 4-5=-1137/240, 5-6=-517/669, 6-7=0/1656, 7-8=0/1656, 8-9=-477/22, 9-11=-1647/0, 11-12=-2282/0, 12-13=-2282/0, 13-14=-2282/0, 14-15=-2132/0, 15-16=-1389/0
BOT CHORD 31-32=0/617, 30-31=0/1287, 29-30=-240/1137, 28-29=-240/1137, 27-28=-240/1137, 25-27=-1000/15, 24-25=-564/0, 23-24=0/1208, 22-23=0/2066, 21-22=0/2282, 20-21=0/2331, 19-20=0/1904, 18-19=0/851
WEBS 2-32=-873/0, 2-31=0/509, 3-31=-487/0, 4-30=0/478, 6-25=-1192/0, 6-27=0/886, 5-27=-1102/0, 5-28=0/424, 4-29=-401/0, 8-25=-1545/0, 8-24=0/1152, 9-24=-1124/0, 9-23=0/688, 11-23=-663/0, 11-22=0/481, 16-18=-1203/0, 16-19=0/801, 15-19=-765/0, 15-20=0/339, 14-20=-296/0, 14-21=-280/145

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385541
PRYOR-F2B	F15	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:16 2021 Page 1
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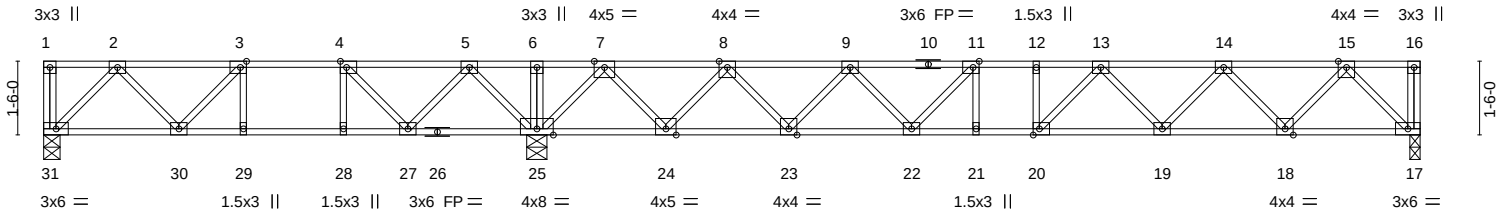

10-0-7 28-0-2
10-0-7 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.17	21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.26	21	>819	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-26: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 25=0-4-15
Max Grav 31=538(LC 3), 17=1055(LC 7), 25=2157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-670/60, 3-4=-769/307, 4-5=-313/760, 5-6=0/1780, 6-7=0/1780, 7-8=-694/0, 8-9=-2087/0, 9-11=-2868/0, 11-12=-3104/0, 12-13=-3104/0, 13-14=-2660/0, 14-15=-1663/0
BOT CHORD 30-31=0/498, 29-30=-307/769, 28-29=-307/769, 27-28=-307/769, 25-27=-1092/0, 24-25=-566/0, 23-24=0/1530, 22-23=0/2620, 21-22=0/3104, 20-21=0/3104, 19-20=0/2994, 18-19=0/2306, 17-18=0/993
WEBS 2-31=-704/0, 2-30=-150/257, 3-30=-143/358, 3-29=-300/0, 5-25=-1075/0, 5-27=0/769, 4-27=-955/0, 4-28=0/330, 7-25=-1717/0, 7-24=0/1313, 8-24=-1288/0, 8-23=0/872, 9-23=-835/0, 9-22=0/474, 15-17=-1405/0, 15-18=0/995, 14-18=-956/0, 14-19=0/526, 13-19=-496/0, 13-20=-158/375, 11-22=-537/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F16	Floor	1	1	I49385542
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:18 2021 Page 1
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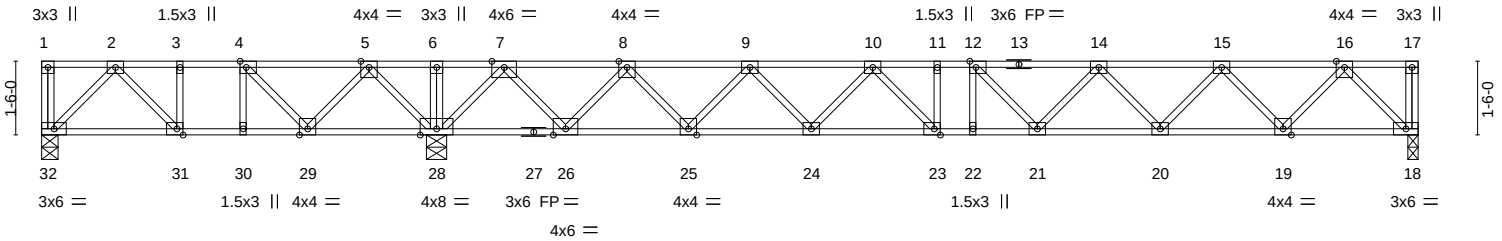

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-0-7 28-0-2
8-0-7 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.21	22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.33	21-22	>725	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 18=0-2-8, 28=0-4-15
Max Uplift 32=-201(LC 4)
Max Grav 32=311(LC 3), 18=1132(LC 7), 28=2413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-233/683, 3-4=-233/683, 4-5=0/1276, 5-6=0/2515, 6-7=0/2515, 7-8=-132/295, 8-9=-1857/0, 9-10=-2966/0, 10-11=-3573/0, 11-12=-3573/0, 12-14=-3495/0, 14-15=-2954/0, 15-16=-1808/0
BOT CHORD 30-31=-683/233, 29-30=-683/233, 28-29=-1749/0, 26-28=-1137/0, 25-26=0/1135, 24-25=0/2551, 23-24=0/3370, 22-23=0/3573, 21-22=0/3573, 20-21=0/3371, 19-20=0/2518, 18-19=0/1072
WEBS 2-32=-331/337, 2-31=-643/0, 5-28=-1182/0, 5-29=0/885, 4-29=-1028/0, 4-30=0/296, 3-31=-18/303, 7-28=-1948/0, 7-26=0/1538, 8-26=-1515/0, 8-25=0/1099, 9-25=-1058/0, 9-24=0/640, 10-24=-628/0, 16-18=-1516/0, 16-19=0/1094, 15-19=-1055/0, 15-20=0/647, 14-20=-620/0, 14-21=-54/306, 12-21=-305/181, 10-23=-28/549

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F17	Floor	3	1	I49385543
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:18 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0B?vXSbIkb5mmp5HWOrTDlQei9?nZfuw9XgOgCy6ixJ

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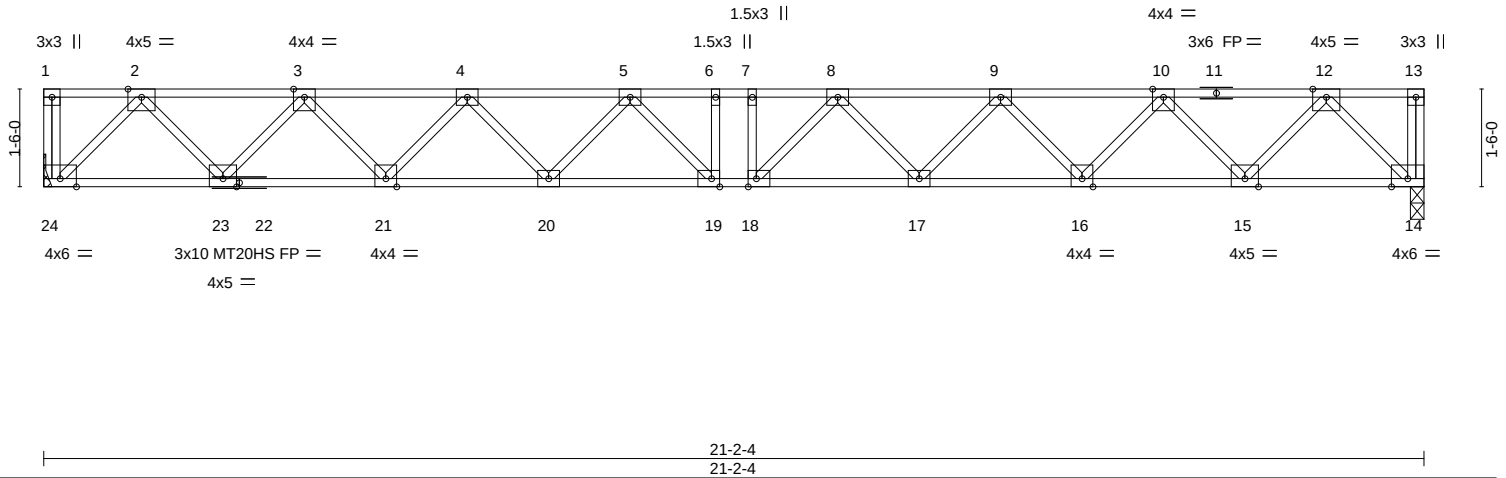

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	19	>725	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.56	19	>446	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 24=Mechanical, 14=0-2-8
Max Grav 24=1361(LC 1), 14=1361(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2244/0, 3-4=-3802/0, 4-5=-4762/0, 5-6=-5166/0, 6-7=-5166/0, 7-8=-5166/0, 8-9=-4762/0, 9-10=-3802/0, 10-12=-2244/0
BOT CHORD 23-24=0/1299, 21-23=0/3162, 20-21=0/4421, 19-20=0/5079, 18-19=0/5166, 17-18=0/5079, 16-17=0/4421, 15-16=0/3162, 14-15=0/1300
WEBS 2-24=-1838/0, 2-23=0/1404, 3-23=-1365/0, 3-21=0/951, 4-21=-921/0, 4-20=0/507, 5-20=-480/0, 12-14=-1838/0, 12-15=0/1403, 10-15=-1365/0, 10-16=0/952, 9-16=-920/0, 9-17=0/507, 8-17=-480/0, 8-18=-204/416, 5-19=-204/416

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F18	Floor	1	1	I49385544
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:20 2021 Page 1
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1-3-0 1-1-8 0-8-8

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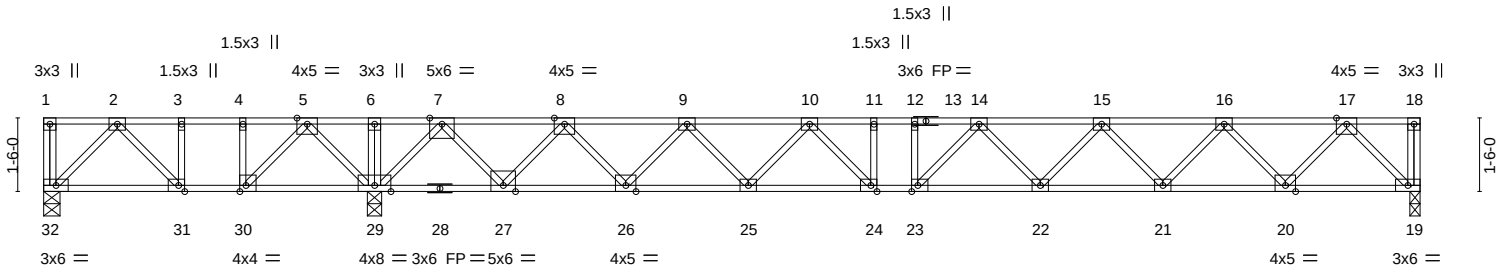

FASTEN TRUSS TO BEARING FOR
THE UPLIFT REACTION SHOWN
WHILE PERMITTING NO UPWARD
MOVEMENT OF THE BEARING.

6-9-0 28-1-0
6-9-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	22-23	>977	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.42	22-23	>603	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-4 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-363(LC 4)
Max Grav 32=213(LC 3), 19=1216(LC 7), 29=2517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=0/1070, 3-4=0/1070, 4-5=0/1070, 5-6=0/2630, 6-7=0/2630, 8-9=-1976/0, 9-10=-3254/0, 10-11=-4051/0, 11-12=-4051/0, 12-14=-4051/0, 14-15=-3969/0, 15-16=-3263/0, 16-17=-1969/0
BOT CHORD 31-32=-390/138, 30-31=-1070/0, 29-30=-1896/0, 27-29=-1170/0, 26-27=0/1174, 25-26=0/2756, 24-25=0/3740, 23-24=0/4051, 22-23=0/4147, 21-22=0/3753, 20-21=0/2755, 19-20=0/1155
WEBS 2-32=-195/552, 2-31=-984/0, 3-31=0/548, 5-29=-1208/0, 5-30=0/1356, 4-30=-764/0, 7-29=-2065/0, 7-27=0/1673, 8-27=-1624/0, 8-26=0/1206, 9-26=-1173/0, 9-25=0/753, 10-25=-737/0, 17-19=-1634/0, 17-20=0/1209, 16-20=-1169/0, 16-21=0/754, 15-21=-728/0, 15-22=0/346, 14-22=-319/0, 14-23=-402/232, 10-24=0/679, 11-24=-342/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385545
PRYOR-F2B	F19	Floor	12	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:21 2021 Page 1
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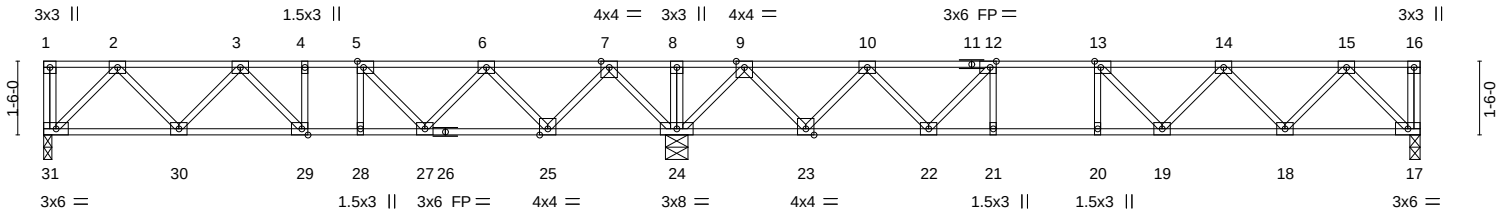

12-10-9 28-0-1
12-10-9 15-1-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.13	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.21	19-20	>876	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 24=0-5-8
Max Grav 31=716(LC 3), 17=866(LC 4), 24=2127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1014/0, 3-4=-1431/0, 4-5=-1431/0, 5-6=-1196/7, 6-7=-403/468, 7-8=0/1712, 8-9=0/1712, 9-10=-527/277, 10-12=-1581/0, 12-13=-2044/0, 13-14=-1953/0, 14-15=-1303/0
BOT CHORD 30-31=0/660, 29-30=0/1342, 28-29=0/1431, 27-28=0/1431, 25-27=-194/947, 24-25=-775/0, 23-24=-767/0, 22-23=0/1187, 21-22=0/2044, 20-21=0/2044, 19-20=0/2044, 18-19=0/1786, 17-18=0/801
WEBS 2-31=-933/0, 2-30=0/526, 3-30=-488/0, 7-24=-1326/0, 7-25=0/936, 6-25=-903/0, 6-27=0/479, 5-27=-534/0, 9-24=-1484/0, 9-23=0/1073, 10-23=-1029/0, 10-22=0/646, 12-22=-799/0, 15-17=-1132/0, 15-18=0/747, 14-18=-718/0, 13-20=-250/0, 12-21=0/283

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F20	Floor	4	1	I49385546
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:24 2021 Page 1
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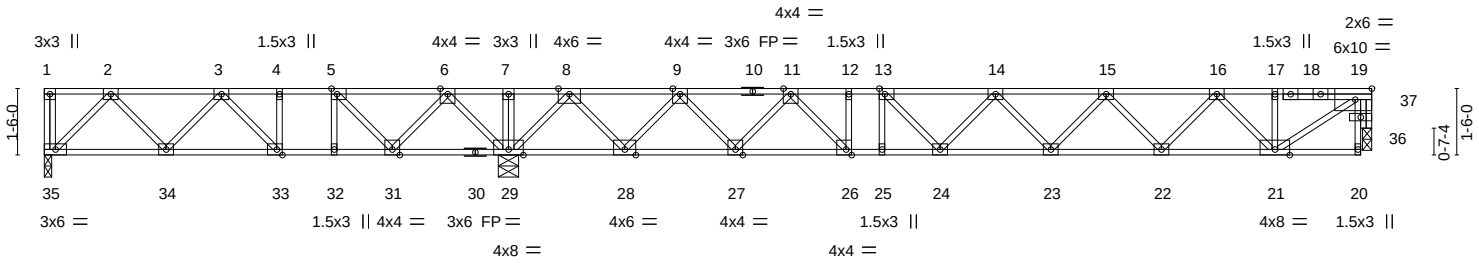

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge], [19:0-4-8,Edge], [26:0-1-8,Edge], [33:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.19	24-25	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.30	24-25	>768	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	37	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 20-30: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 19-21: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 35=0-2-0, 29=0-5-8, 37=0-2-8
Max Uplift 35=-39(LC 4)
Max Grav 35=521(LC 3), 29=2431(LC 1), 37=1077(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-654/186, 3-4=-607/777, 4-5=-607/777, 5-6=-77/1308, 6-7=0/2449, 7-8=0/2449, 8-9=-110/301, 9-11=-1749/0, 11-12=-2990/0, 12-13=-2990/0, 13-14=-3275/0, 14-15=-3261/0, 15-16=-2643/0, 16-17=-1437/0, 17-19=-1441/0
BOT CHORD	34-35=-62/466, 33-34=-377/790, 32-33=-777/607, 31-32=-777/607, 29-31=-1737/0, 28-29=-1105/0, 27-28=0/1080, 26-27=0/2438, 25-26=0/2990, 24-25=0/2990, 23-24=0/3425, 22-23=0/3087, 21-22=0/2173
WEBS	2-35=-659/88, 2-34=-183/279, 3-34=-203/284, 6-29=-1243/0, 6-31=0/953, 5-31=-1115/0, 3-33=-690/0, 4-33=0/272, 5-32=0/330, 19-21=0/1603, 16-21=-1066/0, 16-22=0/698, 15-22=-660/0, 15-23=0/260, 14-24=-358/38, 13-24=0/585, 13-25=-439/0, 8-29=-1900/0, 8-28=0/1503, 9-28=-1463/0, 9-27=0/1016, 11-27=-1048/0, 11-26=0/927, 12-26=-286/0, 19-37=-1105/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35, 37.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F21	Floor	10	1	I49385547
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:25 2021 Page 1
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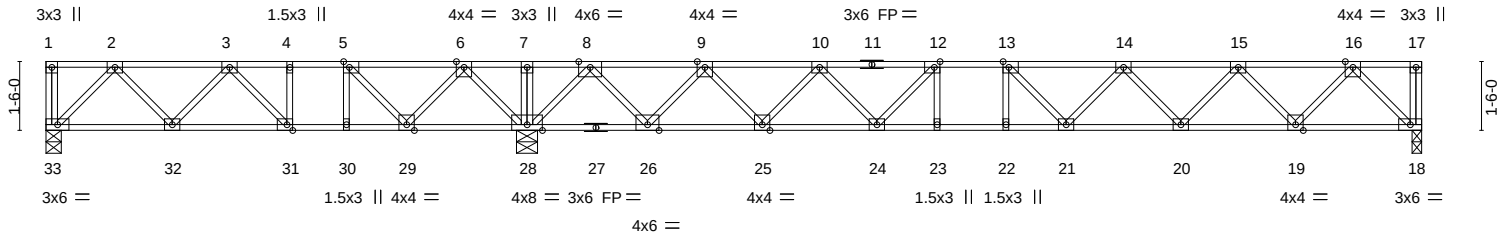

10-5-13 29-11-13
10-5-13 19-6-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.19	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.31	21-22	>749	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 163 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-27: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 33=0-4-0, 18=0-2-8, 28=0-5-8
Max Uplift 33=-26(LC 4)
Max Grav 33=528(LC 3), 18=1107(LC 4), 28=2411(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-667/162, 3-4=-637/722, 4-5=-637/722, 5-6=-118/1235, 6-7=0/2341, 7-8=0/2341, 9-10=-1850/0, 10-12=-2894/0, 12-13=-3358/0, 13-14=-3352/0, 14-15=-2858/0, 15-16=-1759/0
BOT CHORD 32-33=-49/473, 31-32=-340/810, 30-31=-722/637, 29-30=-722/637, 28-29=-1652/0, 26-28=-1002/0, 25-26=0/1163, 24-25=0/2504, 23-24=0/3358, 22-23=0/3358, 21-22=0/3358, 20-21=0/3259, 19-20=0/2444, 18-19=0/1047
WEBS 2-33=-669/70, 2-32=-167/288, 3-32=-213/265, 6-28=-1229/0, 6-29=0/934, 5-29=-1084/0, 3-31=-664/0, 4-31=0/261, 5-30=0/319, 8-28=-1894/0, 8-26=0/1487, 9-26=-1465/0, 9-25=0/1043, 10-25=-992/0, 10-24=0/632, 12-24=-826/0, 16-18=-1481/0, 16-19=0/1058, 15-19=-1018/0, 15-20=0/616, 14-20=-595/0, 14-21=-37/264, 13-21=-272/272, 13-22=-326/61, 12-23=-37/350

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F22	Floor	3	1	I49385548
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:26 2021 Page 1
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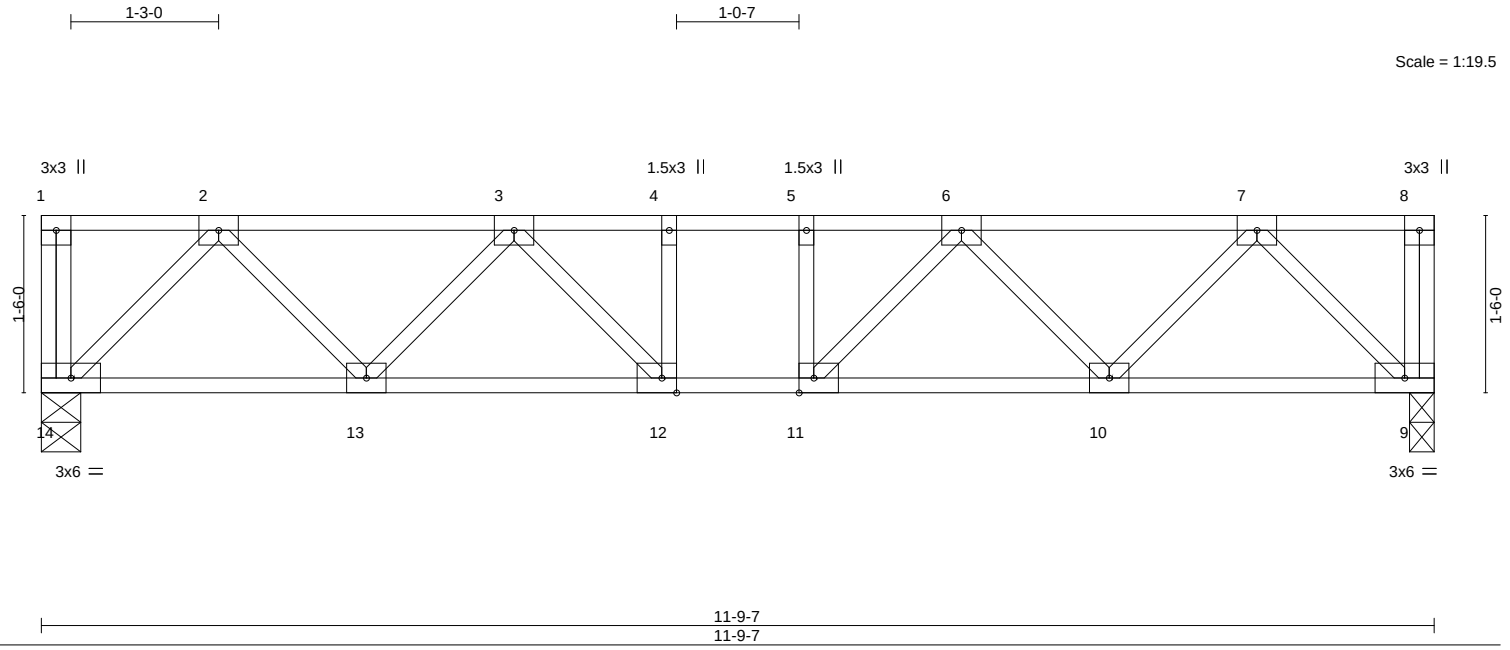

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=750(LC 1), 9=750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1077/0, 3-4=-1560/0, 4-5=-1560/0, 5-6=-1560/0, 6-7=-1077/0
BOT CHORD 13-14=0/694, 12-13=0/1434, 11-12=0/1560, 10-11=0/1434, 9-10=0/694
WEBS 2-14=-981/0, 2-13=0/571, 3-13=-530/0, 3-12=-2/330, 7-9=-981/0, 7-10=0/571, 6-10=-530/0, 6-11=-2/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F23	Floor	3	1	I49385549
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:27 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Fw1IQXiycMEVLBH0XnVa5eIJSnCGApRFDRMMUAy6ixA

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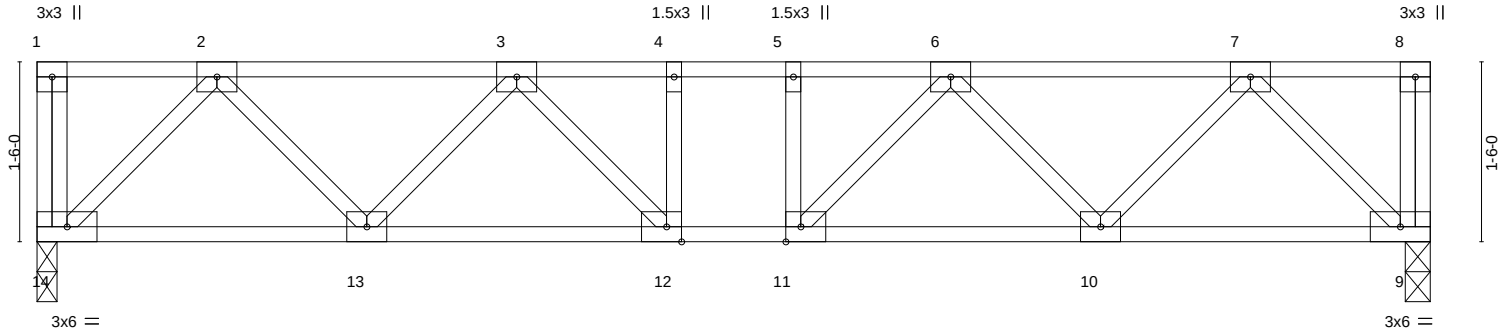

11-7-7
11-7-7

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=739(LC 1), 9=739(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1057/0, 3-4=-1517/0, 4-5=-1517/0, 5-6=-1517/0, 6-7=-1057/0
BOT CHORD 13-14=0/683, 12-13=0/1404, 11-12=0/1517, 10-11=0/1404, 9-10=0/683
WEBS 2-14=-966/0, 2-13=0/556, 3-13=-516/0, 3-12=-15/306, 7-9=-966/0, 7-10=0/556, 6-10=-516/0, 6-11=-15/306

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F24	Floor	2	1	I49385550
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:27 2021 Page 1
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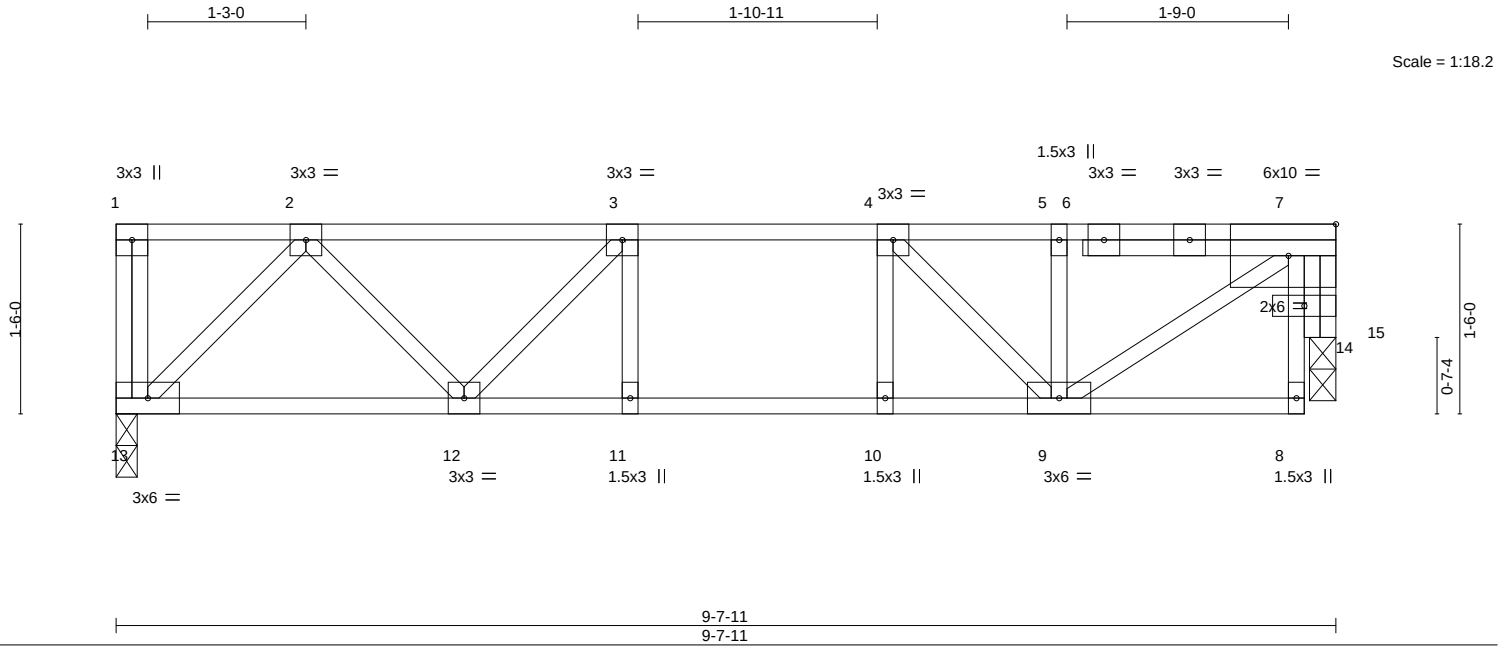

Plate Offsets (X,Y)-- [7:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.05	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 7-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 15=0-2-8
Max Grav 13=609(LC 1), 15=588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-806/0, 3-4=-1017/0, 4-5=-709/0, 5-7=-713/0
BOT CHORD	12-13=0/559, 11-12=0/1017, 10-11=0/1017, 9-10=0/1017
WEBS	2-13=-791/0, 2-12=0/367, 3-12=-342/0, 7-9=0/774, 4-9=-510/0, 7-15=-606/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13, 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385551
PRYOR-F2B	F25	Floor	5	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:28 2021 Page 1
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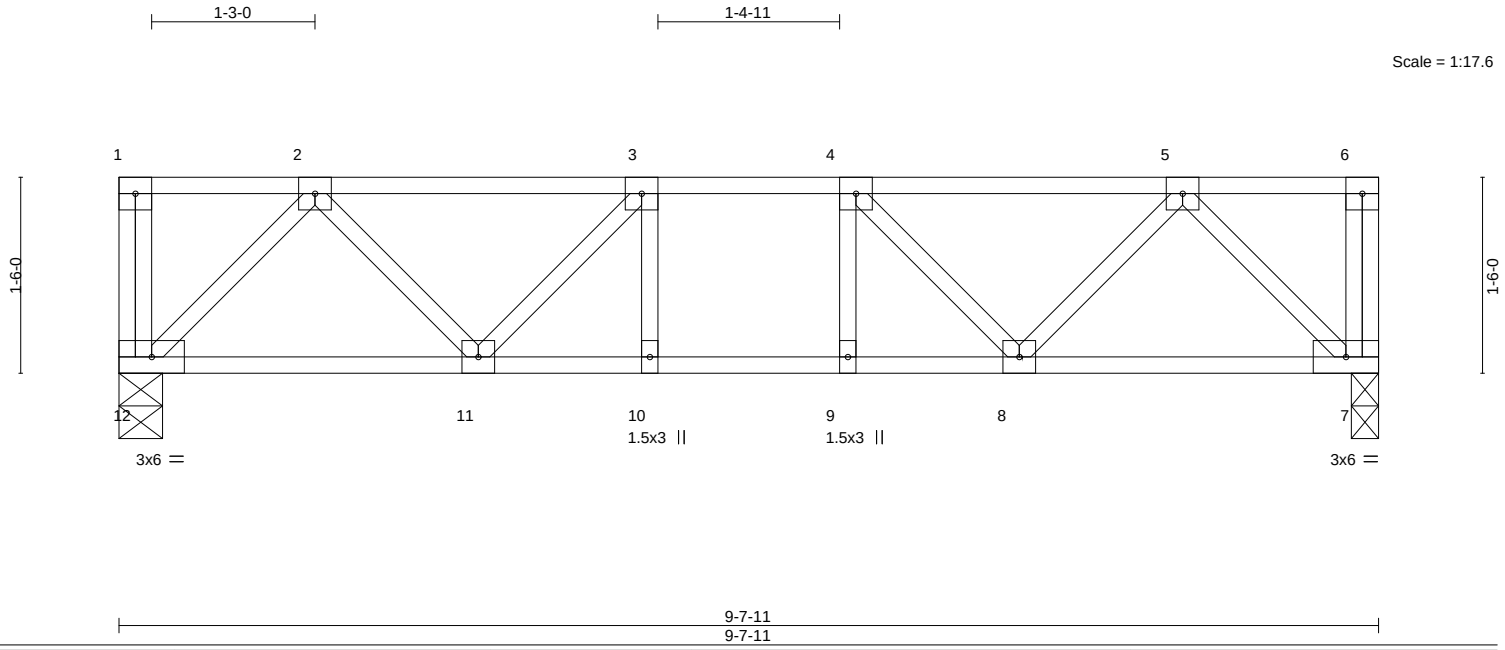

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-2-8
Max Grav 12=610(LC 1), 7=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/0, 3-4=-1046/0, 4-5=-808/0
BOT CHORD 11-12=0/558, 10-11=0/1046, 9-10=0/1046, 8-9=0/1046, 7-8=0/558
WEBS 2-12=-789/0, 2-11=0/372, 3-11=-368/0, 5-7=-789/0, 5-8=0/372, 4-8=-368/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385552
PRYOR-F2B	F26	Floor	3	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:28 2021 Page 1
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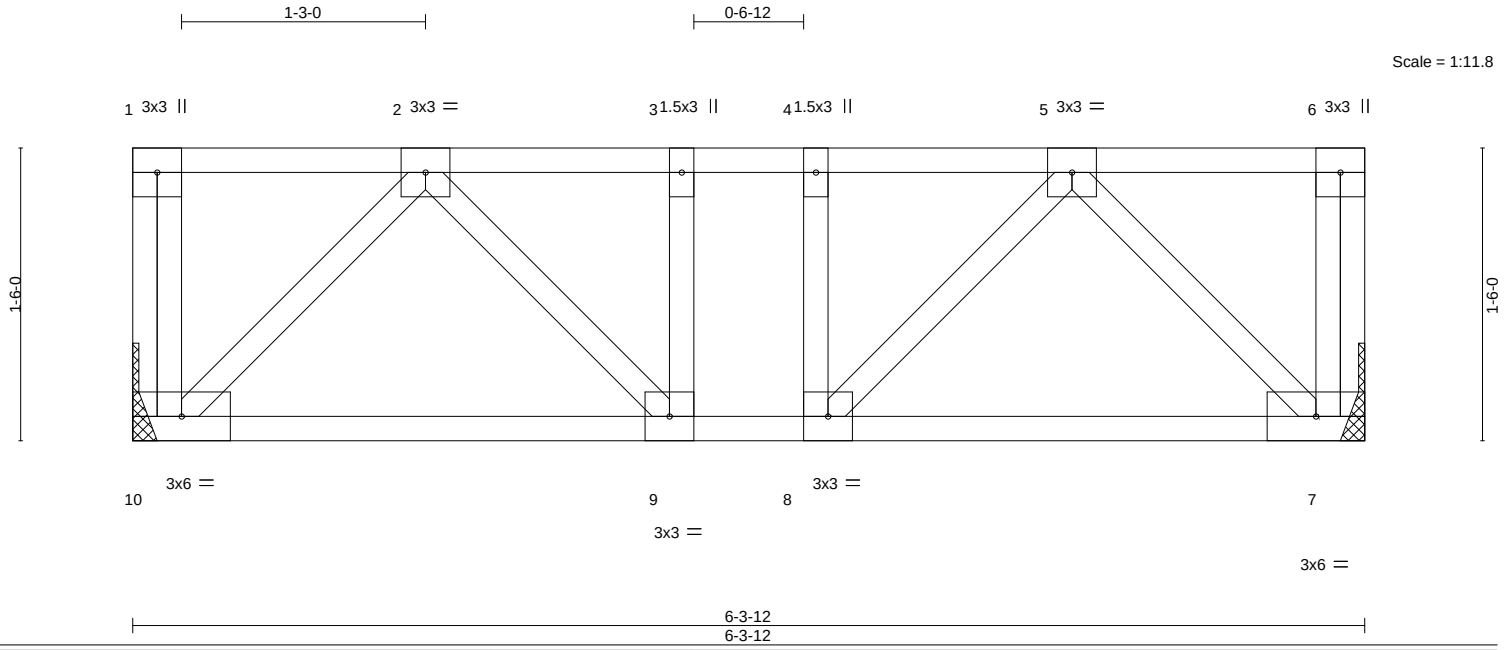

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.01	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=394(LC 1), 7=394(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-438/0, 3-4=-438/0, 4-5=-438/0
BOT CHORD 9-10=0/317, 8-9=0/438, 7-8=0/317
WEBS 2-10=-449/0, 5-7=-449/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F27	Floor	3	1	I49385553
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:29 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CJ93rDkC8_UCbVRPfCX2A3NfybtYejuYglrTZ3y6ix8

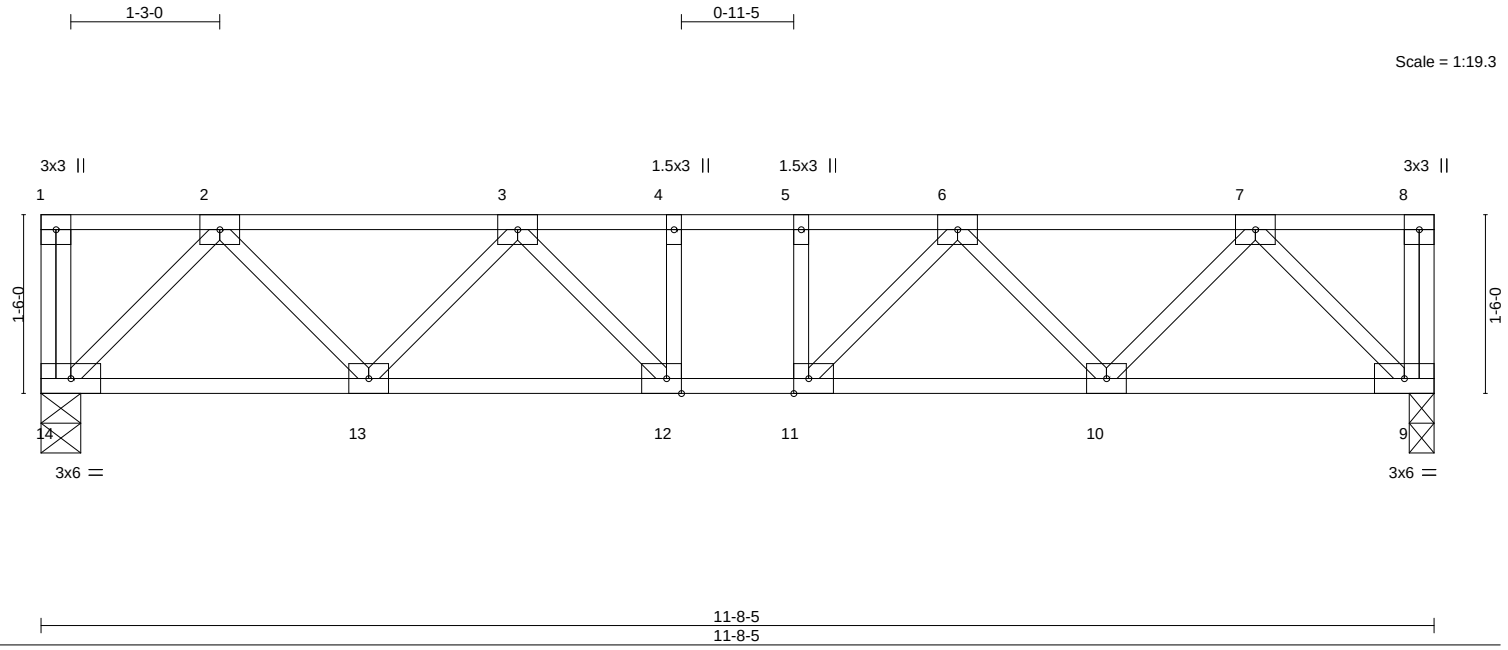

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=744(LC 1), 9=744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1066/0, 3-4=-1536/0, 4-5=-1536/0, 5-6=-1536/0, 6-7=-1066/0
BOT CHORD 13-14=0/688, 12-13=0/1417, 11-12=0/1536, 10-11=0/1417, 9-10=0/688
WEBS 2-14=-972/0, 2-13=0/563, 3-13=-522/0, 3-12=-9/317, 7-9=-972/0, 7-10=0/563, 6-10=-522/0, 6-11=-9/317

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F28	Floor	3	1	I49385554
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gVjR3ZkqvHc3Cf0bDw2HiHwqj_DCNADhvPa05Vy6ix7

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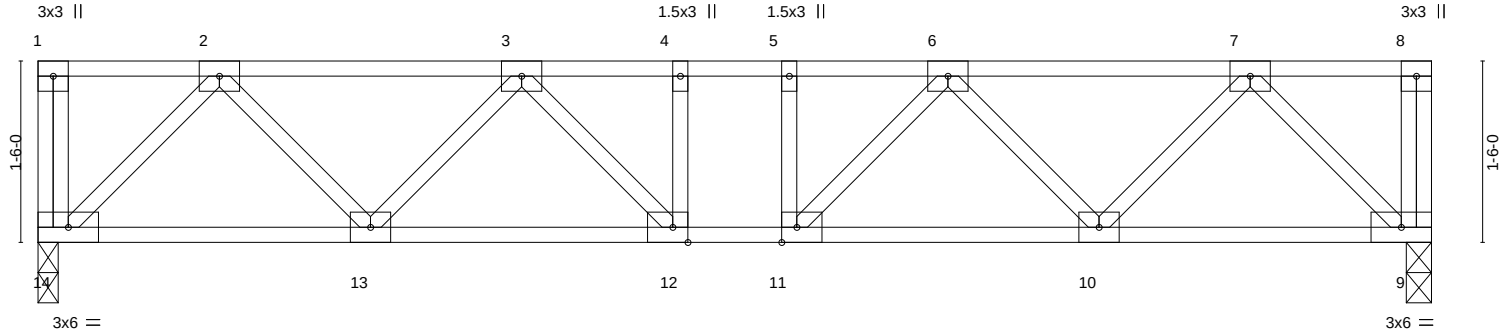

11-6-5
11-6-5

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 66 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=733(LC 1), 9=733(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1045/0, 3-4=-1493/0, 4-5=-1493/0, 5-6=-1493/0, 6-7=-1045/0
BOT CHORD 13-14=0/677, 12-13=0/1387, 11-12=0/1493, 10-11=0/1387, 9-10=0/677
WEBS 2-14=-957/0, 2-13=0/548, 3-13=-508/0, 3-12=-22/294, 7-9=-957/0, 7-10=0/548, 6-10=-508/0, 6-11=-22/294

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F29	Floor	2	1	I49385555
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gVjR3ZkqvHc3Cf0bDw2HiHwo__EmNBthvPa05Vy6ix7

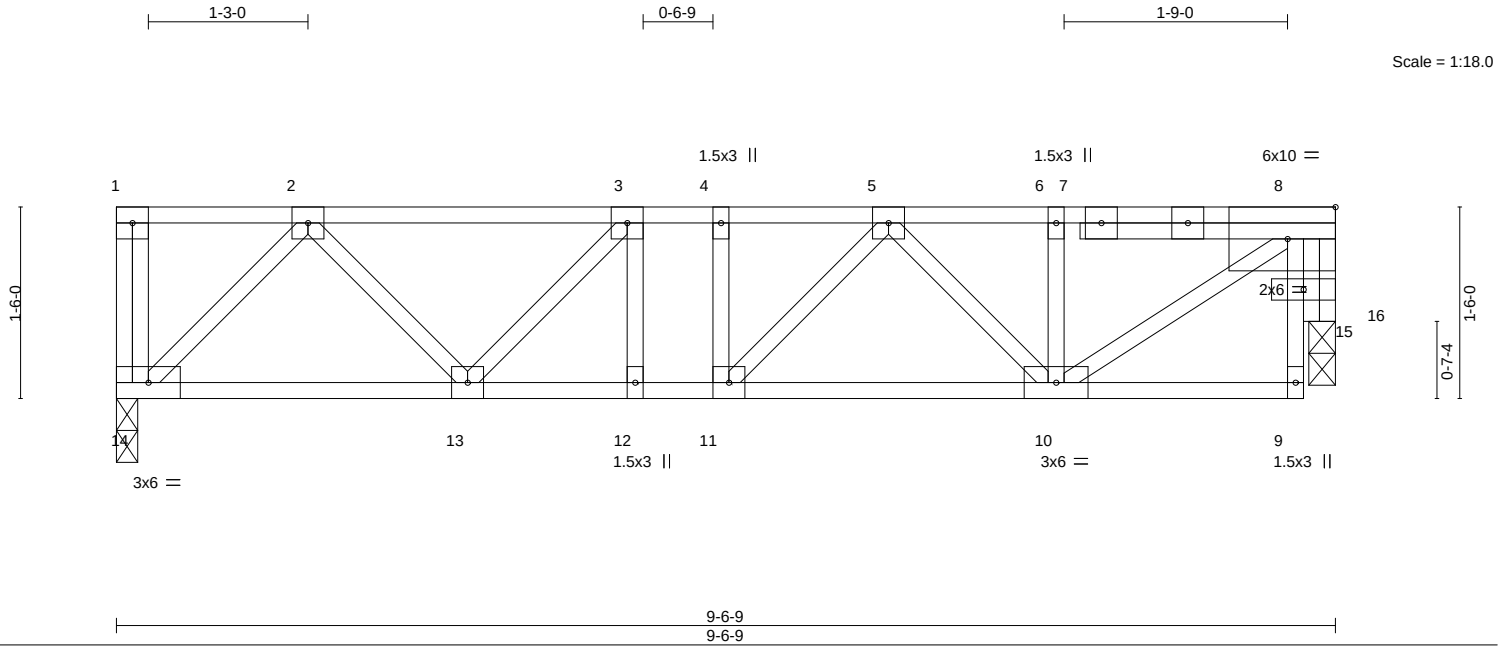

Plate Offsets (X,Y)-- [8:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.02	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.03	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 16=0-2-8
Max Grav 14=603(LC 1), 16=581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-796/0, 3-4=-1024/0, 4-5=-1024/0, 5-6=-711/0, 6-8=-715/0
BOT CHORD	13-14=0/549, 12-13=0/1024, 11-12=0/1024, 10-11=0/947
WEBS	2-14=-776/0, 2-13=0/367, 3-13=-330/0, 8-10=0/779, 5-10=-342/0, 8-16=-599/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
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Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385556
PRYOR-F2B	F30	Floor	5	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:33 2021 Page 1
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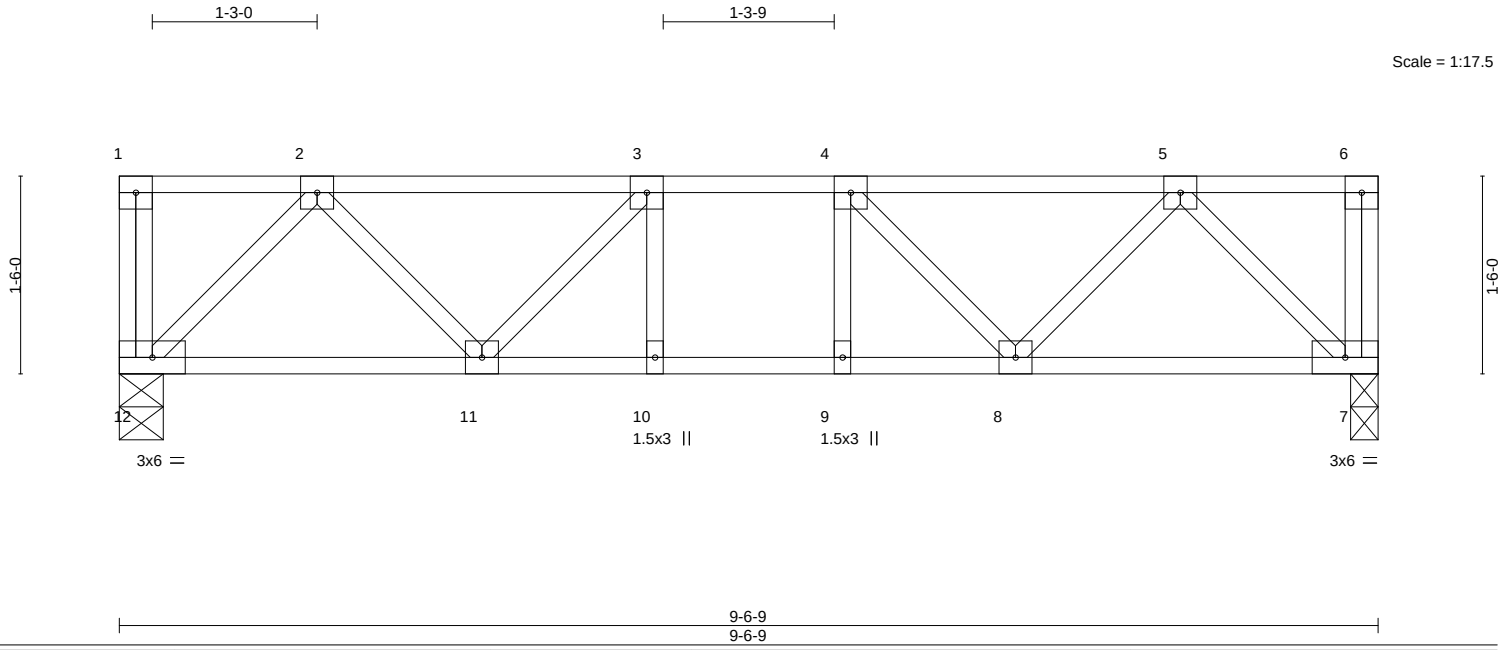

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-2-8
Max Grav 12=604(LC 1), 7=604(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/0, 3-4=-1028/0, 4-5=-796/0
BOT CHORD 11-12=0/552, 10-11=0/1028, 9-10=0/1028, 8-9=0/1028, 7-8=0/552
WEBS 2-12=-780/0, 2-11=0/364, 3-11=-357/0, 5-7=-780/0, 5-8=0/364, 4-8=-357/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F31	Floor	1	1	I49385557
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:33 2021 Page 1
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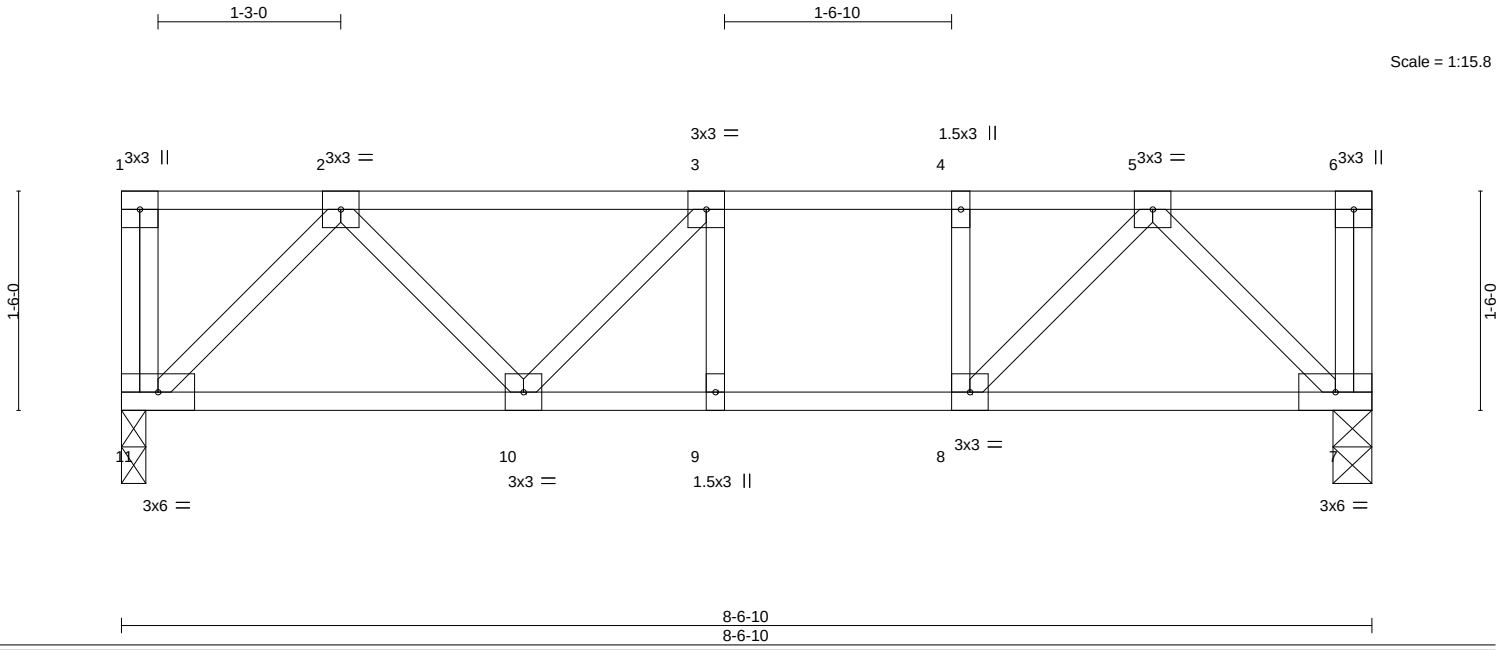

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-3-3
Max Grav 11=540(LC 1), 7=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-672/0, 3-4=-787/0, 4-5=-787/0
BOT CHORD 10-11=0/497, 9-10=0/787, 8-9=0/787, 7-8=0/466
WEBS 2-11=-703/0, 2-10=0/260, 5-7=-659/0, 5-8=0/484

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F32	Floor	1	1	I49385558
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:34 2021 Page 1
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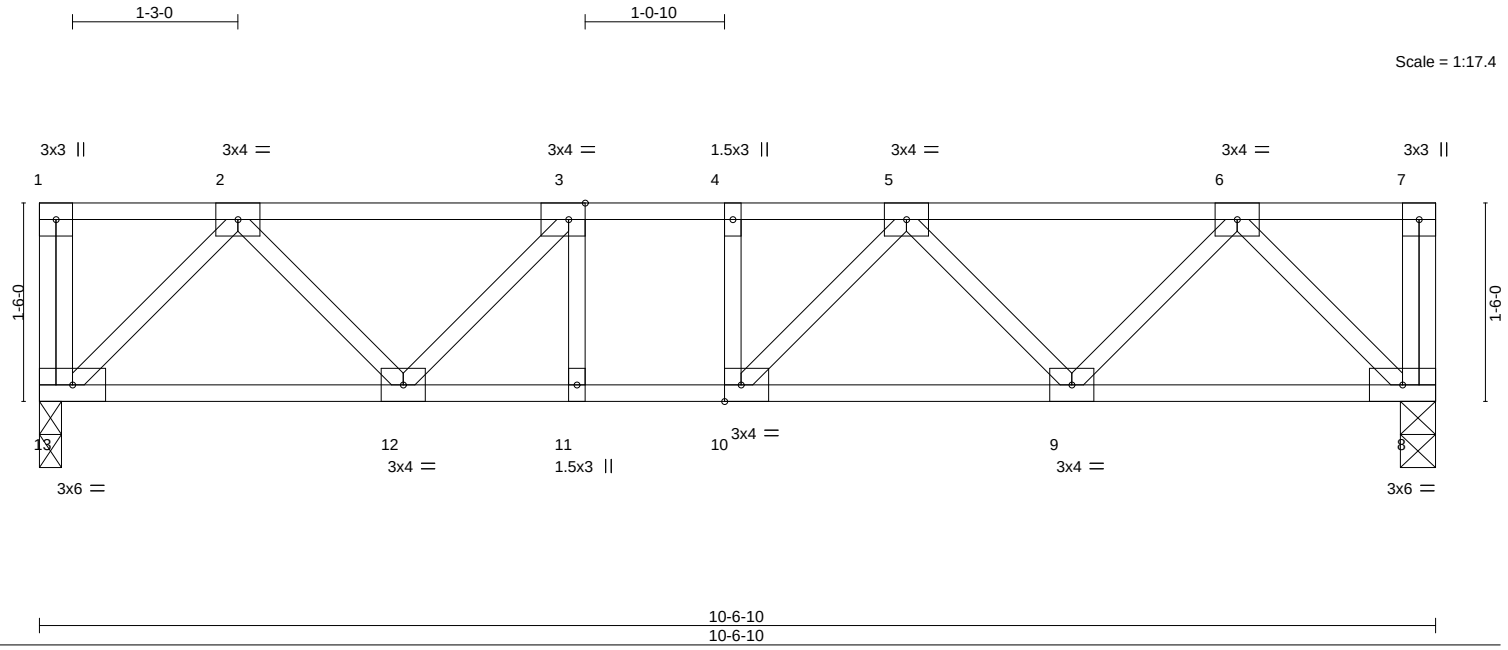

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=0-3-3
Max Grav 13=670(LC 1), 8=670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-924/0, 3-4=-1235/0, 4-5=-1235/0, 5-6=-927/0
BOT CHORD 12-13=0/612, 11-12=0/1235, 10-11=0/1235, 9-10=0/1210, 8-9=0/614
WEBS 2-13=-866/0, 2-12=0/463, 3-12=-451/0, 6-8=-868/0, 6-9=0/467, 5-9=-420/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

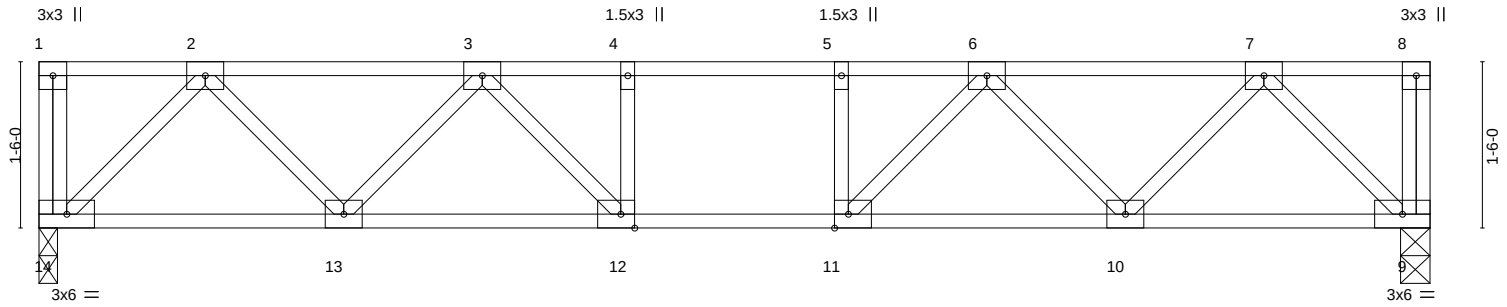
Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F33	Floor	1	1	I49385559
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-YGyyuxnLzW6VhGJMSl7Et74SMcYMJ_aHq1YEEGy6ix3

1-3-0 1-9-10

Scale = 1:20.8



12-6-10
12-6-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-3-3
Max Grav 14=800(LC 1), 9=800(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1172/0, 3-4=-1761/0, 4-5=-1761/0, 5-6=-1761/0, 6-7=-1172/0
BOT CHORD 13-14=0/744, 12-13=0/1572, 11-12=0/1761, 10-11=0/1572, 9-10=0/744
WEBS 2-14=-1052/0, 2-13=0/635, 3-13=-595/0, 3-12=0/444, 7-9=-1052/0, 7-10=0/635, 6-10=-595/0, 6-11=0/444

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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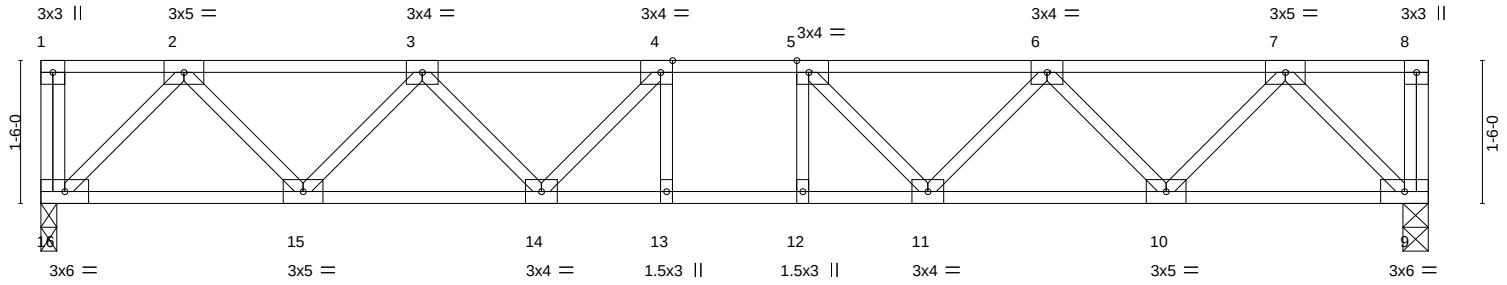
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F34	Floor	1	1	I49385560
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:35 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0SWK6GozkqEMJQuZ?TeTPKddx?pK2POQ3hInmjy6ix2

1-3-0 1-3-10

Scale: 1/2"=1'



14-6-10
14-6-10

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-3
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1425/0, 3-4=-2191/0, 4-5=-2418/0, 5-6=-2191/0, 6-7=-1425/0
BOT CHORD 15-16=0/868, 14-15=0/1956, 13-14=0/2418, 12-13=0/2418, 11-12=0/2418, 10-11=0/1956, 9-10=0/868
WEBS 2-16=-1227/0, 2-15=0/829, 3-15=-789/0, 3-14=0/397, 4-14=-461/0, 7-9=-1227/0, 7-10=0/829, 6-10=-789/0, 6-11=0/397, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F35	Floor	1	1	I49385561
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:35 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0SWK6GozkqEMJQuZ?TeTPKdeQ?pU2O6Q3hInmjy6ix2

1-3-0 0-9-10

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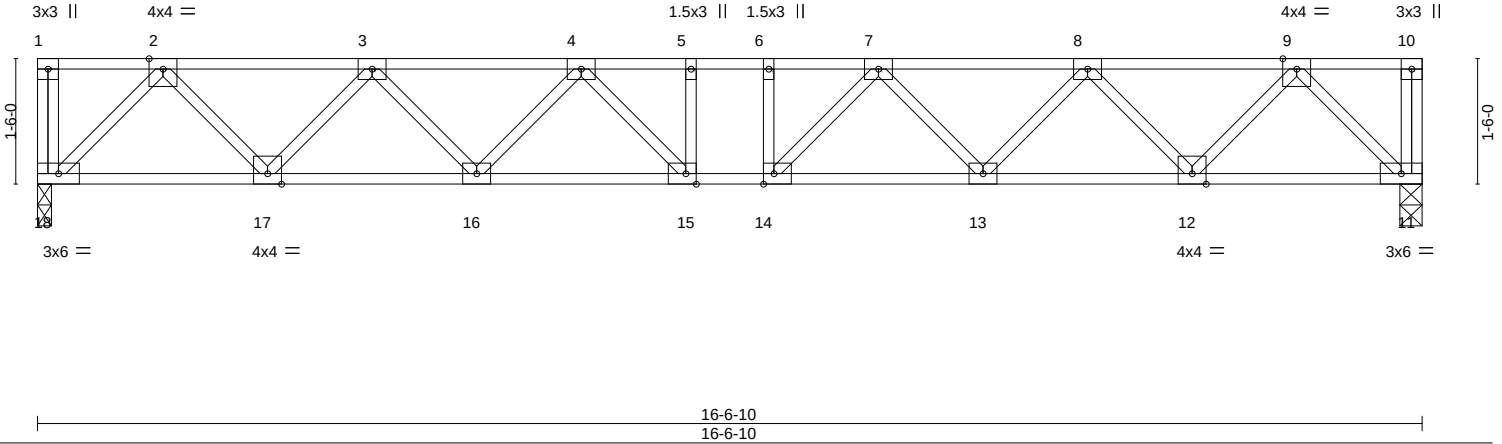

16-6-10
16-6-10

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.14	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	15	>856	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 92 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 11=0-3-3
Max Grav 18=1060(LC 1), 11=1060(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1671/0, 3-4=-2678/0, 4-5=-3129/0, 5-6=-3129/0, 6-7=-3129/0, 7-8=-2678/0, 8-9=-1671/0
BOT CHORD 17-18=0/998, 16-17=0/2319, 15-16=0/3014, 14-15=0/3129, 13-14=0/3014, 12-13=0/2319, 11-12=0/998
WEBS 2-18=-1411/0, 2-17=0/1001, 3-17=-963/0, 3-16=0/533, 4-16=-500/0, 4-15=-103/394, 9-11=-1411/0, 9-12=0/1001, 8-12=-963/0, 8-13=0/533, 7-13=-500/0, 7-14=-103/394

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F36	Floor	1	1	I49385562
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:36 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Uf4iJcpbV7MDxaTlZA9iyY9mVPBNnq3aHL1LJ9y6ix1

1-3-0 0-3-10

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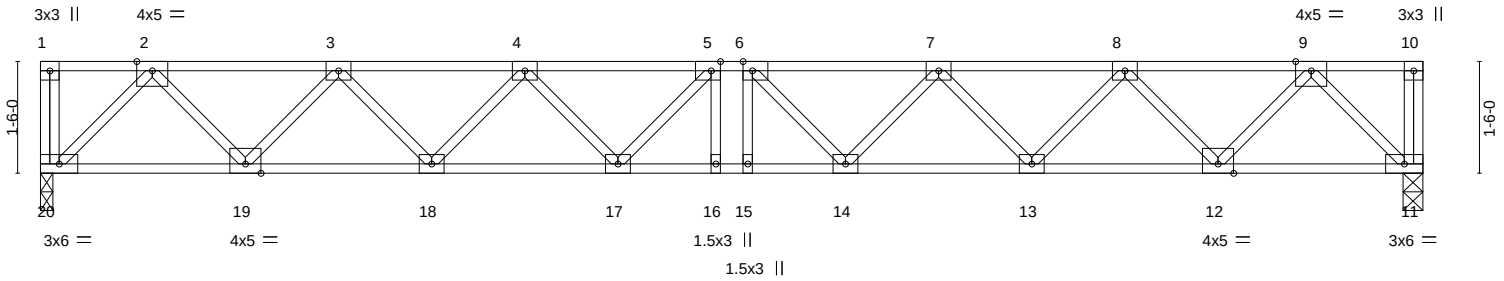

18-6-10
18-6-10

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.21	16	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.34	16	>655	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 103 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 11=0-3-3
Max Grav 20=1190(LC 1), 11=1190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1918/0, 3-4=-3166/0, 4-5=-3813/0, 5-6=-3984/0, 6-7=-3813/0, 7-8=-3166/0, 8-9=-1918/0
BOT CHORD 19-20=0/1129, 18-19=0/2681, 17-18=0/3630, 16-17=0/3984, 15-16=0/3984, 14-15=0/3984, 13-14=0/3630, 12-13=0/2681, 11-12=0/1129
WEBS 2-20=-1597/0, 2-19=0/1172, 3-19=-1134/0, 3-18=0/722, 4-18=-690/0, 4-17=0/381, 5-17=-409/51, 9-11=-1597/0, 9-12=0/1172, 8-12=-1134/0, 8-13=0/722, 7-13=-690/0, 7-14=0/381, 6-14=-409/51

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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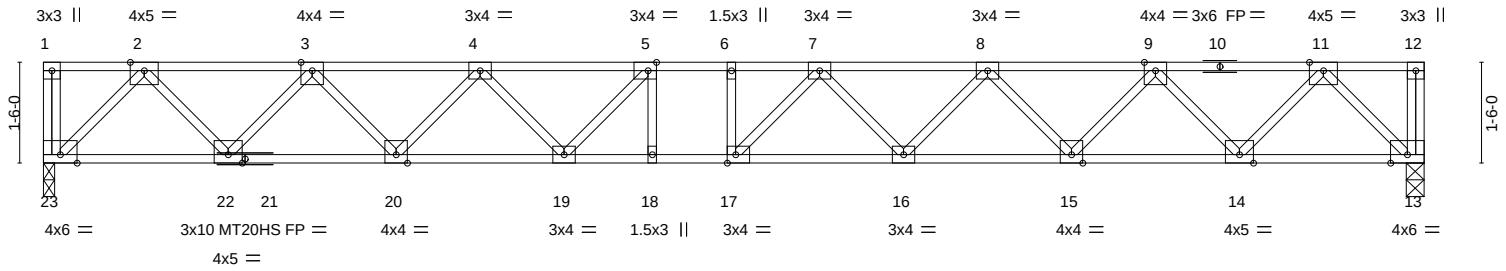
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F37	Floor	1	1	I49385563
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-zre4XyqDGRU4Yj2x7ugxVlivnpTjWF?jW?nurby6ix0

1-3-0 1-0-10

Scale = 1:34.3



20-6-10
20-6-10

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.31	17	>783	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.51	16-17	>479	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 23=0-2-0, 13=0-3-3
Max Grav 23=1320(LC 1), 13=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2165/0, 3-4=-3650/0, 4-5=-4532/0, 5-6=-4842/0, 6-7=-4842/0, 7-8=-4537/0, 8-9=-3648/0, 9-11=-2165/0
BOT CHORD 22-23=0/1258, 20-22=0/3047, 19-20=0/4229, 18-19=0/4842, 17-18=0/4842, 16-17=0/4814, 15-16=0/4231, 14-15=0/3046, 13-14=0/1259
WEBS 2-23=-1780/0, 2-22=0/1348, 3-22=-1310/0, 3-20=0/896, 4-20=-862/0, 4-19=0/553, 5-19=-648/0, 11-13=-1780/0, 11-14=0/1348, 9-14=-1309/0, 9-15=0/895, 8-15=-866/0, 8-16=0/455, 7-16=-445/0, 7-17=-275/402

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385564
PRYOR-F2B	F38	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:37 2021 Page 1
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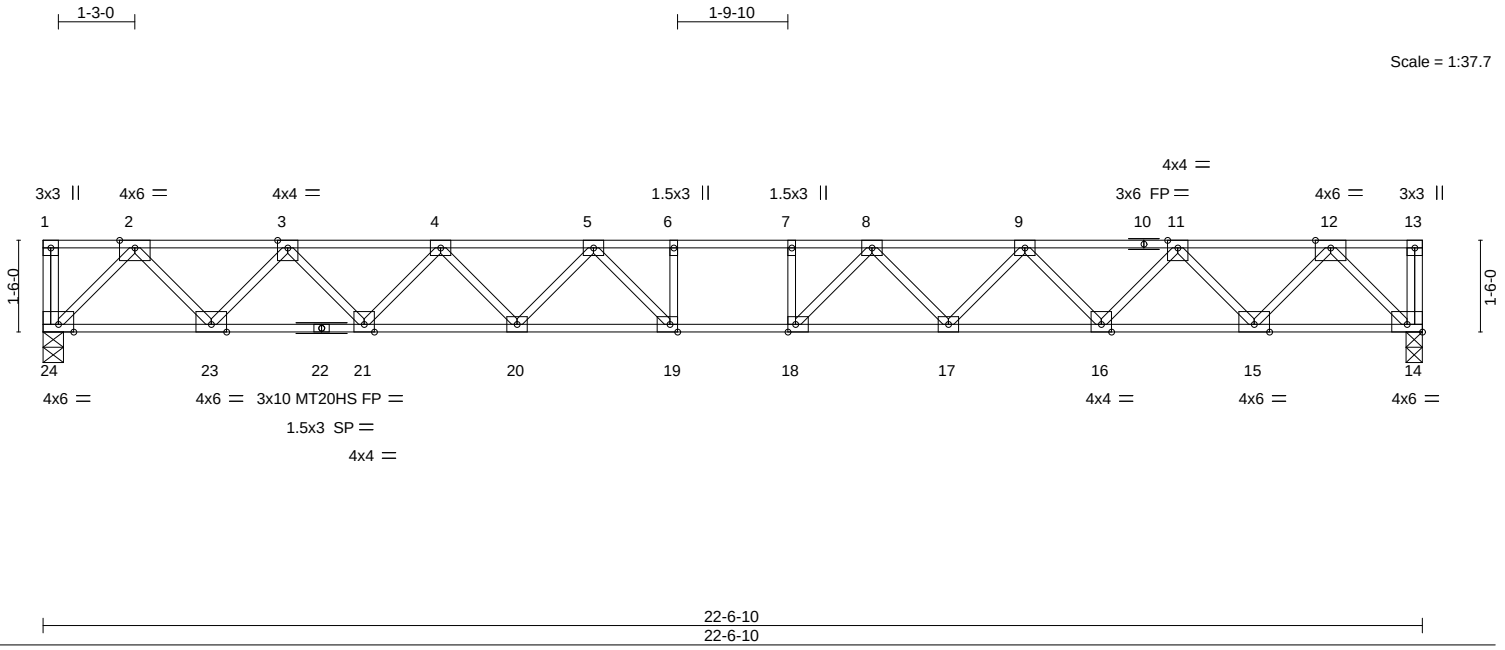

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.38	18-19	>704	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-4-0, 14=0-3-3
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2413/0, 3-4=-4132/0, 4-5=-5252/0, 5-6=-5839/0, 6-7=-5839/0, 7-8=-5839/0, 8-9=-5252/0, 9-11=-4132/0, 11-12=-2412/0
BOT CHORD 23-24=0/1388, 21-23=0/3411, 20-21=0/4833, 19-20=0/5648, 18-19=0/5839, 17-18=0/5648, 16-17=0/4832, 15-16=0/3410, 14-15=0/1388
WEBS 2-24=-1963/0, 2-23=0/1523, 3-23=-1484/0, 3-21=0/1072, 4-21=-1042/0, 4-20=0/623, 5-20=-612/0, 5-19=-155/672, 12-14=-1963/0, 12-15=0/1522, 11-15=-1484/0, 11-16=0/1073, 9-16=-1041/0, 9-17=0/624, 8-17=-612/0, 8-18=-155/672, 7-18=-338/6, 6-19=-338/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F39	Floor	2	1	I49385565
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:38 2021 Page 1
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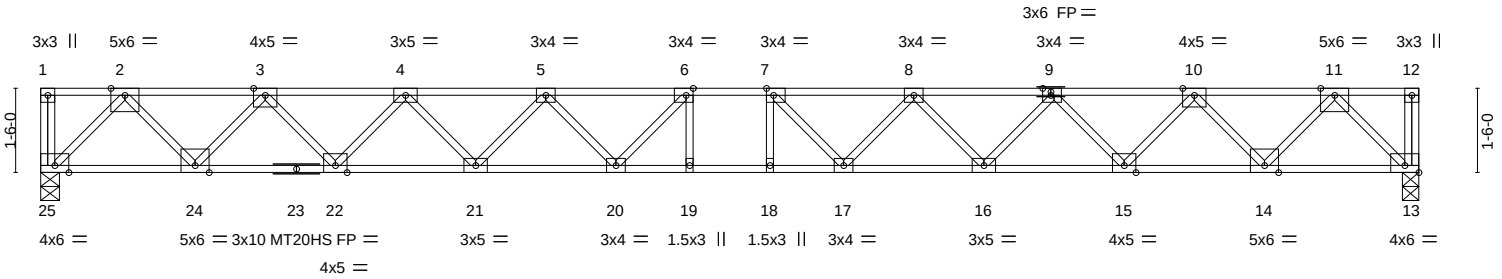

24-6-11
24-6-11

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-12,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.48	18-19	>609	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.78	18-19	>374	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-4-0, 13=0-3-8
Max Grav 25=1580(LC 1), 13=1580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2661/0, 3-4=-4614/0, 4-5=-5979/0, 5-6=-6741/0, 6-7=-6970/0, 7-8=-6741/0, 8-9=-5979/0, 9-10=-4613/0, 10-11=-2661/0
BOT CHORD 24-25=0/1517, 22-24=0/3778, 21-22=0/5430, 20-21=0/6504, 19-20=0/6970, 18-19=0/6970, 17-18=0/6970, 16-17=0/6504, 15-16=0/5430, 14-15=0/3778, 13-14=0/1518
WEBS 2-25=-2146/0, 2-24=0/1700, 3-24=-1661/0, 3-22=0/1243, 4-22=-1212/0, 4-21=0/816, 5-21=-782/0, 5-20=0/547, 11-13=-2146/0, 11-14=0/1700, 10-14=-1661/0, 10-15=0/1242, 9-15=-1213/0, 9-16=0/817, 8-16=-781/0, 8-17=0/547, 7-17=-670/134, 6-20=-670/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F40	Floor	1	1	I49385566
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:41 2021 Page 1
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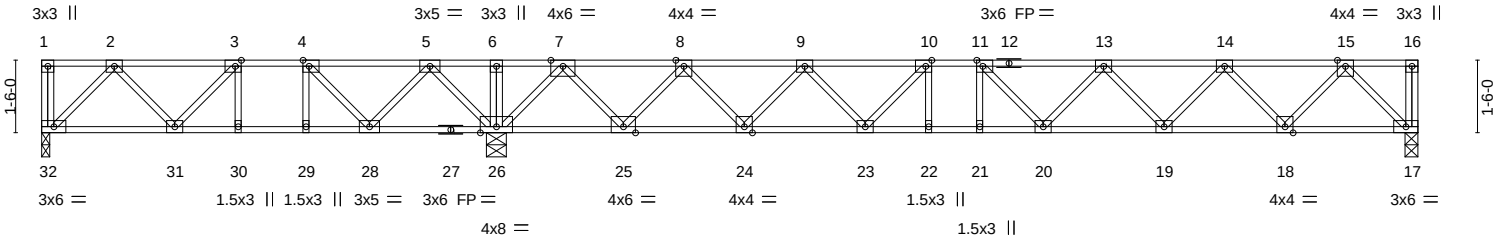

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-13 28-5-8
9-4-13 19-0-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.29	20-21	>772	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-2-0, 17=0-3-3, 26=0-4-15
Max Uplift 32=-68(LC 4)
Max Grav 32=457(LC 3), 17=1089(LC 7), 26=2312(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/268, 3-4=-536/614, 4-5=-92/1133, 5-6=0/2240, 6-7=0/2240, 7-8=-318/93, 8-9=-1903/0, 9-10=-2877/0, 10-11=-3272/0, 11-13=-3253/0, 13-14=-2793/0, 14-15=-1726/0
BOT CHORD 31-32=-63/419, 30-31=-614/536, 29-30=-614/536, 28-29=-614/536, 26-28=-1536/0, 25-26=-933/0, 24-25=0/1252, 23-24=0/2525, 22-23=0/3272, 21-22=0/3272, 20-21=0/3272, 19-20=0/3174, 18-19=0/2395, 17-18=0/1029
WEBS 2-32=-592/89, 2-31=-305/140, 3-31=-32/501, 3-30=-338/0, 5-26=-1147/0, 5-28=0/842, 4-28=-1011/0, 4-29=0/361, 7-26=-1848/0, 7-25=0/1442, 8-25=-1421/0, 8-24=0/999, 9-24=-954/0, 9-23=0/591, 10-23=-713/0, 10-22=-57/290, 15-17=-1456/0, 15-18=0/1035, 14-18=-995/0, 14-19=0/592, 13-19=-566/0, 13-20=-76/250, 11-20=-258/245, 11-21=-273/74

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F41	Floor	1	1	I49385567
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:42 2021 Page 1
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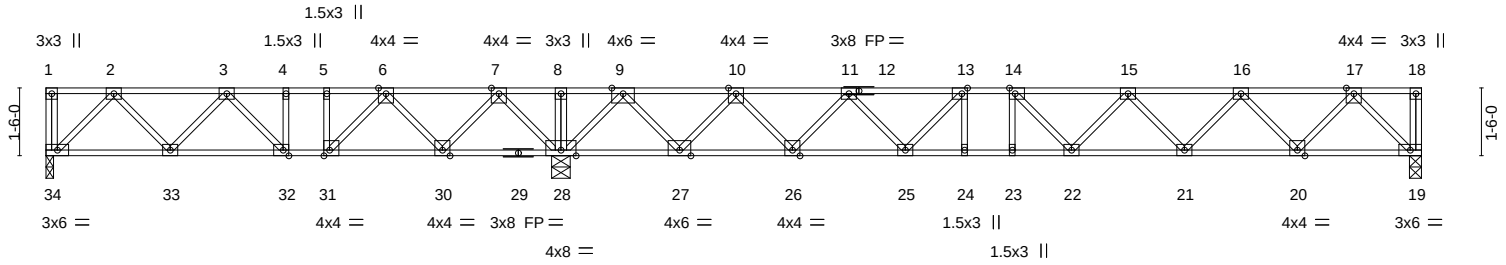

11-4-13 30-5-8
11-4-13 19-0-11

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.29	22-23	>794	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 34=0-2-0, 19=0-3-3, 28=0-4-15
Max Uplift 34=-12(LC 4)
Max Grav 34=568(LC 3), 19=1055(LC 4), 28=2492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-739/139, 3-4=-820/625, 4-5=-820/625, 5-6=-820/625, 6-7=-2/1453, 7-8=0/2685, 8-9=0/2685, 9-10=0/472, 10-11=-1567/0, 11-13=-2602/0, 13-14=-3040/0, 14-15=-3067/0, 15-16=-2668/0, 16-17=-1662/0
BOT CHORD 33-34=-35/513, 32-33=-298/923, 31-32=-625/820, 30-31=-1044/504, 28-30=-1852/0, 27-28=-1340/0, 26-27=0/886, 25-26=0/2218, 24-25=0/3040, 23-24=0/3040, 22-23=0/3040, 21-22=0/3021, 20-21=0/2300, 19-20=0/996
WEBS 2-34=-726/50, 2-33=-155/336, 3-33=-273/235, 3-32=-582/0, 7-28=-1392/0, 7-30=0/966, 6-30=-986/0, 6-31=0/857, 5-31=-412/0, 17-19=-1409/0, 17-20=0/990, 16-20=-949/0, 16-21=0/547, 15-21=-524/0, 14-22=-191/310, 9-28=-1901/0, 9-27=0/1485, 10-27=-1464/0, 10-26=0/1043, 11-26=-996/0, 11-25=0/633, 13-25=-776/0, 13-24=-27/330, 14-23=-312/45

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385568
PRYOR-F2B	F42	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:44 2021 Page 1
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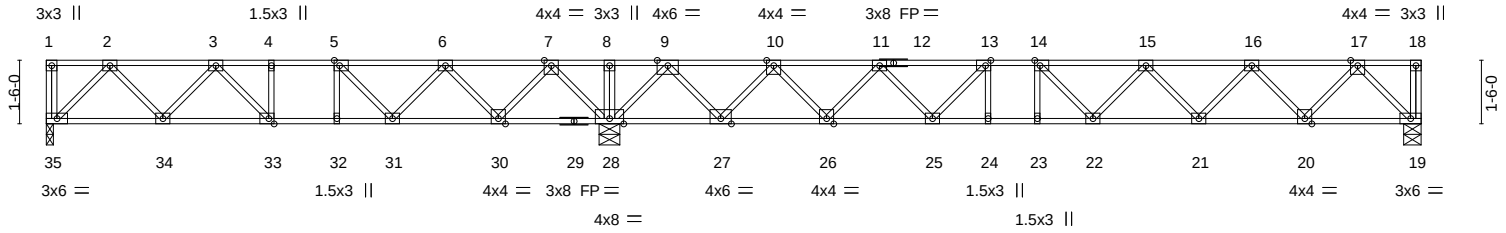

13-3-9 32-5-8
13-3-9 19-1-15

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [33:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.19	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.30	22-23	>753	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 176 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 35=0-2-0, 19=0-4-15, 28=0-5-14
Max Grav 35=691(LC 3), 19=1076(LC 4), 28=2581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-970/0, 3-4=-1306/235, 4-5=-1306/235, 5-6=-959/618, 6-7=-20/1296, 7-8=0/2735, 8-9=0/2735, 9-10=-78/585, 10-11=-1711/0, 11-13=-2735/0, 13-14=-3169/0, 14-15=-3178/0, 15-16=-2743/0, 16-17=-1700/0
BOT CHORD 34-35=0/636, 33-34=0/1268, 32-33=-235/1306, 31-32=-235/1306, 30-31=-927/630, 28-30=-1752/0, 27-28=-1382/0, 26-27=-174/1036, 25-26=0/2356, 24-25=0/3169, 23-24=0/3169, 22-23=0/3169, 21-22=0/3114, 20-21=0/2356, 19-20=0/1016
WEBS 2-35=-899/0, 2-34=-8/497, 3-34=-443/99, 3-33=-387/55, 7-28=-1509/0, 7-30=0/1100, 6-30=-1061/0, 6-31=0/677, 5-31=-826/0, 5-32=0/257, 9-28=-1915/0, 9-27=0/1501, 10-27=-1476/0, 10-26=0/1054, 11-26=-1007/0, 11-25=0/658, 13-25=-820/0, 13-24=-15/345, 17-19=-1437/0, 17-20=0/1017, 16-20=-976/0, 16-21=0/574, 15-21=-551/0, 14-22=-182/334, 14-23=-326/34

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385569
PRYOR-F2B	F43	FLOOR	4	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:45 2021 Page 1
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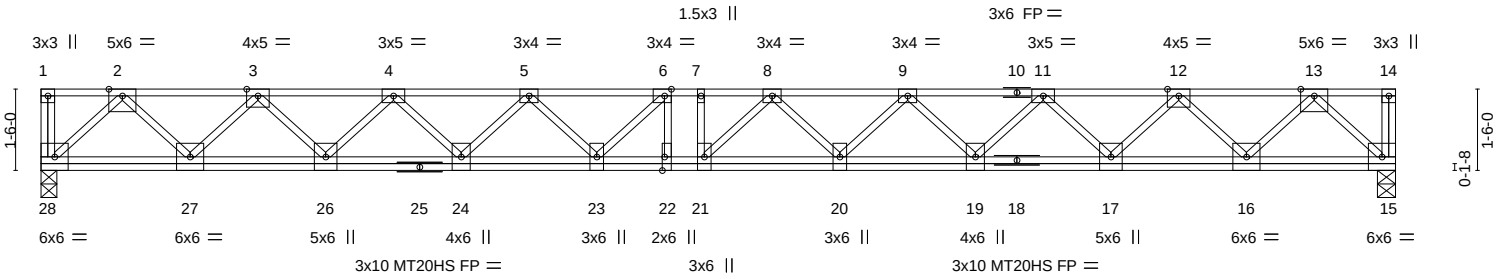

24-11-13
24-11-13

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [22:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.46	21	>642	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.75	20-21	>395	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 169 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-10: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
25-28,15-18: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 28=0-3-8, 15=0-4-0
Max Grav 28=1608(LC 1), 15=1608(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2832/0, 3-4=-4926/0, 4-5=-6402/0, 5-6=-7250/0, 6-7=-7524/0, 7-8=-7524/0, 8-9=-7256/0, 9-11=-6400/0, 11-12=-4919/0, 12-13=-2830/0
BOT CHORD 27-28=0/1613, 26-27=0/4026, 24-26=0/5804, 23-24=0/6975, 22-23=0/7524, 21-22=0/7524, 20-21=0/7517, 19-20=0/6974, 17-19=0/5799, 16-17=0/4022, 15-16=0/1612
WEBS 2-28=-2230/0, 2-27=0/1767, 3-27=-1732/0, 3-26=0/1305, 4-26=-1273/0, 4-24=0/867, 5-24=-831/0, 5-23=0/558, 6-23=-648/79, 6-22=-271/272, 13-15=-2228/0, 13-16=0/1766, 12-16=-1730/0, 12-17=0/1300, 11-17=-1276/0, 11-19=0/871, 9-19=-834/0, 9-20=0/480, 8-20=-490/0, 8-21=-346/398

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F44	Floor	3	1	I49385570
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:45 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kO76ChwENuVxWyfUbZqppR1G71DJOshuMEjJ68y6iwu

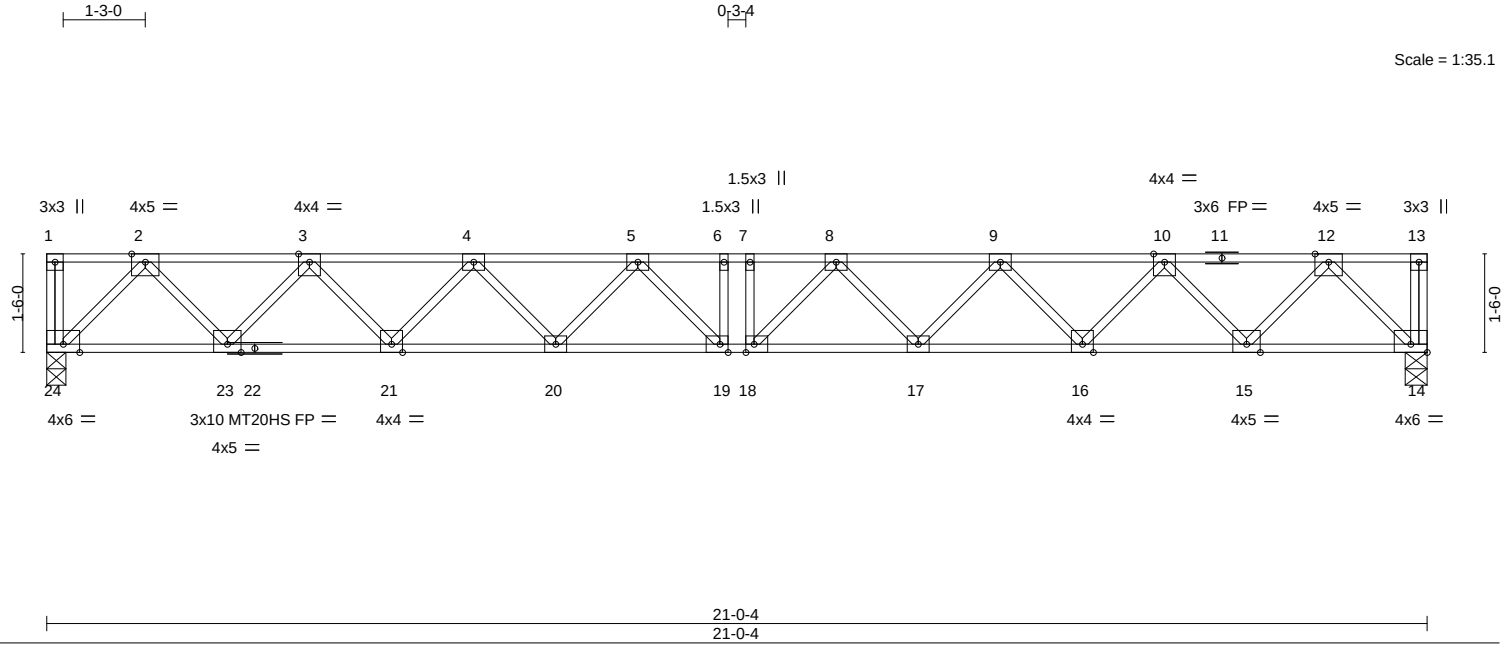

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.34	19	>741	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.55	19	>456	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 19-20,17-18.

REACTIONS. (size) 24=0-3-8, 14=0-4-0
Max Grav 24=1350(LC 1), 14=1350(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2223/0, 3-4=-3762/0, 4-5=-4702/0, 5-6=-5085/0, 6-7=-5085/0, 7-8=-5085/0, 8-9=-4702/0, 9-10=-3762/0, 10-12=-2223/0
BOT CHORD 23-24=0/1289, 21-23=0/3131, 20-21=0/4371, 19-20=0/5010, 18-19=0/5085, 17-18=0/5010, 16-17=0/4371, 15-16=0/3131, 14-15=0/1289
WEBS 2-24=-1822/0, 2-23=0/1389, 3-23=-1350/0, 3-21=0/937, 4-21=-906/0, 4-20=0/492, 5-20=-464/0, 5-19=-205/386, 12-14=-1823/0, 12-15=0/1389, 10-15=-1350/0, 10-16=0/937, 9-16=-906/0, 9-17=0/492, 8-17=-464/0, 8-18=-205/386

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F45	Floor	1	1	I49385571
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:46 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CahUQ1xs8Cdo76Eg9HL2MfaTdRa67KC2buSseay6iwt

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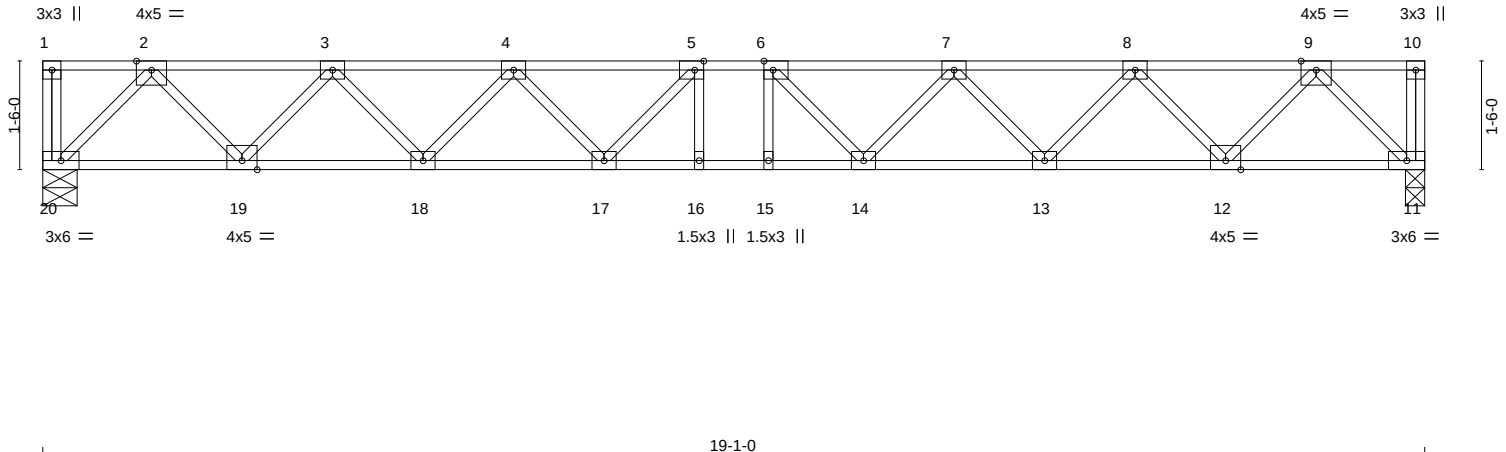

19-1-0
19-1-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.23	16	>983	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.37	15-16	>605	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-5-11, 11=0-3-3
Max Grav 20=1224(LC 1), 11=1224(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1983/0, 3-4=-3295/0, 4-5=-4000/0, 5-6=-4201/0, 6-7=-4000/0, 7-8=-3295/0, 8-9=-1983/0
BOT CHORD 19-20=0/1163, 18-19=0/2777, 17-18=0/3791, 16-17=0/4201, 15-16=0/4201, 14-15=0/4201, 13-14=0/3791, 12-13=0/2777, 11-12=0/1163
WEBS 2-20=-1645/0, 2-19=0/1218, 3-19=-1180/0, 3-18=0/770, 4-18=-737/0, 4-17=0/425, 5-17=-492/44, 9-11=-1645/0, 9-12=0/1218, 8-12=-1180/0, 8-13=0/770, 7-13=-737/0, 7-14=0/425, 6-14=-492/44

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385572
PRYOR-F2B	F46	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gmFsdNyVvWIfIGpsi_sHvs7heruosq0BpYCQA0y6iws

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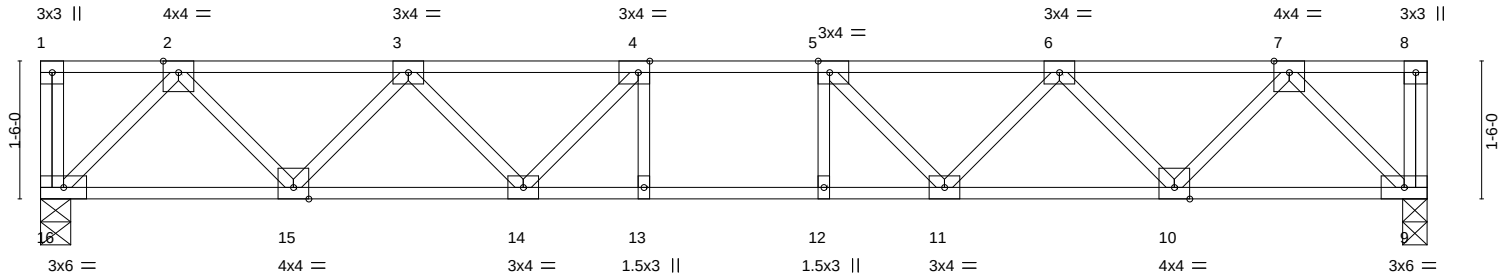

15-1-0
15-1-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.18	13-14	>985	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-3-15, 9=0-3-3
Max Grav 16=964(LC 1), 9=964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1490/0, 3-4=-2320/0, 4-5=-2584/0, 5-6=-2320/0, 6-7=-1490/0
BOT CHORD 15-16=0/902, 14-15=0/2051, 13-14=0/2584, 12-13=0/2584, 11-12=0/2584, 10-11=0/2051, 9-10=0/902
WEBS 2-16=-1276/0, 2-15=0/874, 3-15=-834/0, 3-14=0/450, 4-14=-536/0, 7-9=-1276/0, 7-10=0/874, 6-10=-834/0, 6-11=0/450, 5-11=-536/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385573
PRYOR-F2B	F47	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-gmFsdNyVvWlflGpsi_sHvs7kTr2ZstkBpYCQA0y6iws

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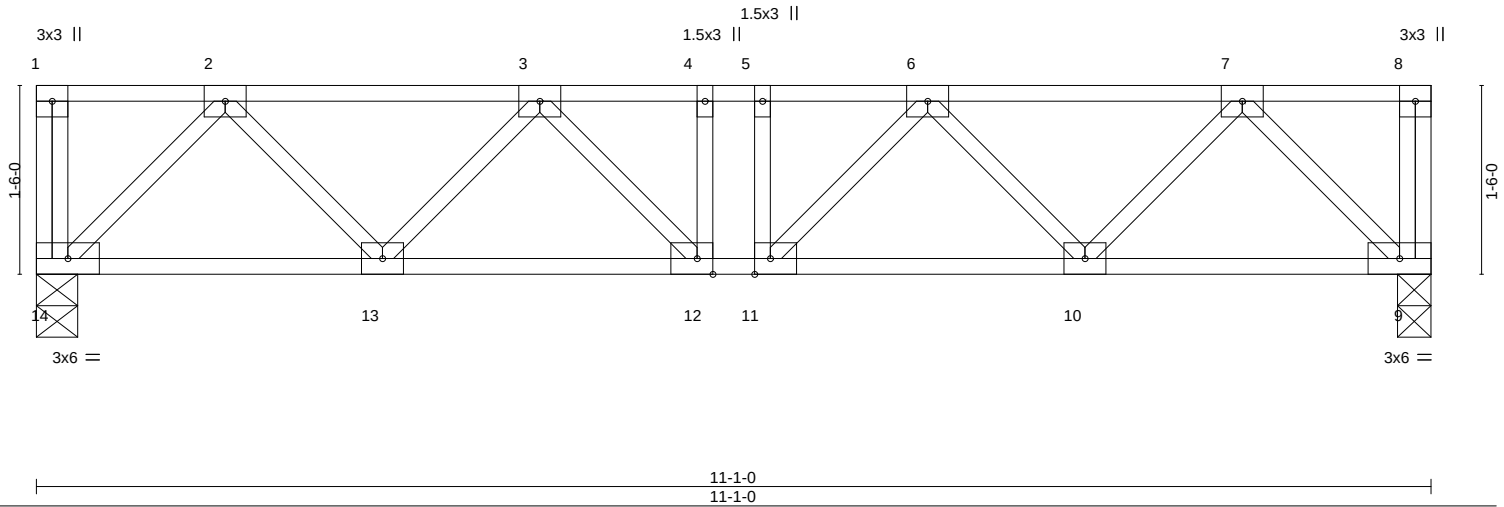

11-1-0
11-1-0

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.05	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-15, 9=0-3-3
Max Grav 14=704(LC 1), 9=704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-991/0, 3-4=-1382/0, 4-5=-1382/0, 5-6=-1382/0, 6-7=-991/0
BOT CHORD 13-14=0/648, 12-13=0/1307, 11-12=0/1382, 10-11=0/1307, 9-10=0/648
WEBS 2-14=-916/0, 2-13=0/510, 3-13=-470/0, 7-9=-916/0, 7-10=0/510, 6-10=-470/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F48	Floor	1	1	I49385574
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:48 2021 Page 1
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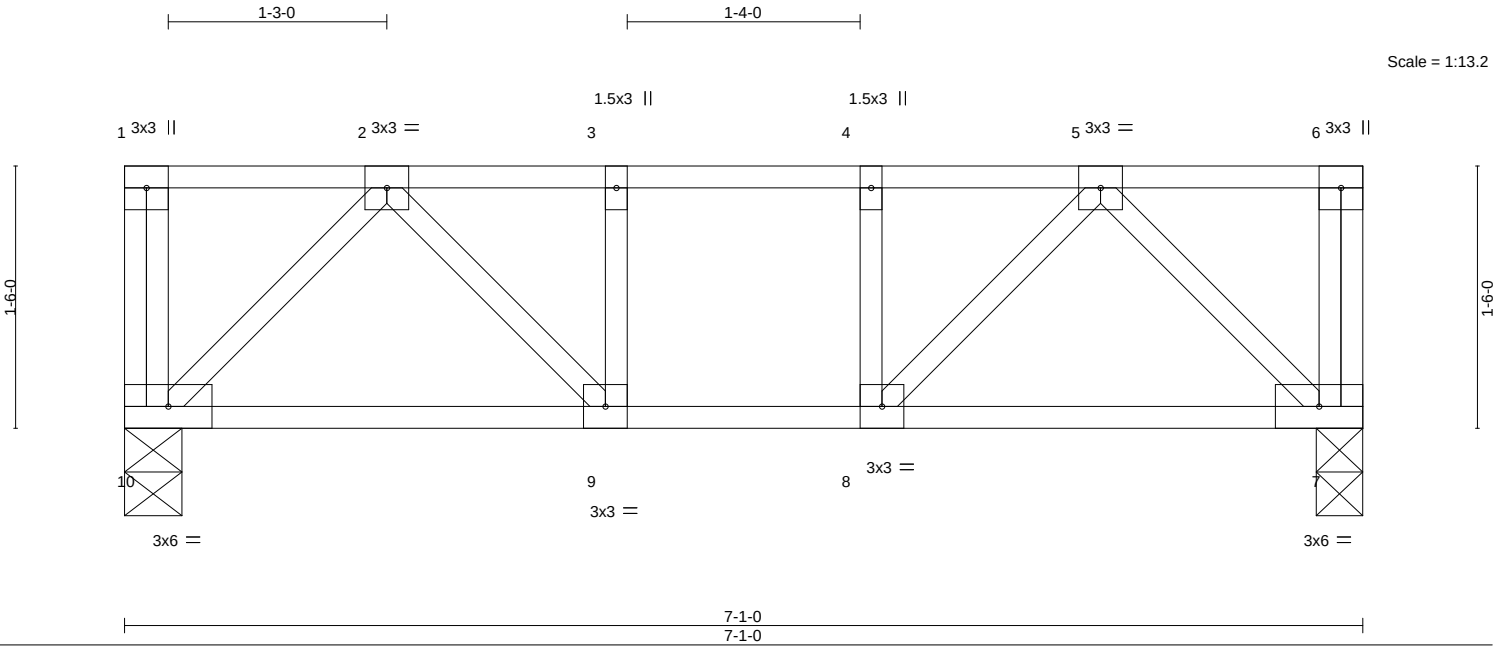

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-15, 7=0-3-3
Max Grav 10=444(LC 1), 7=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-542/0, 3-4=-542/0, 4-5=-542/0
BOT CHORD	9-10=0/365, 8-9=0/542, 7-8=0/365
WEBS	2-10=-516/0, 2-9=0/289, 5-7=-516/0, 5-8=0/289

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F49	Floor	1	1	I49385575
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:48 2021 Page 1
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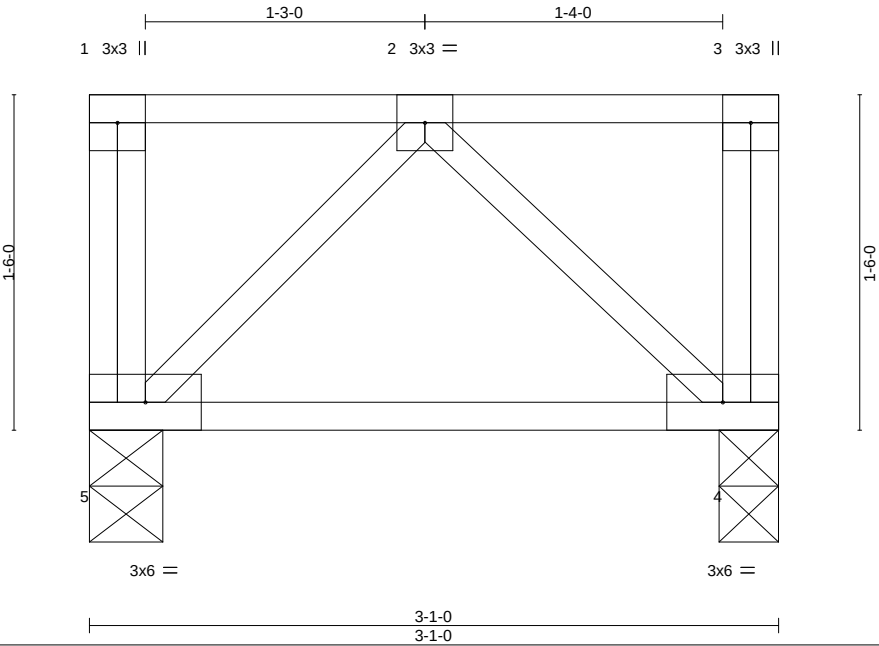

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-15, 4=0-3-3
Max Grav 5=184(LC 1), 4=184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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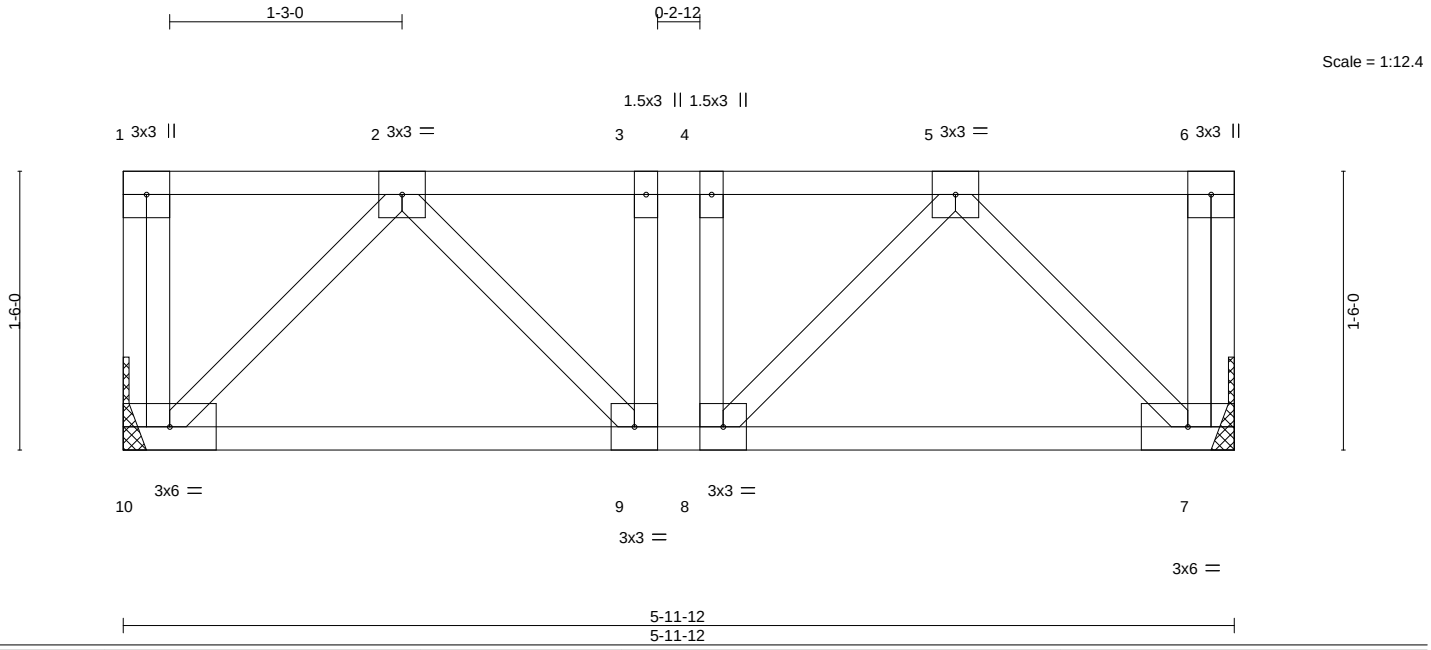
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F50	Floor	10	1	I49385576
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:50 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4Lw?FP_NCR7EcjYRO6P_WVlEF25i3EDeVWQ4nLy6iwp



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=716(LC 1), 7=716(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-758/0, 3-4=-758/0, 4-5=-758/0
BOT CHORD 9-10=0/573, 8-9=0/758, 7-8=0/573
WEBS 2-10=-811/0, 2-9=0/318, 5-7=-811/0, 5-8=0/318

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F51	Floor	4	1	I49385577
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:51 2021 Page 1
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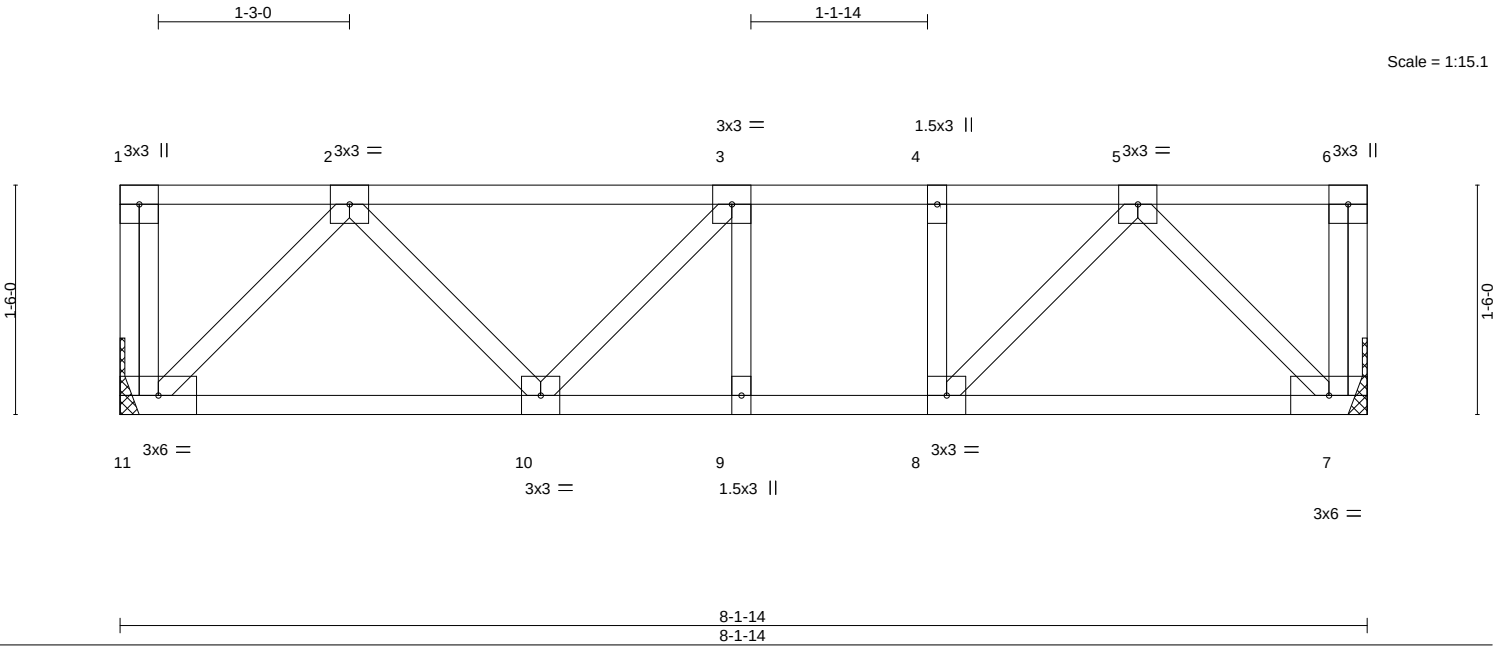

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Grav 11=514(LC 1), 7=514(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-623/0, 3-4=-720/0, 4-5=-720/0
BOT CHORD	10-11=0/470, 9-10=0/720, 8-9=0/720, 7-8=0/441
WEBS	2-11=-665/0, 5-7=-623/0, 5-8=0/421

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385578
PRYOR-F2B	F52	Floor	7	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:51 2021 Page 1
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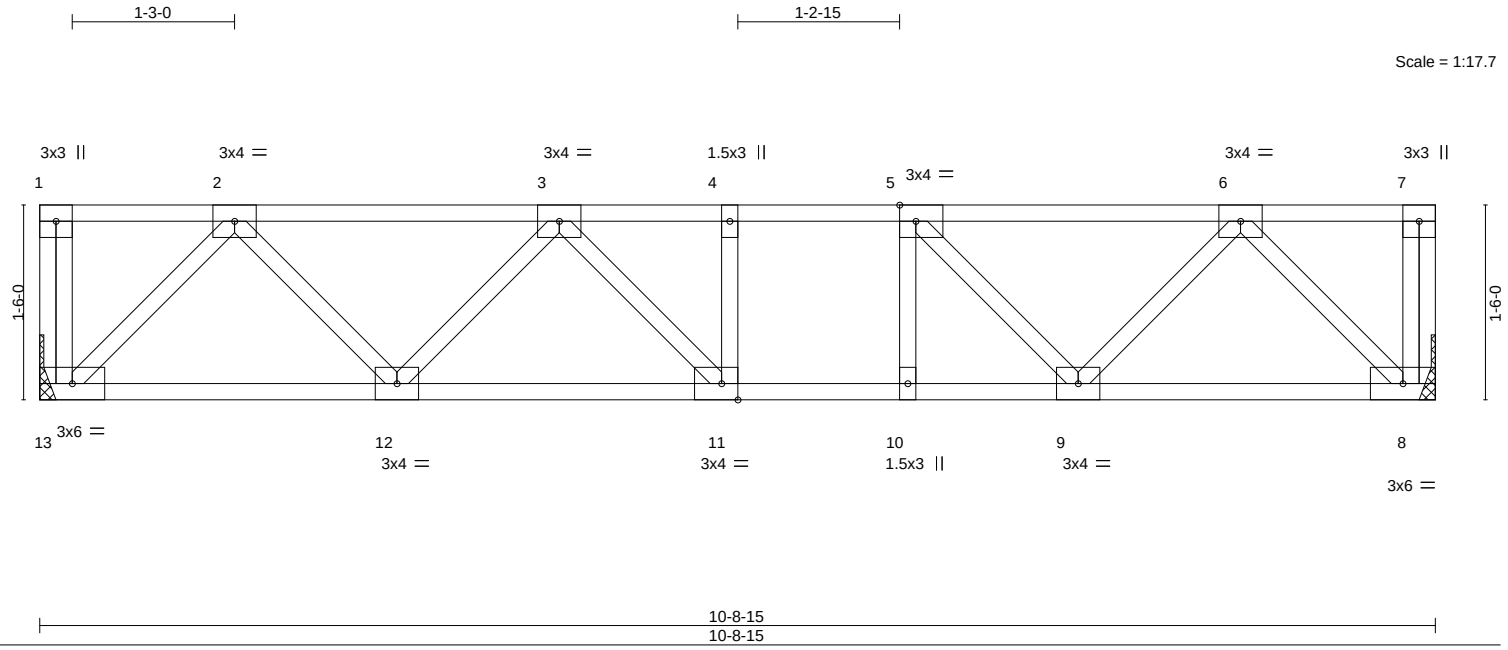

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.05	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.08	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=Mechanical
Max Grav 13=682(LC 1), 8=682(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-952/0, 3-4=-1278/0, 4-5=-1278/0, 5-6=-948/0
BOT CHORD 12-13=0/626, 11-12=0/1244, 10-11=0/1278, 9-10=0/1278, 8-9=0/623
WEBS 2-13=-886/0, 2-12=0/484, 3-12=-435/0, 6-8=-881/0, 6-9=0/483, 5-9=-482/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F53	Floor	4	1	I49385579
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:52 2021 Page 1
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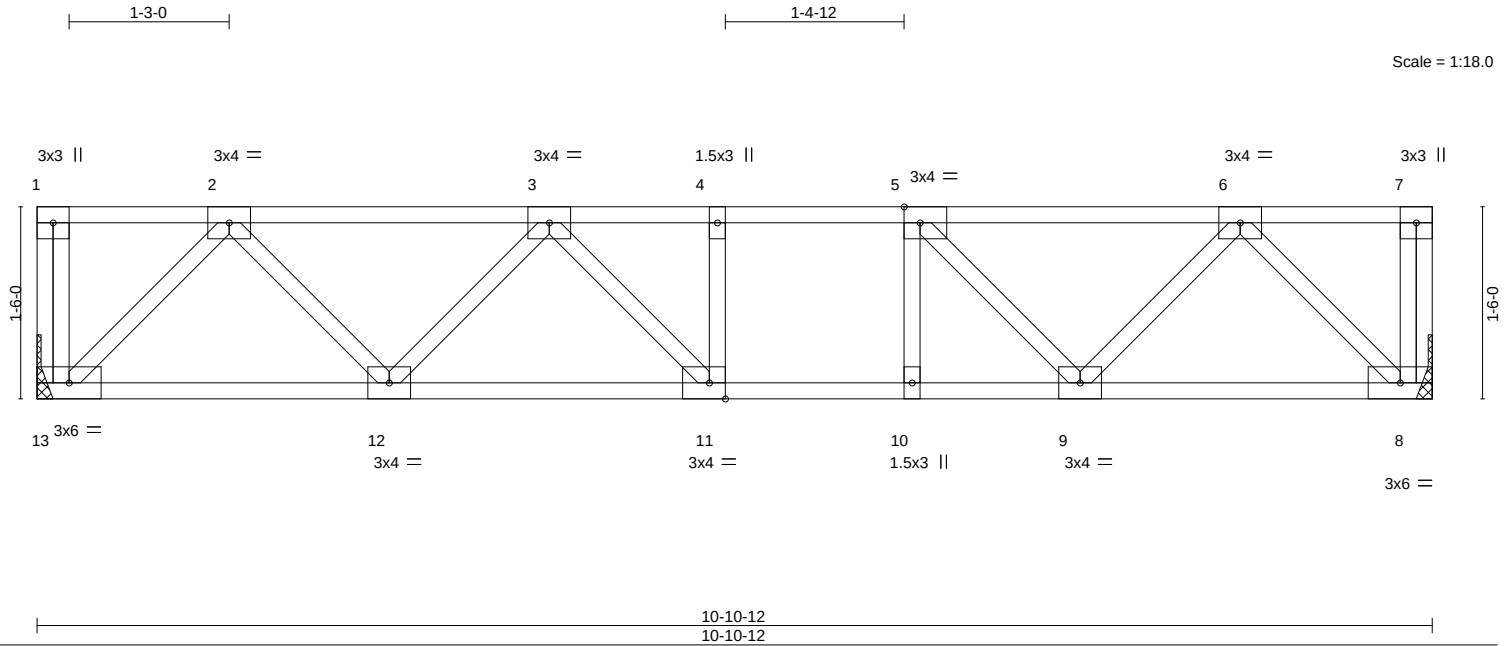

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.09	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=Mechanical
Max Grav 13=692(LC 1), 8=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-971/0, 3-4=-1312/0, 4-5=-1312/0, 5-6=-967/0
BOT CHORD 12-13=0/636, 11-12=0/1271, 10-11=0/1312, 9-10=0/1312, 8-9=0/632
WEBS 2-13=-900/0, 2-12=0/498, 3-12=-446/0, 6-8=-893/0, 6-9=0/499, 5-9=-507/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F54	Floor	4	1	I49385580
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:52 2021 Page 1
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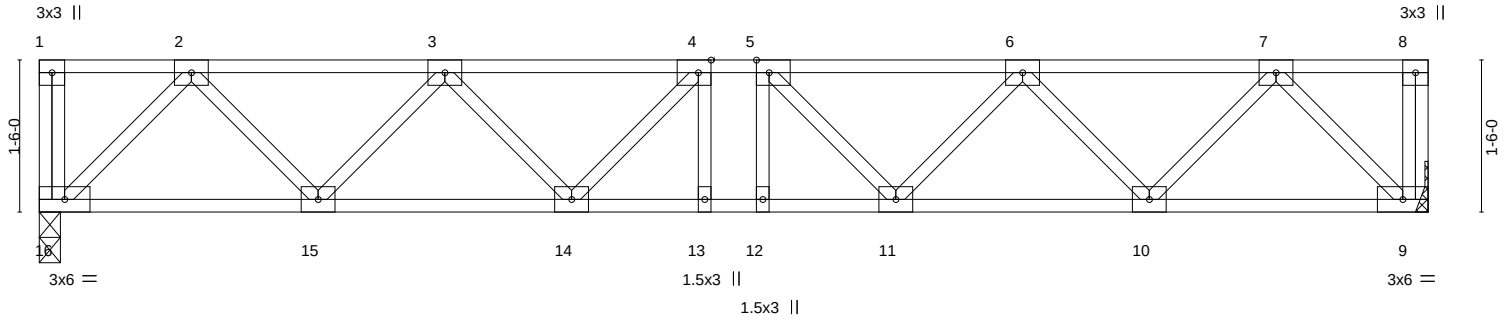

13-8-6
13-8-6

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 9=Mechanical
Max Grav 16=874(LC 1), 9=874(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1319/0, 3-4=-1985/0, 4-5=-2161/0, 5-6=-1985/0, 6-7=-1319/0
BOT CHORD 15-16=0/813, 14-15=0/1799, 13-14=0/2161, 12-13=0/2161, 11-12=0/2161, 10-11=0/1799, 9-10=0/813
WEBS 2-16=-1149/0, 2-15=0/753, 3-15=-714/0, 3-14=0/322, 4-14=-346/0, 7-9=-1149/0, 7-10=0/753, 6-10=-714/0, 6-11=0/322, 5-11=-346/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F55	Floor	2	1	I49385581
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:53 2021 Page 1
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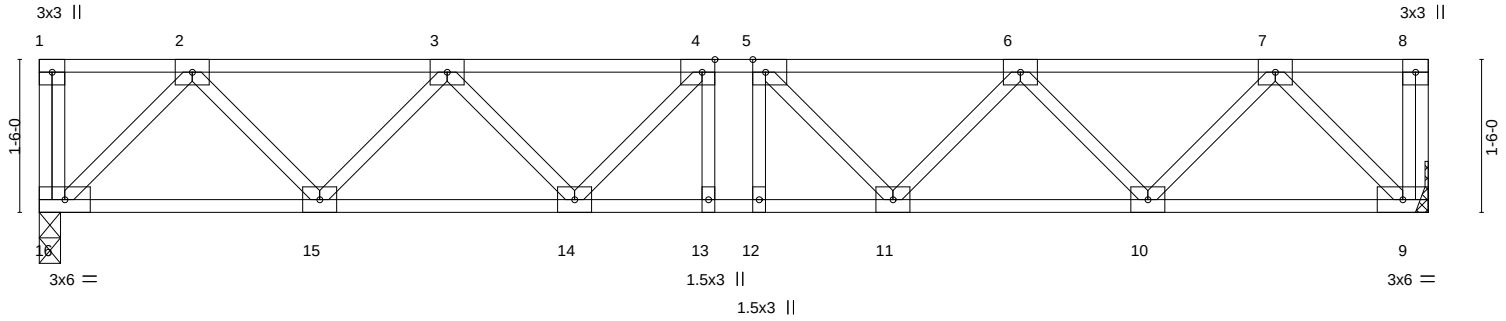

13-7-7
13-7-7

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-8, 9=Mechanical
Max Grav 16=869(LC 1), 9=869(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1309/0, 3-4=-1967/0, 4-5=-2139/0, 5-6=-1967/0, 6-7=-1309/0
BOT CHORD 15-16=0/808, 14-15=0/1785, 13-14=0/2139, 12-13=0/2139, 11-12=0/2139, 10-11=0/1785, 9-10=0/808
WEBS 2-16=-1142/0, 2-15=0/746, 3-15=-707/0, 3-14=0/316, 4-14=-336/0, 7-9=-1142/0, 7-10=0/746, 6-10=-707/0, 6-11=0/316, 5-11=-336/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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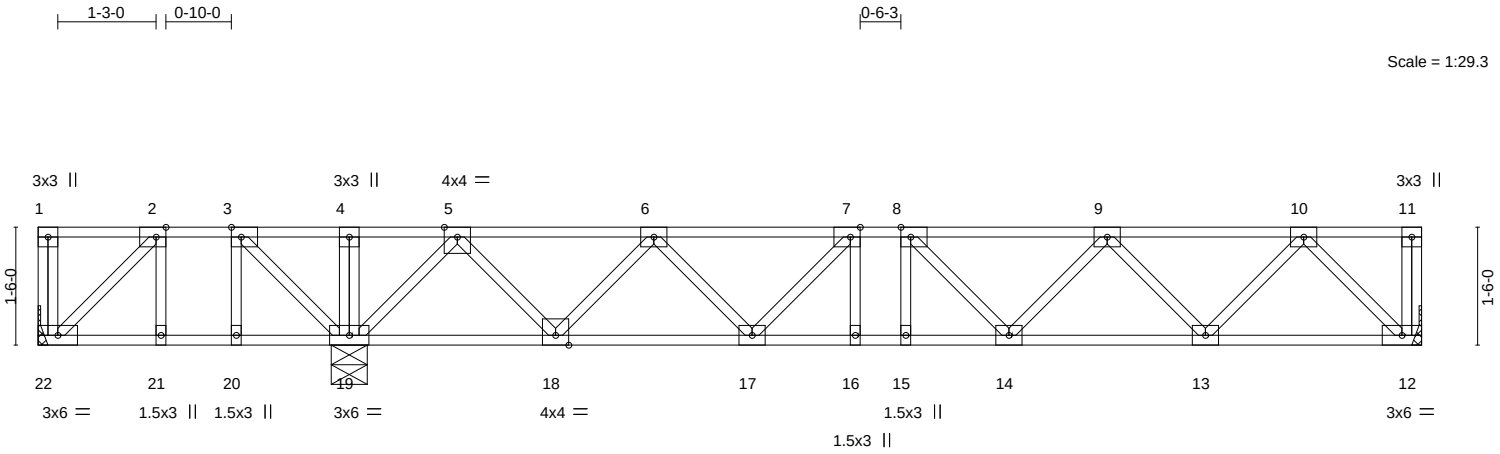
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F56	Floor	6	1	I49385582
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:54 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-z6AW5m1uGfdf5LrCdyUwhLvrLgN8??tDQ8OIw6y6iwl



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

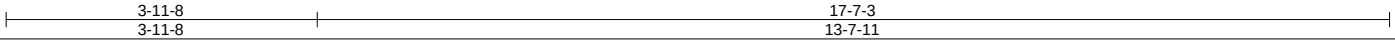


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.06	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.10	15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 102 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,20-21,19-20.

REACTIONS. (size) 22=Mechanical, 12=Mechanical, 19=0-5-8
Max Uplift 22=-144(LC 4)
Max Grav 22=155(LC 3), 12=815(LC 7), 19=1439(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-45/264, 3-4=0/717, 4-5=0/717, 5-6=-829/0, 6-7=-1617/0, 7-8=-1871/0, 8-9=-1766/0, 9-10=-1207/0
BOT CHORD 21-22=-264/45, 20-21=-264/45, 19-20=-264/45, 18-19=0/260, 17-18=0/1367, 16-17=0/1871, 15-16=0/1871, 14-15=0/1871, 13-14=0/1636, 12-13=0/753
WEBS 2-22=-62/366, 3-19=-706/0, 5-19=-1258/0, 5-18=0/858, 6-18=-816/0, 6-17=0/388, 7-17=-429/0, 10-12=-1065/0, 10-13=0/675, 9-13=-638/0, 8-14=-261/39

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=144.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F57	Floor	3	1	I49385583
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:55 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-RJkuI62W0zlWiVQPAg?9DYS?f3fEkQMNfo8rTZy6iwk

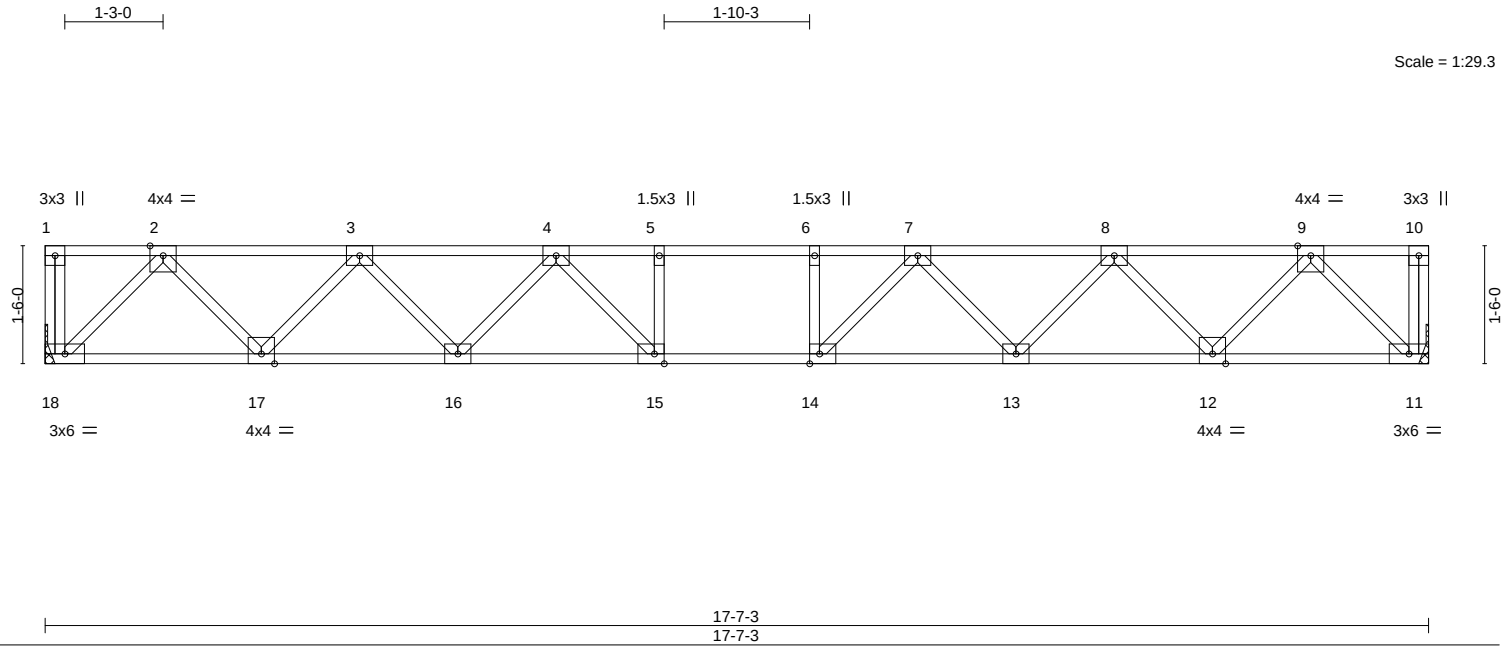

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.17	15-16	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.28	15-16	>754	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=Mechanical, 11=Mechanical
Max Grav 18=1128(LC 1), 11=1128(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1801/0, 3-4=-2930/0, 4-5=-3525/0, 5-6=-3525/0, 6-7=-3525/0, 7-8=-2930/0, 8-9=-1801/0
BOT CHORD 17-18=0/1066, 16-17=0/2511, 15-16=0/3326, 14-15=0/3525, 13-14=0/3326, 12-13=0/2511, 11-12=0/1066
WEBS 2-18=-1507/0, 2-17=0/1093, 3-17=-1056/0, 3-16=0/623, 4-16=-589/0, 4-15=-35/569, 9-11=-1507/0, 9-12=0/1093, 8-12=-1056/0, 8-13=0/623, 7-13=-589/0, 7-14=-35/569, 6-14=-301/0, 5-15=-301/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385584
PRYOR-F2B	F58	Floor	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:55 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-RJkuI62W0zIWiVQPAg?9DYS5T3mTkVjNfo8rTZy6iwk

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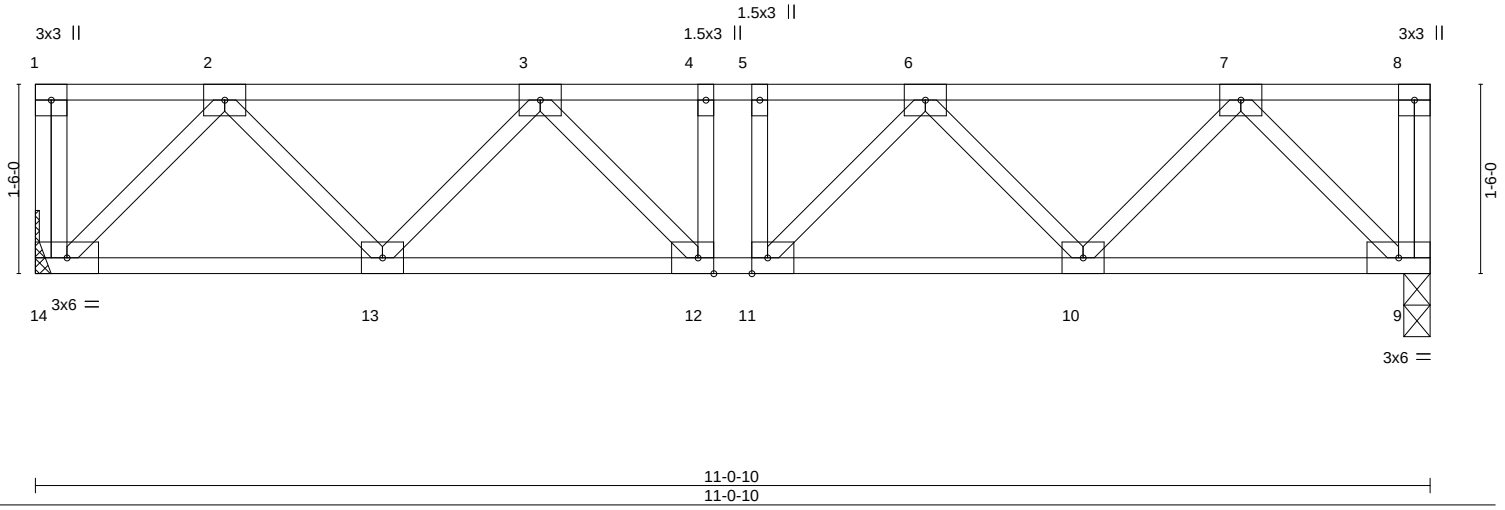

11-0-10
11-0-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.05	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-2-8
Max Grav 14=702(LC 1), 9=702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-987/0, 3-4=-1375/0, 4-5=-1375/0, 5-6=-1375/0, 6-7=-987/0
BOT CHORD 13-14=0/646, 12-13=0/1301, 11-12=0/1375, 10-11=0/1301, 9-10=0/646
WEBS 2-14=-913/0, 2-13=0/507, 3-13=-467/0, 7-9=-913/0, 7-10=0/507, 6-10=-467/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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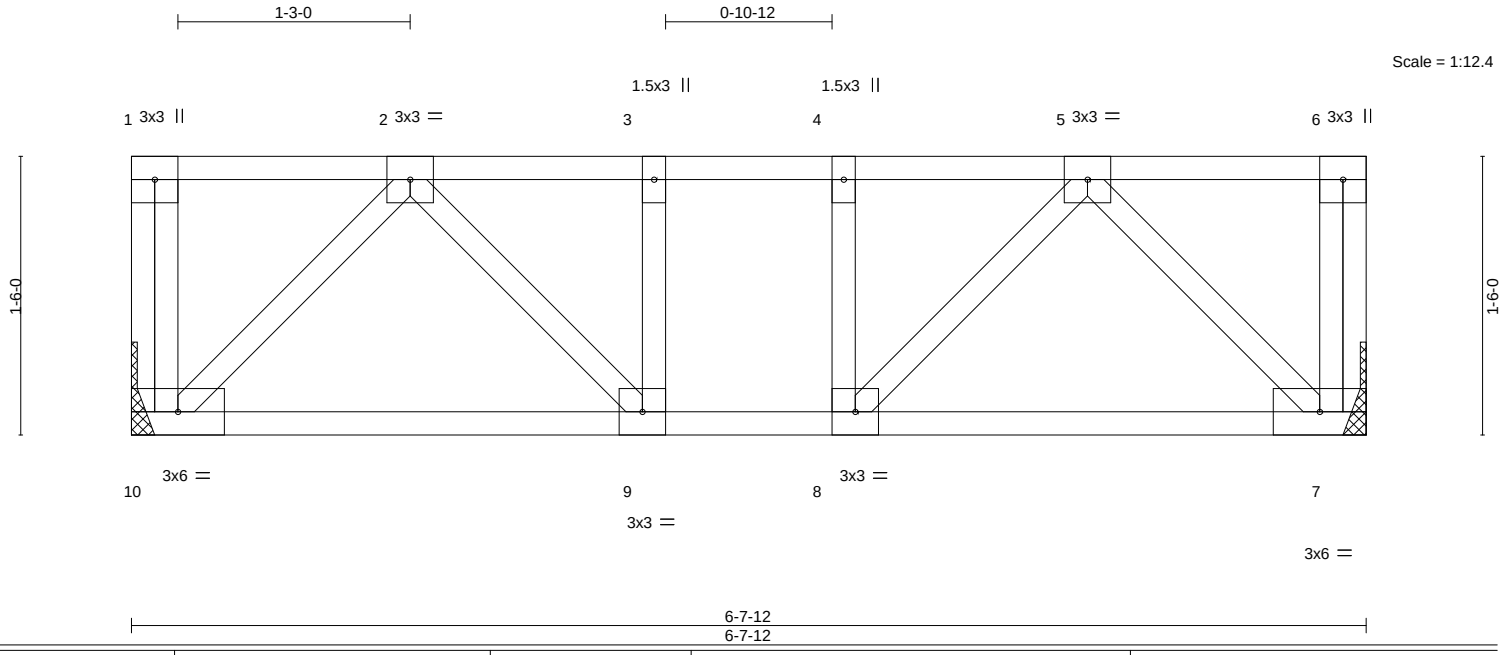
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385585
PRYOR-F2B	F59	Floor	8	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:56 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-vVHGWS28nHtNKe?bkNWOmm?IkT9lT_yWuStO??y6iwj



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=416(LC 1), 7=416(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-482/0, 3-4=-482/0, 4-5=-482/0
BOT CHORD	9-10=0/338, 8-9=0/482, 7-8=0/338
WEBS	2-10=-478/0, 5-7=-478/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385586
PRYOR-F2B	F60	Floor	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:58 2021 Page 1
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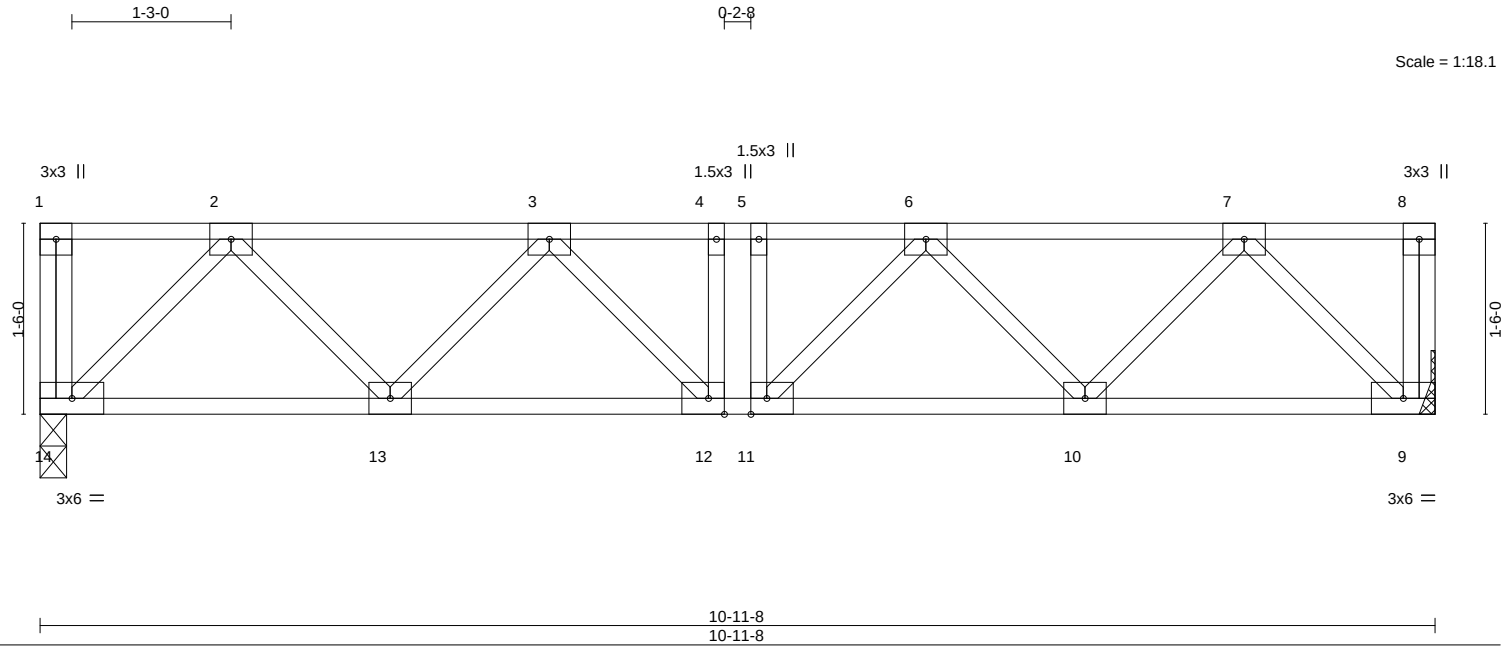

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.05	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=Mechanical
Max Grav 14=696(LC 1), 9=696(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-975/0, 3-4=-1352/0, 4-5=-1352/0, 5-6=-1352/0, 6-7=-975/0
BOT CHORD 13-14=0/640, 12-13=0/1284, 11-12=0/1352, 10-11=0/1284, 9-10=0/640
WEBS 2-14=-905/0, 2-13=0/499, 3-13=-459/0, 7-9=-905/0, 7-10=0/499, 6-10=-459/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F61	Floor	9	1	I49385587
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:59 2021 Page 1
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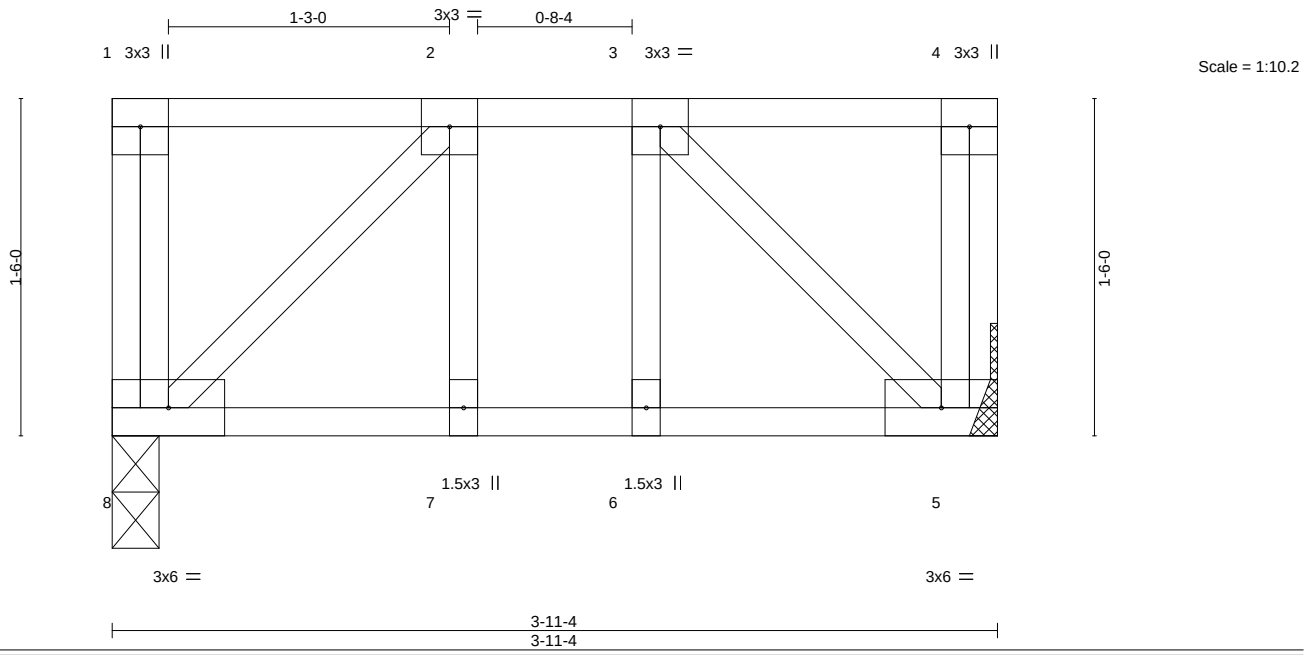

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 28 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-2-8, 5=Mechanical
Max Grav 8=240(LC 1), 5=240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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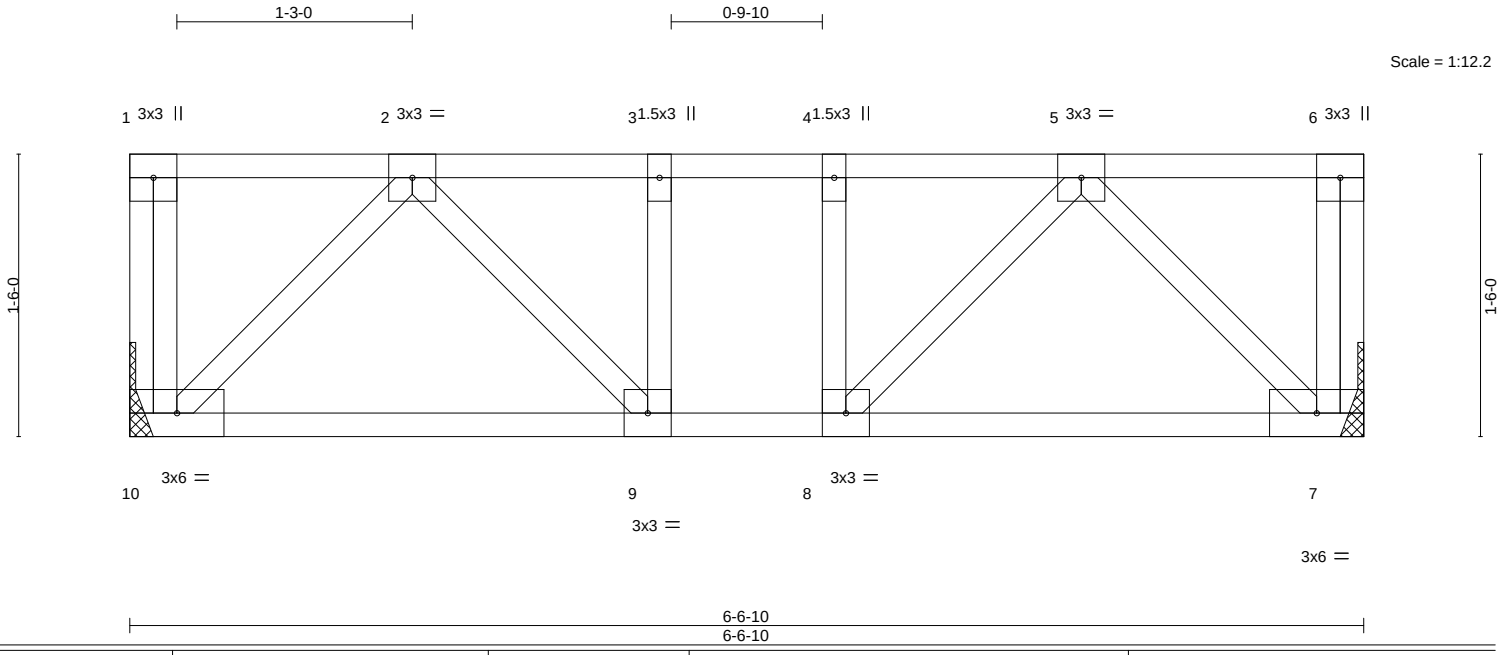
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385588
PRYOR-F2B	F62	Floor	8	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:42:59 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-J4zP8U504CGyB6kAPV45OOcpzhBZgLkyaQ62cKy6iwg



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=410(LC 1), 7=410(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-469/0, 3-4=-469/0, 4-5=-469/0
BOT CHORD 9-10=0/332, 8-9=0/469, 7-8=0/332
WEBS 2-10=-470/0, 5-7=-470/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385589
PRYOR-F2B	F63	Floor	11	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-nGXnMq6erVOppGJMzDbKwc9sQ4PFPiZ6p4rc8my6iwf

1-3-0 0-10-6 0-6-14

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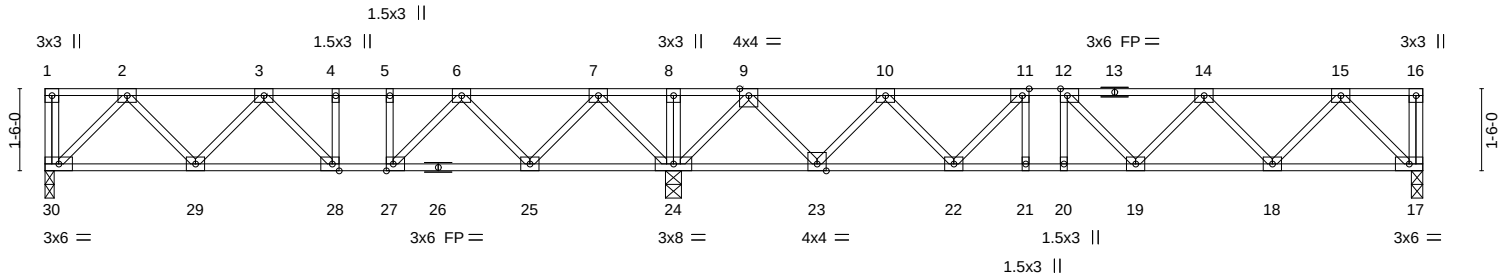

11-5-14 11-5-14 | 25-2-4 13-8-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.06	20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.09	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 141 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 30=0-2-0, 17=0-2-8, 24=0-3-8
Max Grav 30=624(LC 3), 17=762(LC 4), 24=1964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-844/0, 3-4=-1045/10, 4-5=-1045/10, 5-6=-1045/10, 6-7=-324/512, 7-8=0/1520, 8-9=0/1520, 9-10=-373/244, 10-11=-1277/0, 11-12=-1604/0, 12-14=-1566/0, 14-15=-1105/0
BOT CHORD 29-30=0/569, 28-29=0/1081, 27-28=-10/1045, 25-27=-245/783, 24-25=-785/0, 23-24=-586/0, 22-23=0/969, 21-22=0/1604, 20-21=0/1604, 19-20=0/1604, 18-19=0/1488, 17-18=0/699
WEBS 2-30=-805/0, 2-29=0/409, 3-29=-352/21, 3-28=-309/0, 7-24=-1204/0, 7-25=0/789, 6-25=-787/0, 6-27=0/601, 5-27=-296/0, 9-24=-1360/0, 9-23=0/965, 10-23=-932/0, 10-22=0/509, 11-22=-567/0, 15-17=-988/0, 15-18=0/604, 14-18=-569/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 30, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 22,2021

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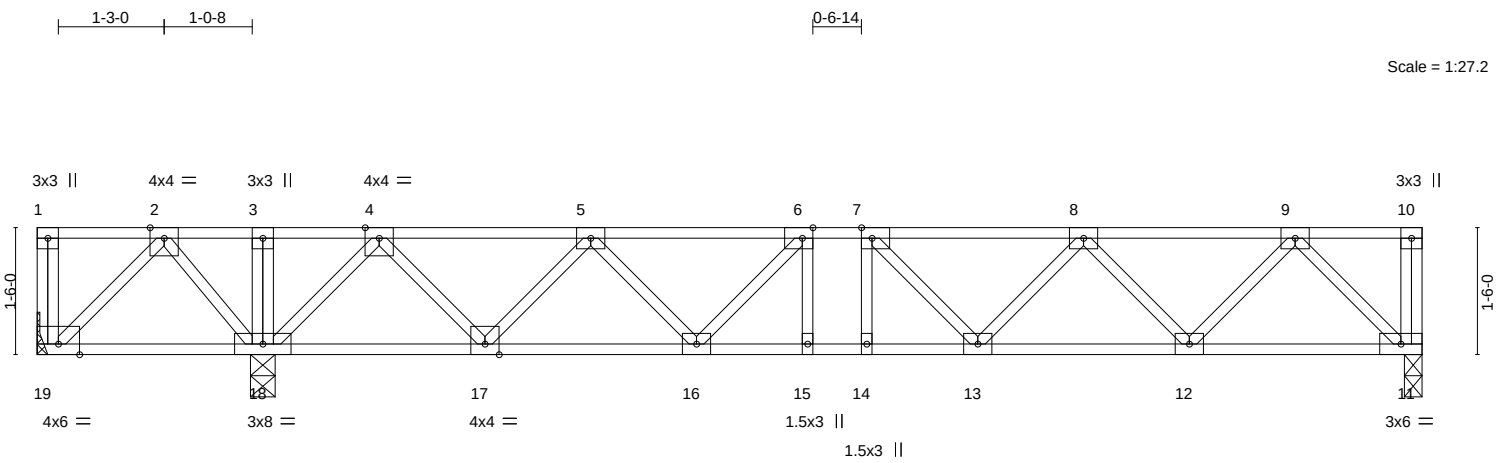
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F64	Floor	4	1	I49385590
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:01 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GT59Z96HcpWgQQtYXw6ZTpi2VUkT88TF1kb9gCy6iwe



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

2-8-0
2-8-0
16-4-6
13-8-6

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.05	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.09	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18.

REACTIONS. (size) 19=Mechanical, 11=0-2-8, 18=0-3-8
Max Uplift 19=-686(LC 4)
Max Grav 11=742(LC 4), 18=1941(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1369, 3-4=0/1370, 5-6=-1155/0, 6-7=-1505/0, 7-8=-1491/0, 8-9=-1067/0
BOT CHORD 18-19=-716/0, 17-18=-428/0, 16-17=0/827, 15-16=0/1505, 14-15=0/1505, 13-14=0/1505, 12-13=0/1432, 11-12=0/679
WEBS 2-19=0/1012, 2-18=-1092/0, 4-18=-1336/0, 4-17=0/947, 5-17=-913/0, 5-16=0/488, 9-11=-960/0, 9-12=0/578, 8-12=-543/0, 6-16=-514/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 686 lb uplift at joint 19.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 22,2021

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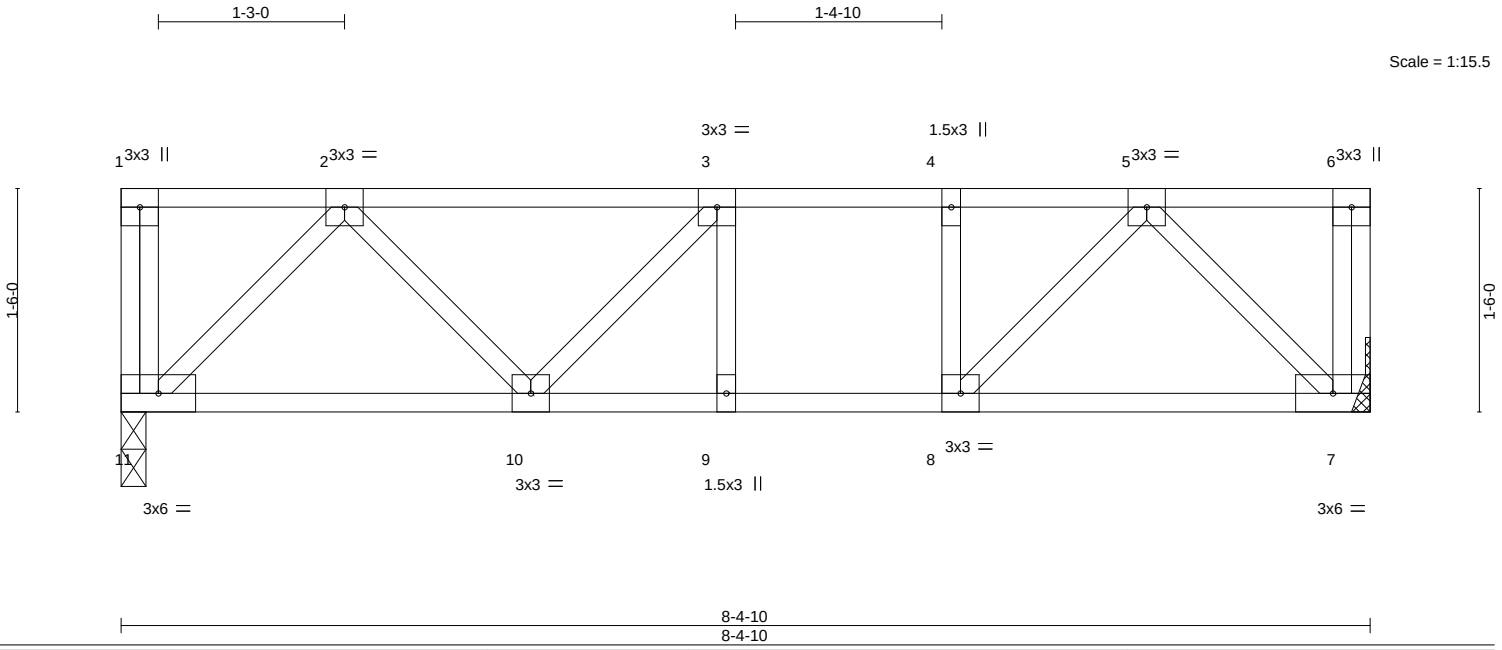
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385591
PRYOR-F2B	F65	Floor	4	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:01 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GT59Z96HcpWgQQtYXw6ZTpi53Umu8CbF1kb9gCy6iwe



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=Mechanical
Max Grav 11=529(LC 1), 7=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-651/0, 3-4=-758/0, 4-5=-758/0
BOT CHORD 10-11=0/486, 9-10=0/758, 8-9=0/758, 7-8=0/455
WEBS 2-11=-687/0, 5-7=-644/0, 5-8=0/457

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F66	Floor	4	1	I49385592
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:02 2021 Page 1
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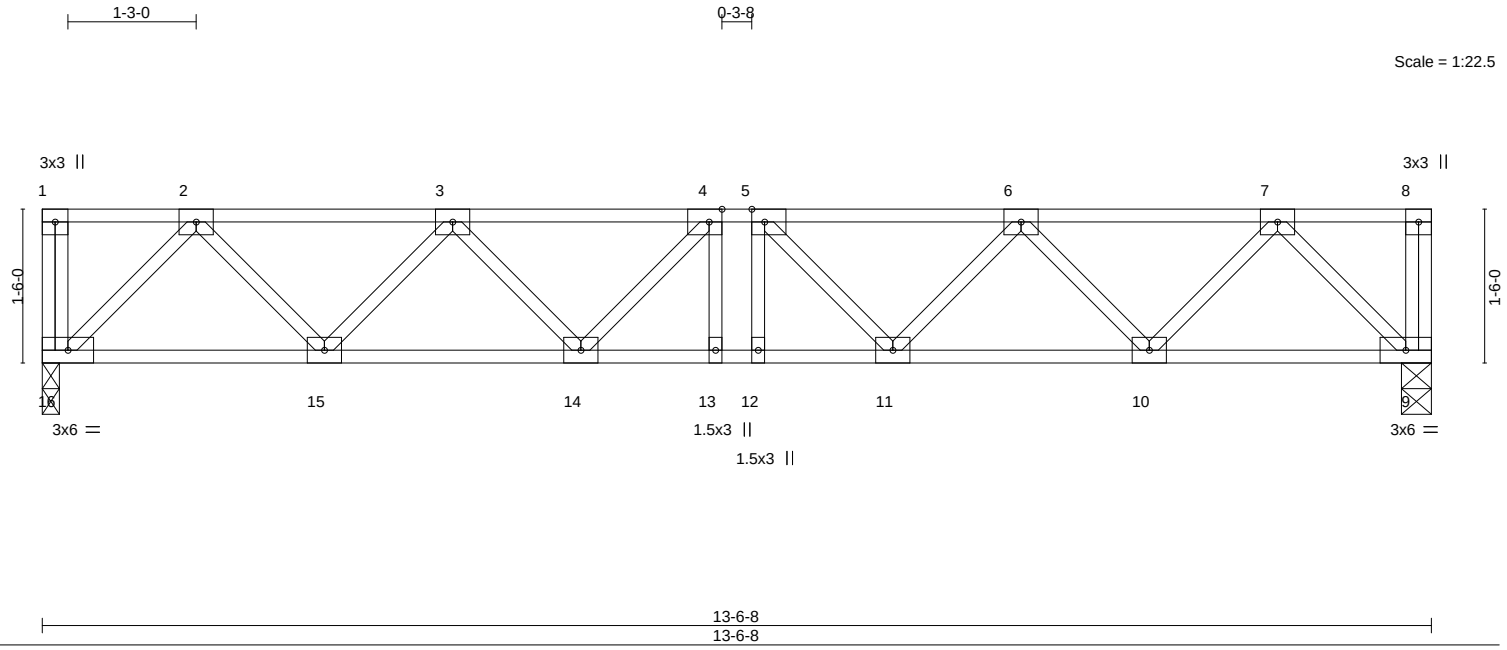

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=864(LC 1), 9=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1299/0, 3-4=-1948/0, 4-5=-2116/0, 5-6=-1948/0, 6-7=-1299/0
BOT CHORD 15-16=0/803, 14-15=0/1770, 13-14=0/2116, 12-13=0/2116, 11-12=0/2116, 10-11=0/1770, 9-10=0/803
WEBS 2-16=-1135/0, 2-15=0/738, 3-15=-699/0, 3-14=0/309, 4-14=-326/0, 7-9=-1135/0, 7-10=0/738, 6-10=-699/0, 6-11=0/309, 5-11=-326/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	F67	Floor	4	1	I49385593
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:02 2021 Page 1
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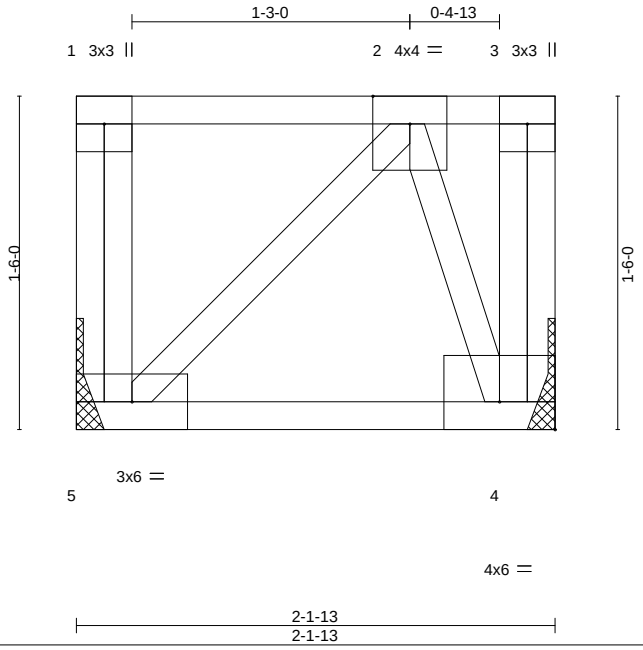

Scale = 1:10.4

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	-0.00	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 4=Mechanical
Max Grav 5=124(LC 1), 4=124(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385594
PRYOR-F2B	F68	Floor	3	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-CrDw_r8X8QmOgj1xeL81YEnOEIPPc1PYV14Gl5y6iwc

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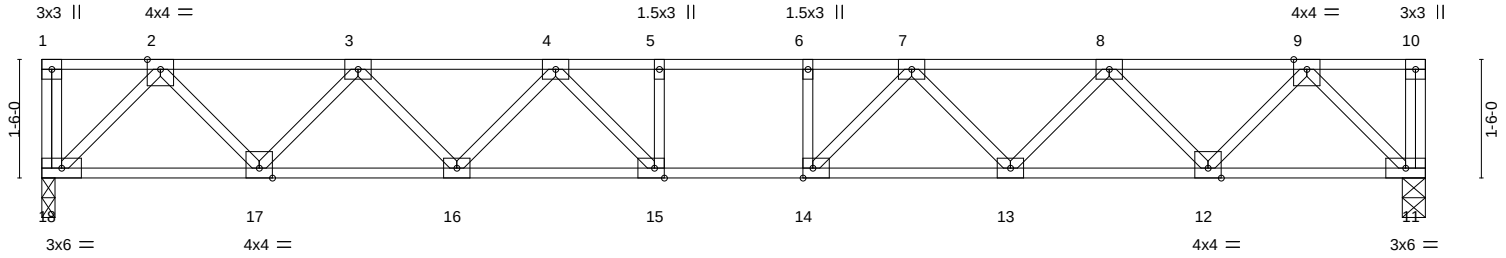

17-6-1
17-6-1

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.16	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.27	14-15	>773	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 11=0-3-8
Max Grav 18=1122(LC 1), 11=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1789/0, 3-4=-2907/0, 4-5=-3487/0, 5-6=-3487/0, 6-7=-3487/0, 7-8=-2907/0, 8-9=-1789/0
BOT CHORD 17-18=0/1059, 16-17=0/2494, 15-16=0/3298, 14-15=0/3487, 13-14=0/3298, 12-13=0/2494, 11-12=0/1059
WEBS 2-18=-1498/0, 2-17=0/1085, 3-17=-1047/0, 3-16=0/614, 4-16=-581/0, 4-15=-42/552, 5-15=-290/0, 9-11=-1498/0, 9-12=0/1085, 8-12=-1047/0, 8-13=0/614, 7-13=-581/0, 7-14=-42/552, 6-14=-290/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385595
PRYOR-F2B	FGR	FLOOR GIRDER	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:06 2021 Page 1
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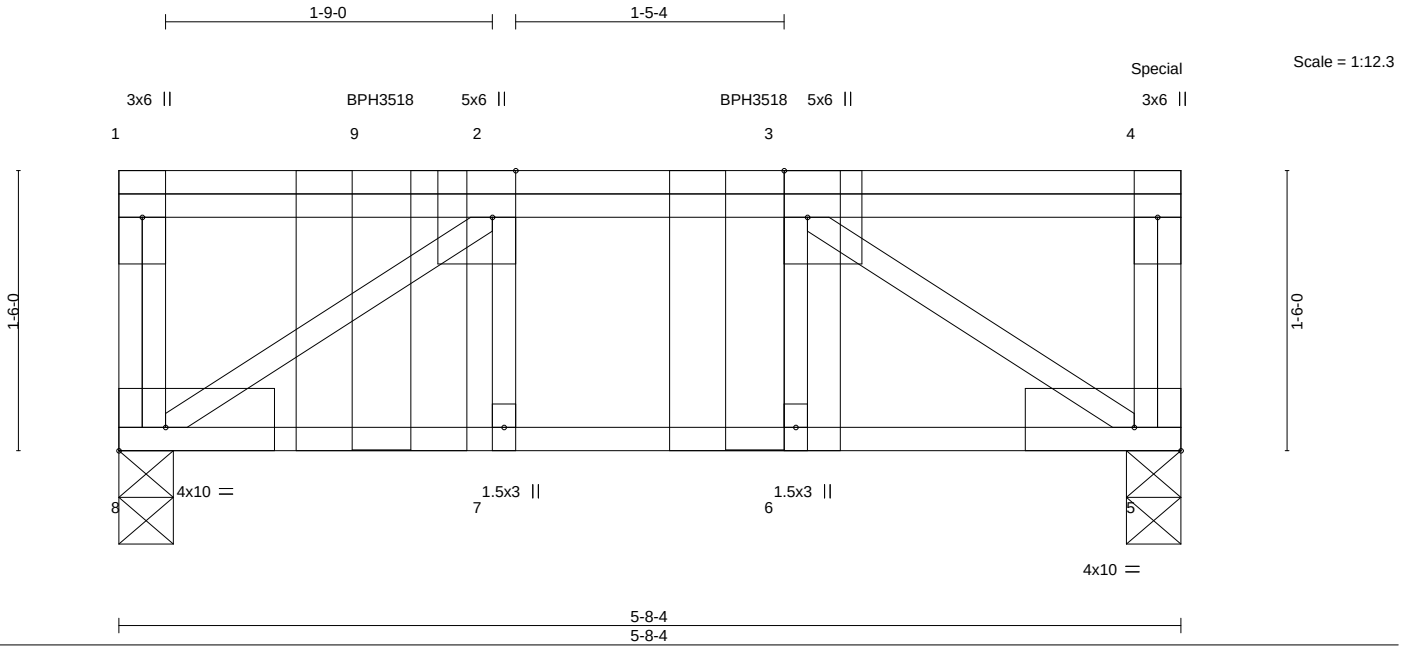

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2080(LC 1), 5=2702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-603/0, 4-5=-1225/0, 2-3=-2214/0
BOT CHORD 7-8=0/2214, 6-7=0/2214, 5-6=0/2214
WEBS 3-5=-2674/0, 2-8=-2674/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-14 from the left end to 3-4-14 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 849 lb down and 77 lb up at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-803(B) 3=-753(B) 9=-753(B)

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW1	GABLE	2	1	I49385596
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:07 2021 Page 1
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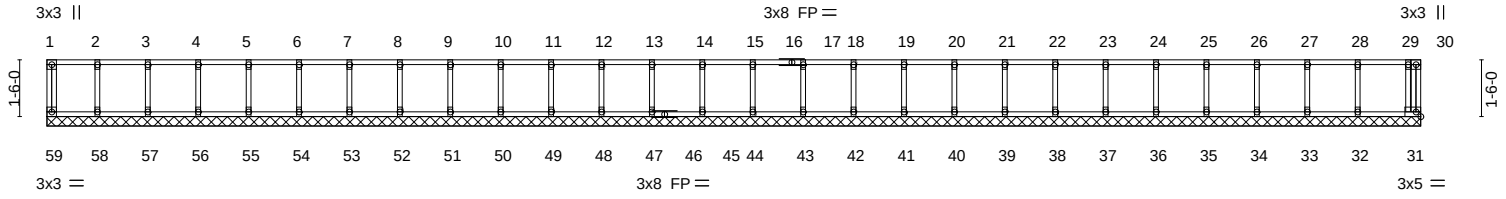

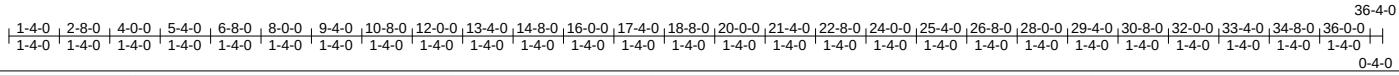

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 59, 31, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385597
PRYOR-F2B	KW2	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:10 2021 Page 1
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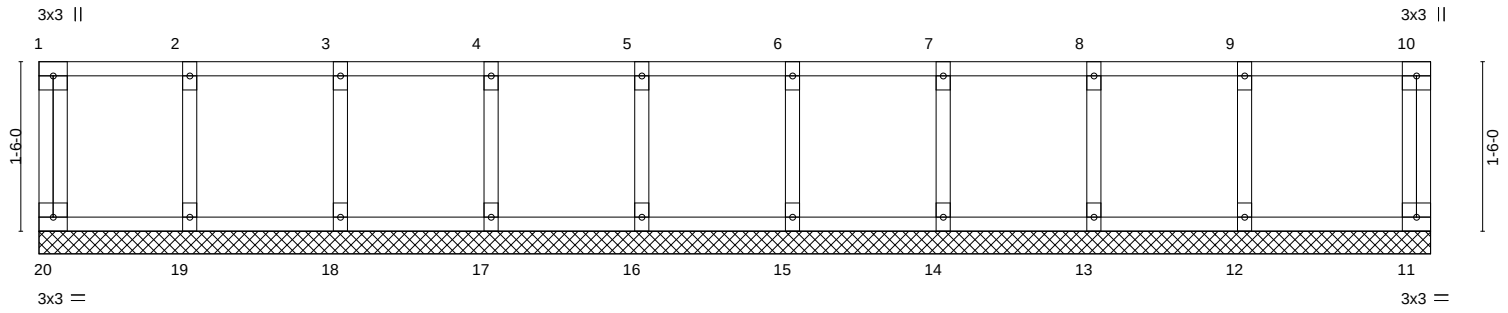

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385598
PRYOR-F2B	KW3	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:11 2021 Page 1
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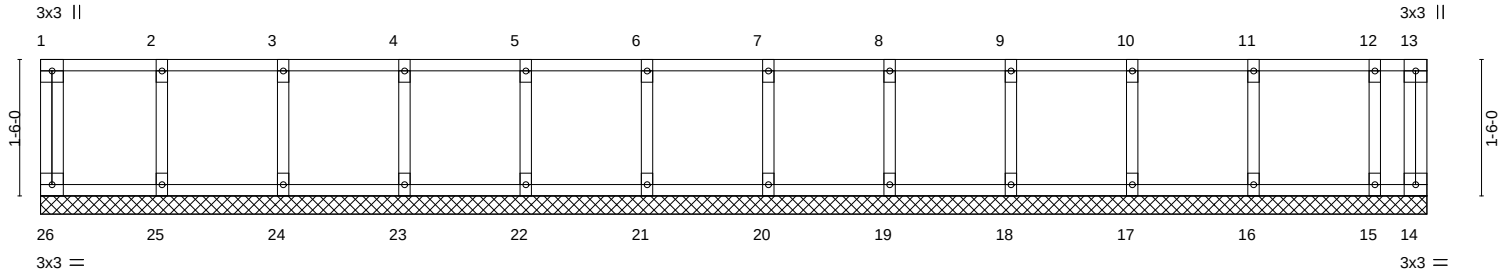

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-2-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-14

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-2-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW4	GABLE	1	1	I49385599
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:11 2021 Page 1
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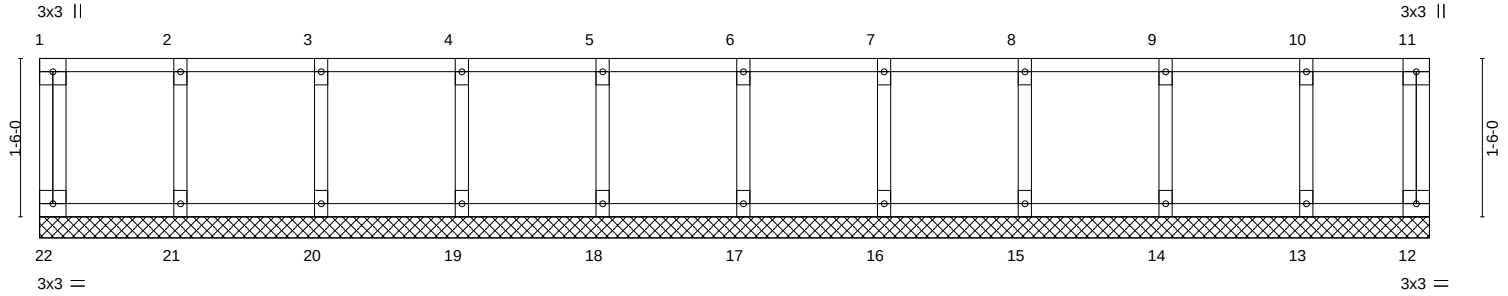

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-2-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW5	GABLE	1	1	I49385600
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:12 2021 Page 1
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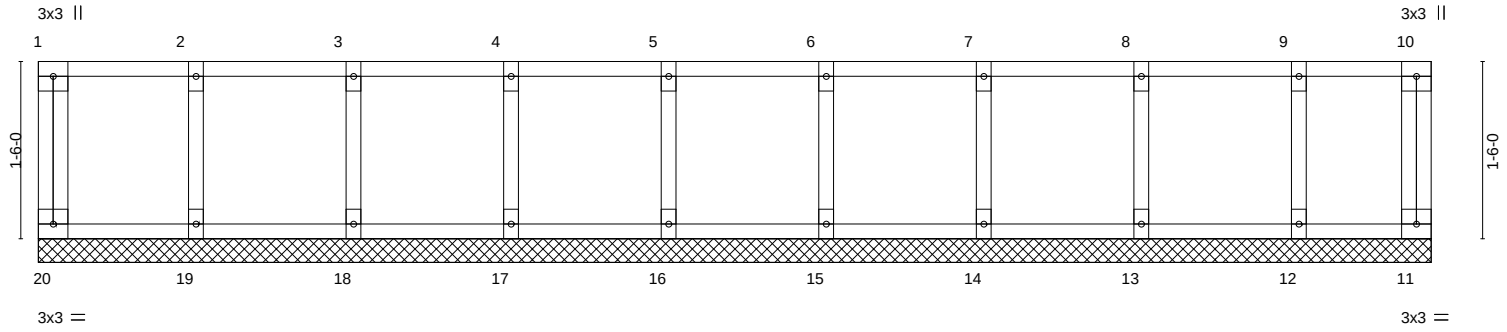

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-9-7
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-7

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-9-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW6	GABLE	2	1	I49385601
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:13 2021 Page 1
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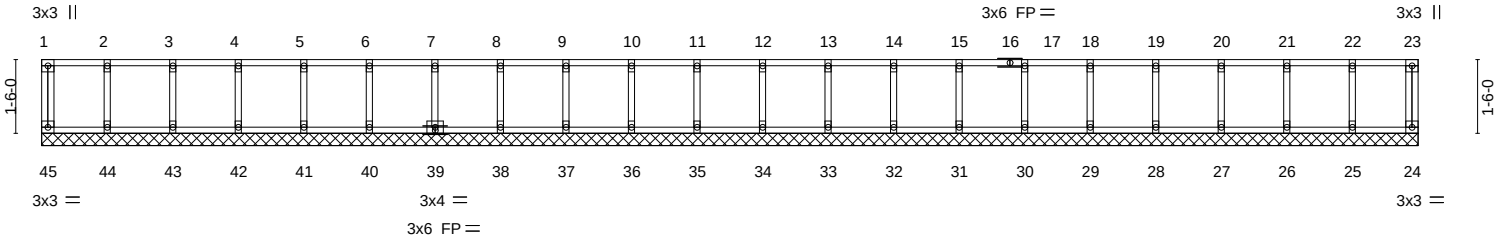

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-1
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-1

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-0-1.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 45, 24, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW7	GABLE	1	1	I49385602
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:13 2021 Page 1
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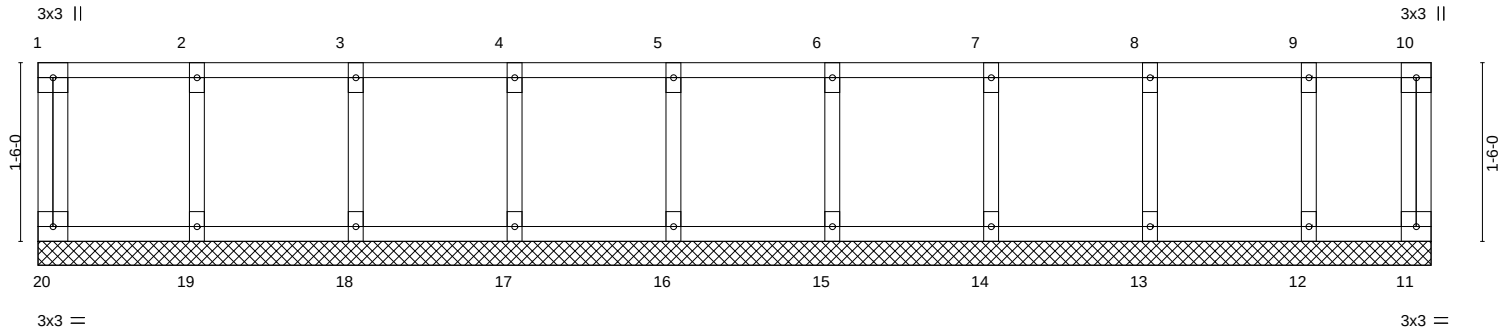

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-5
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-5

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-5.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385603
PRYOR-F2B	KW8	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:14 2021 Page 1
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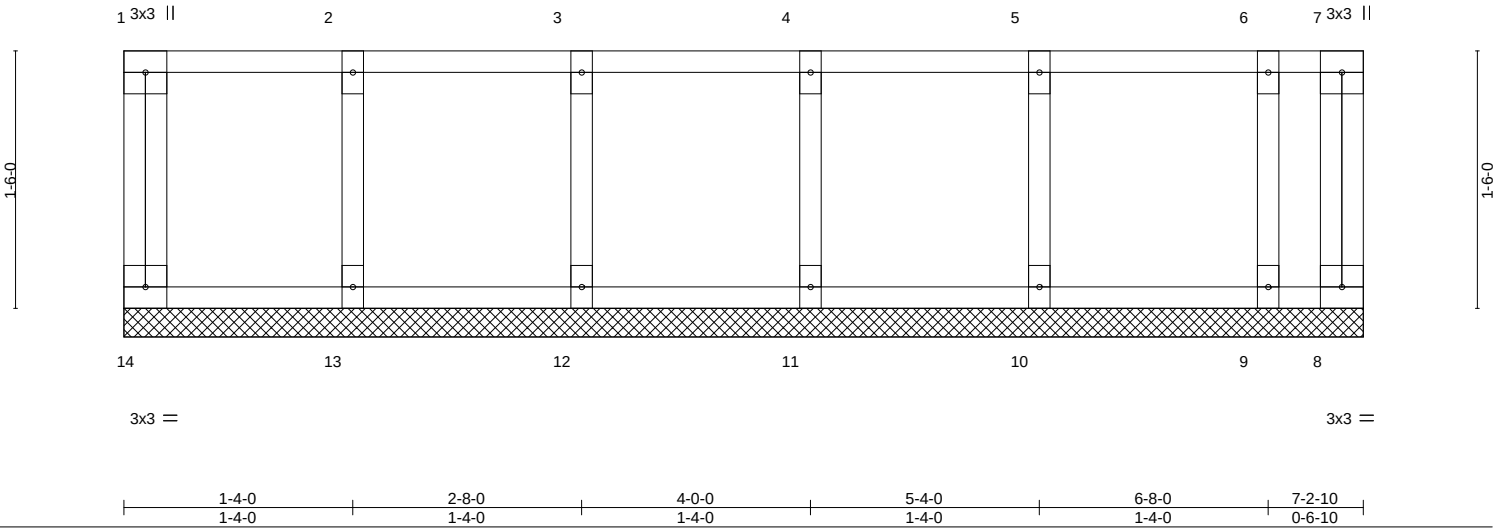

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW9	GABLE	1	1	I49385604
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:14 2021 Page 1
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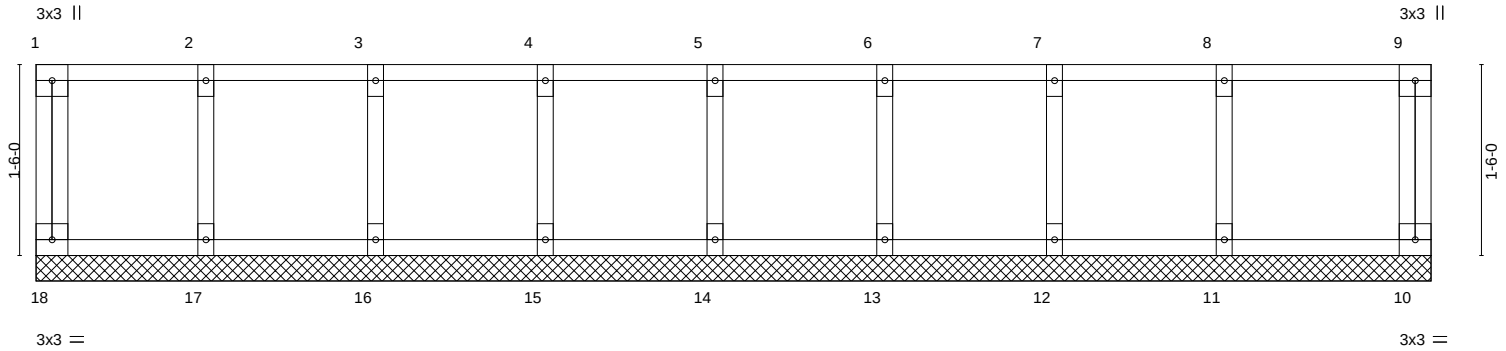

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW10	GABLE	1	1	I49385605
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:08 2021 Page 1
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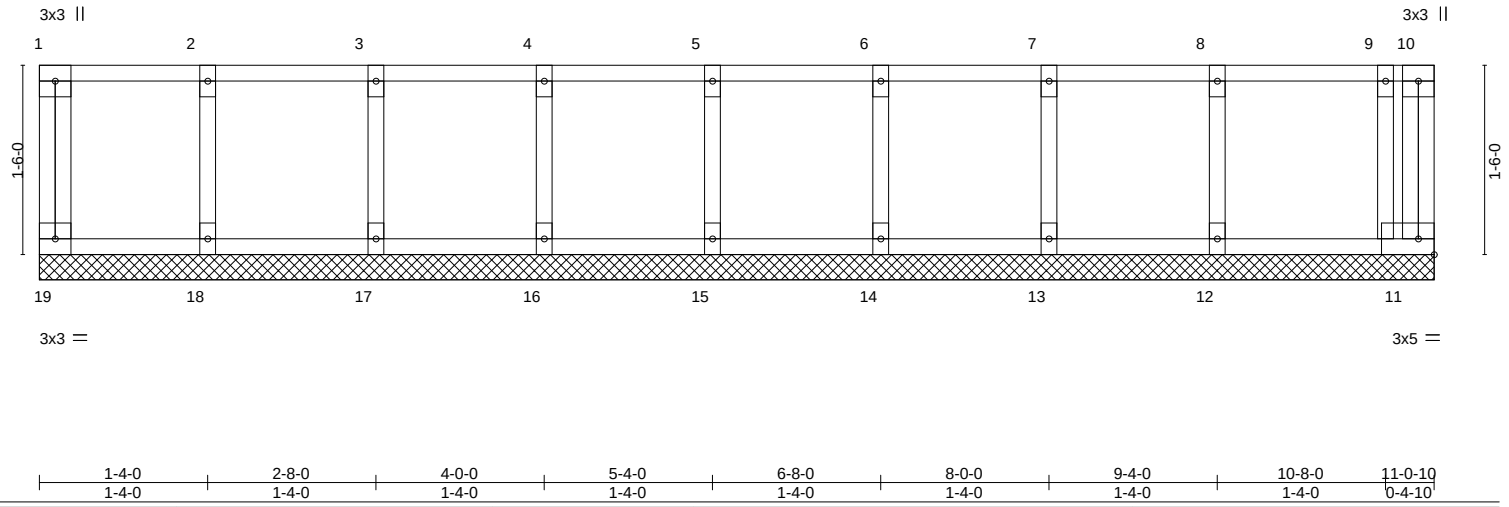

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-0-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL) I49385606
PRYOR-F2B	KW11	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1?aBFuDIjGWXOeV5?cFRoV1XRidP0tURtzXayly6iwW

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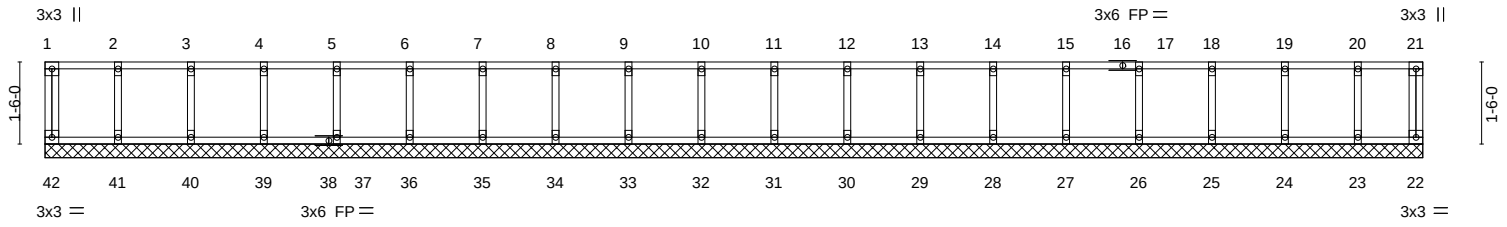

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW12	GABLE	1	1	I49385607
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:09 2021 Page 1
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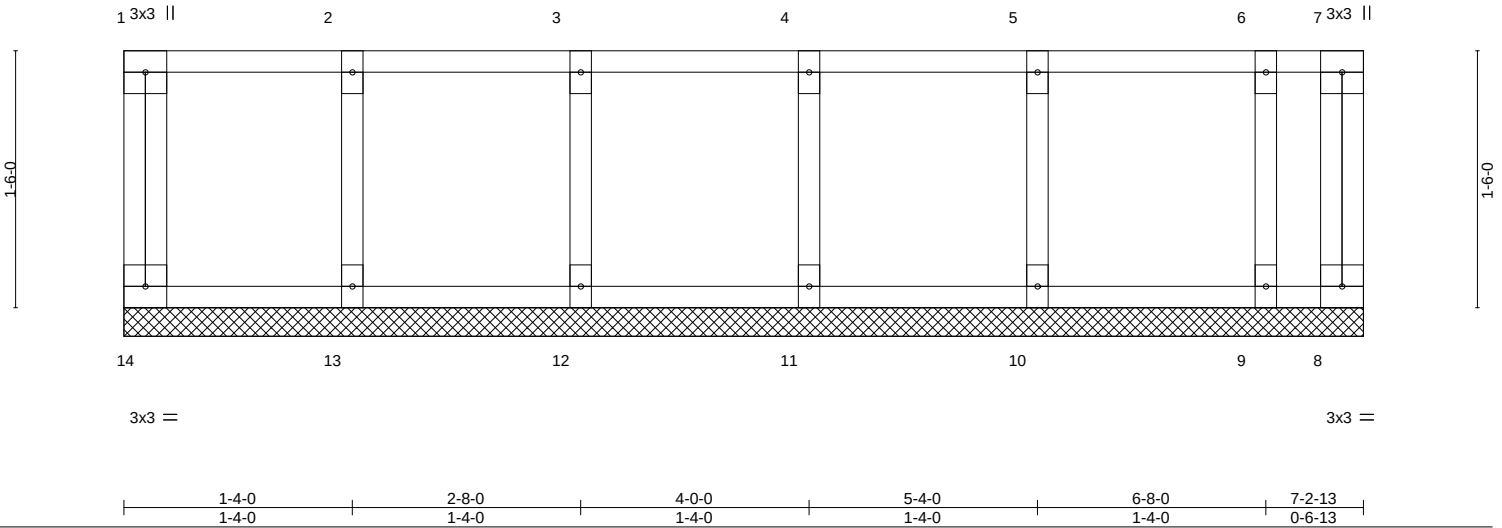

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-13.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 22,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 2ND LEVEL)
PRYOR-F2B	KW13	GABLE	1	1	I49385608
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 21 14:43:10 2021 Page 1
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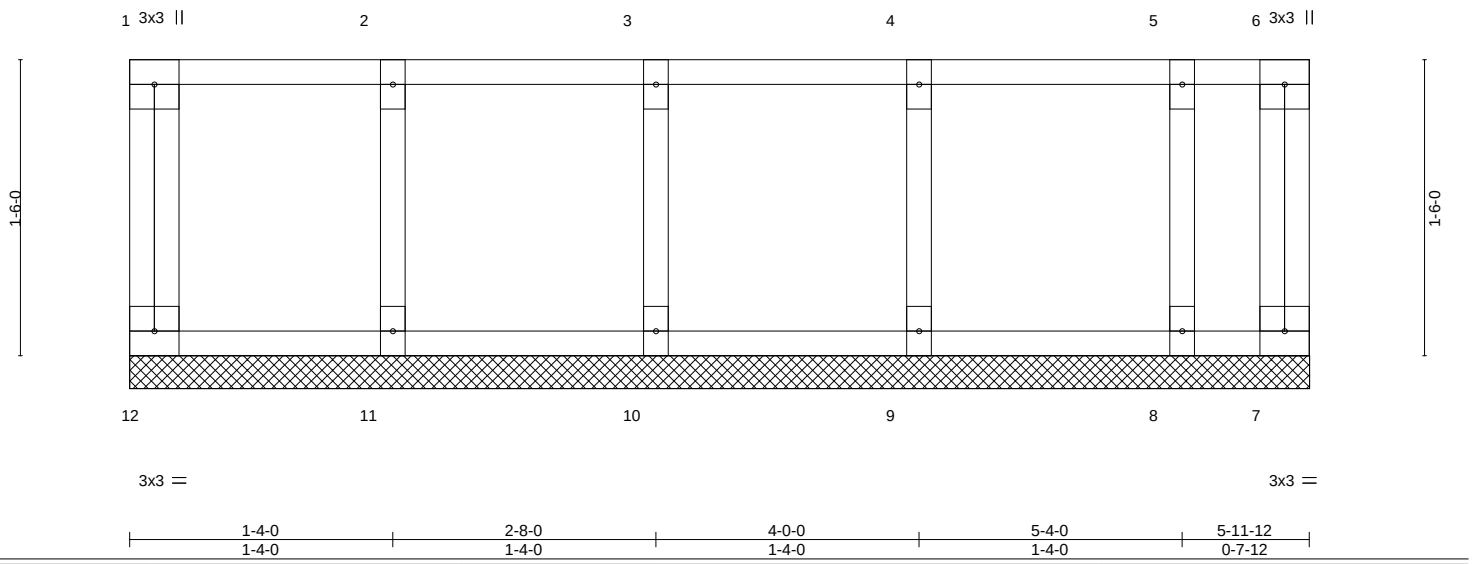

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 33 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
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December 22,2021

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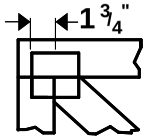
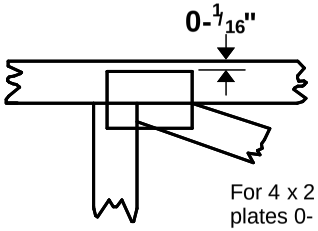
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

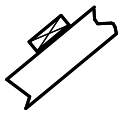
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

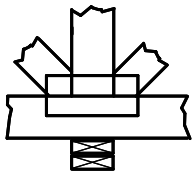
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

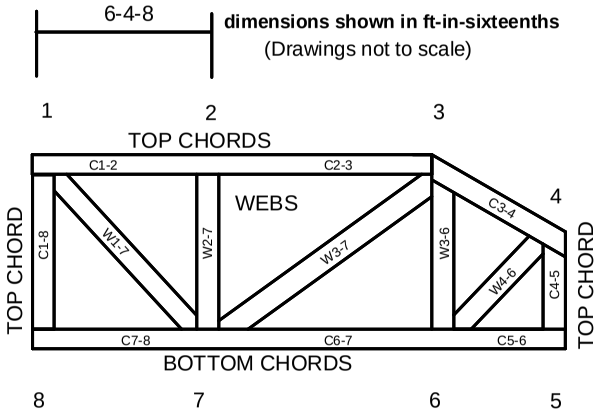


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area B Level 2

Building 2 Area C Level 2

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Wayne E. Davis, P.E.
Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: December 27, 2021

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
2nd floor trusses	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

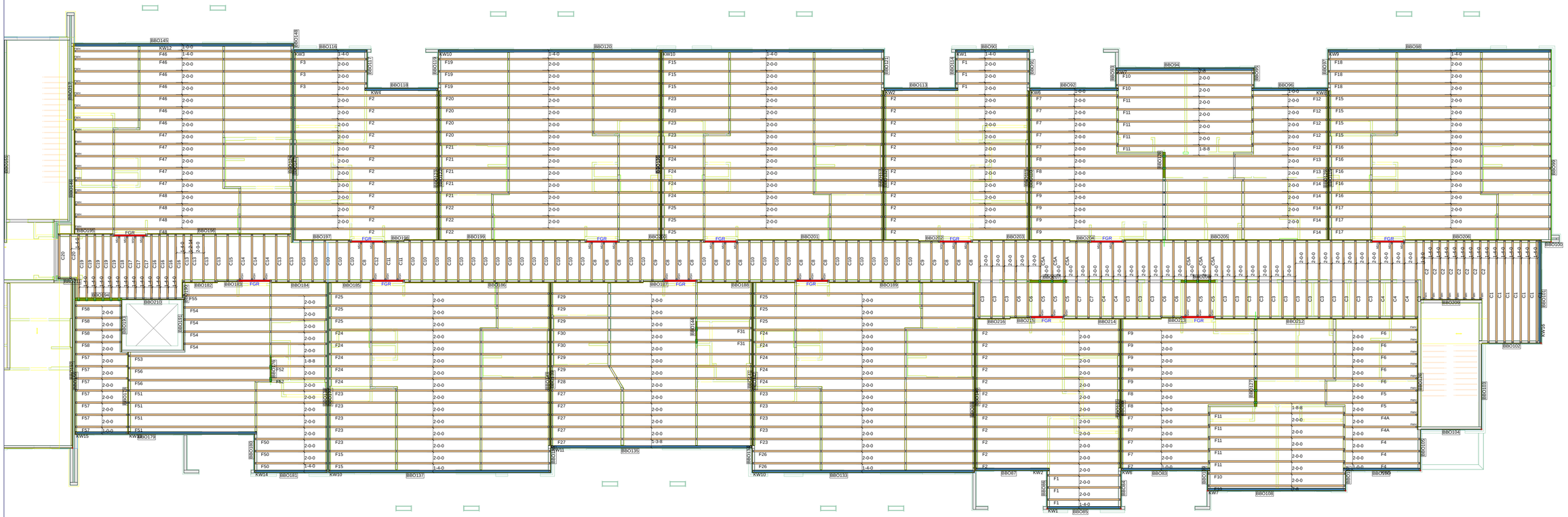
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F2C



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area C
2nd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 1/20/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☑ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE 12/27/2021 BY cb

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

TRUSS LAYOUT

Scale: 1/8" = 1'-0

Building 2 Area C Level 2

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 12/27/2021 *BY:* cb

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F2C
WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49293150 thru I49293231

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 1/20/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

December 16,2021

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C1	Floor	7	1	I49293150
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-w_suSVe9PDqlZmcdiLmH?sgfM8LNVHBnkRbH0oy8eOB

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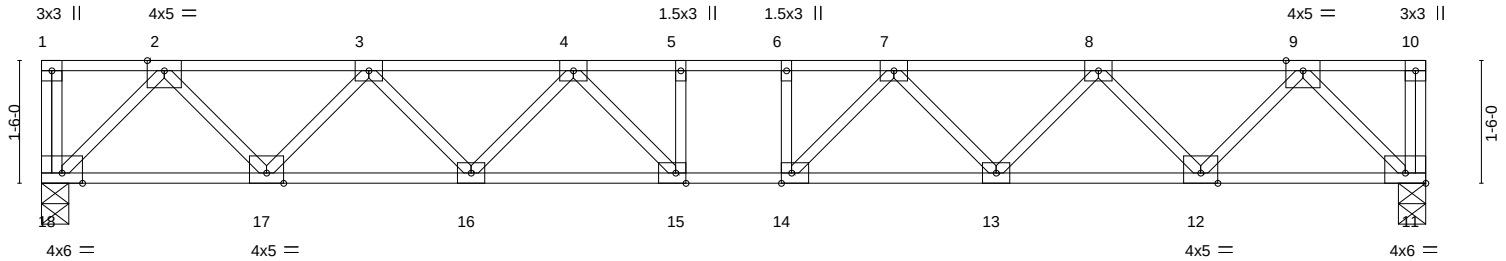

16-11-0
16-11-0

Plate Offsets (X,Y)-- [11:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.24	14-15	>830	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.30	14-15	>665	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 93 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 11=0-4-0
Max Grav 18=1389(LC 1), 11=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2196/0, 3-4=-3542/0, 4-5=-4183/0, 5-6=-4183/0, 6-7=-4183/0, 7-8=-3542/0, 8-9=-2196/0
BOT CHORD 17-18=0/1314, 16-17=0/3062, 15-16=0/4007, 14-15=0/4183, 13-14=0/4007, 12-13=0/3062, 11-12=0/1314
WEBS 2-18=-1858/0, 2-17=0/1312, 3-17=-1288/0, 3-16=0/714, 4-16=-691/0, 4-15=-224/667, 5-15=-337/40, 9-11=-1858/0, 9-12=0/1312, 8-12=-1288/0, 8-13=0/714, 7-13=-691/0, 7-14=-224/667, 6-14=-337/40

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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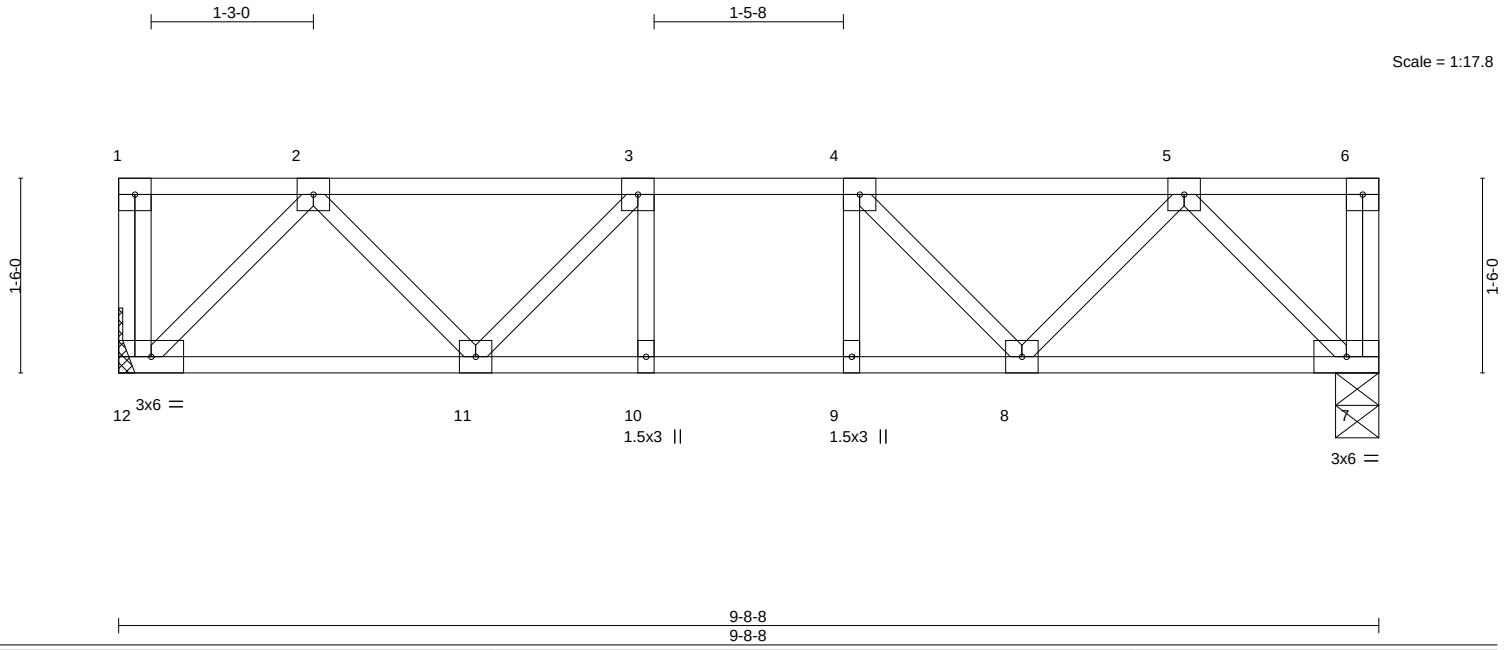
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C2	Floor	8	1	I49293151
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hotLh2xqWu_C3c0Rg6j8V8DzODxhshHTUq96Ory8eNo



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-4-0
Max Grav 12=788(LC 1), 7=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1042/0, 3-4=-1360/0, 4-5=-1042/0
BOT CHORD	11-12=0/725, 10-11=0/1360, 9-10=0/1360, 8-9=0/1360, 7-8=0/725
WEBS	2-12=-1025/0, 2-11=0/472, 3-11=-500/0, 5-7=-1025/0, 5-8=0/472, 4-8=-500/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C3	FLOOR	20	1	I49293152
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dA?56kz52WEwIwApoWlcbZIKO1gBKZImx8eDSjy8eNm

1-3-0 0-5-12 1-1-8

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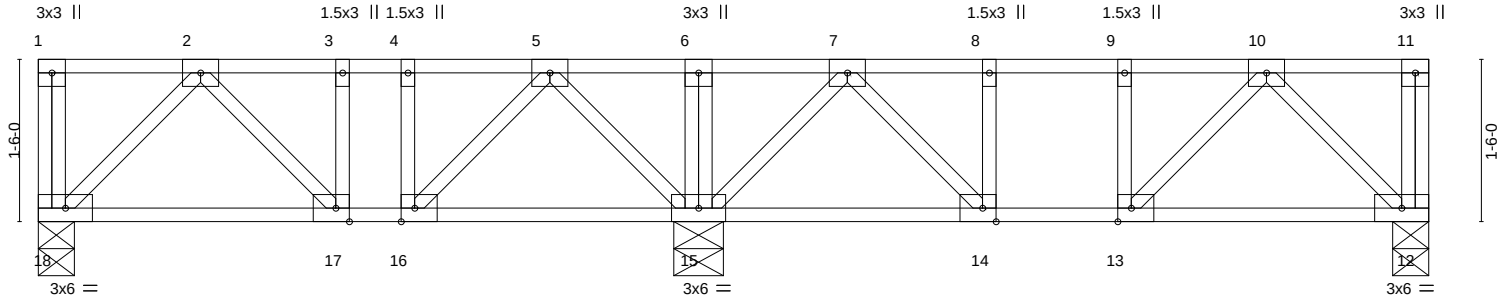

6-1-4 12-10-4
6-1-4 6-9-0

Plate Offsets (X,Y)-- [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=895(LC 10), 12=942(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-979/0, 3-4=-979/0, 4-5=-979/0, 5-6=-20/612, 6-7=-20/612, 7-8=-1056/0, 8-9=-1056/0, 9-10=-1056/0
BOT CHORD 17-18=0/725, 16-17=0/979, 15-16=-88/715, 14-15=-36/619, 13-14=0/1056, 12-13=0/769
WEBS 6-15=-432/0, 2-18=-1026/0, 2-17=-27/367, 5-15=-1164/0, 5-16=0/639, 4-16=-398/0, 7-15=-1214/0, 7-14=0/715, 10-12=-1088/0, 10-13=0/416, 9-13=-302/0, 8-14=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 16,2021

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Chesterfield, MO 63017

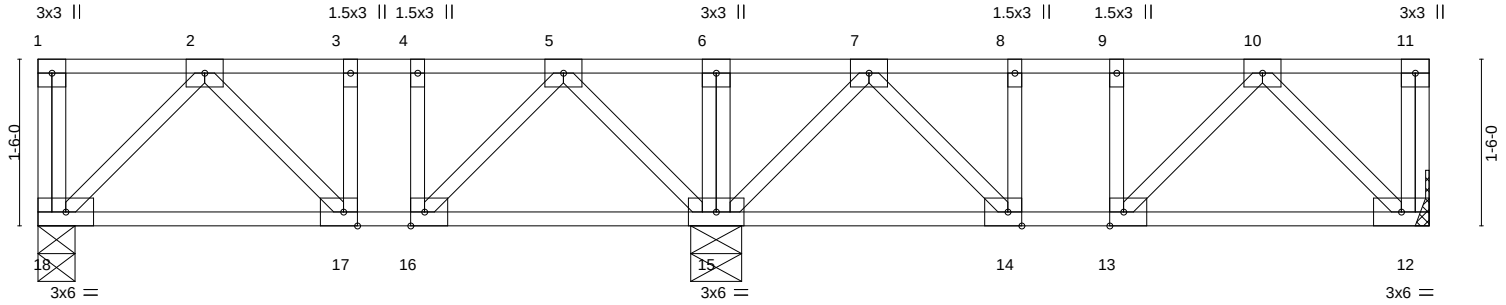
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C4	Floor	5	1	I49293153
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5NZTK4_jppMnw4l?LEGr7mrWzR1S31_vAoNm?Ay8eNl

1-3-0 0-5-12 0-9-8

Scale = 1:20.7



6-1-4 12-6-4
6-1-4 6-5-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=Mechanical, 15=0-5-8
Max Grav 18=864(LC 10), 12=885(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-911/0, 3-4=-911/0, 4-5=-911/0, 5-6=0/574, 6-7=0/574, 7-8=-942/0, 8-9=-942/0, 9-10=-942/0
BOT CHORD 17-18=0/694, 16-17=0/911, 15-16=-106/611, 14-15=-78/558, 13-14=0/942, 12-13=0/714
WEBS 6-15=-429/0, 2-18=-982/0, 2-17=-36/315, 5-15=-1153/0, 5-16=0/623, 4-16=-390/0, 7-15=-1174/0, 7-14=0/655, 8-14=-419/0, 10-12=-1010/0, 10-13=-18/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293154
PRYOR-F2C	C5	Floor	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:11 2021 Page 1
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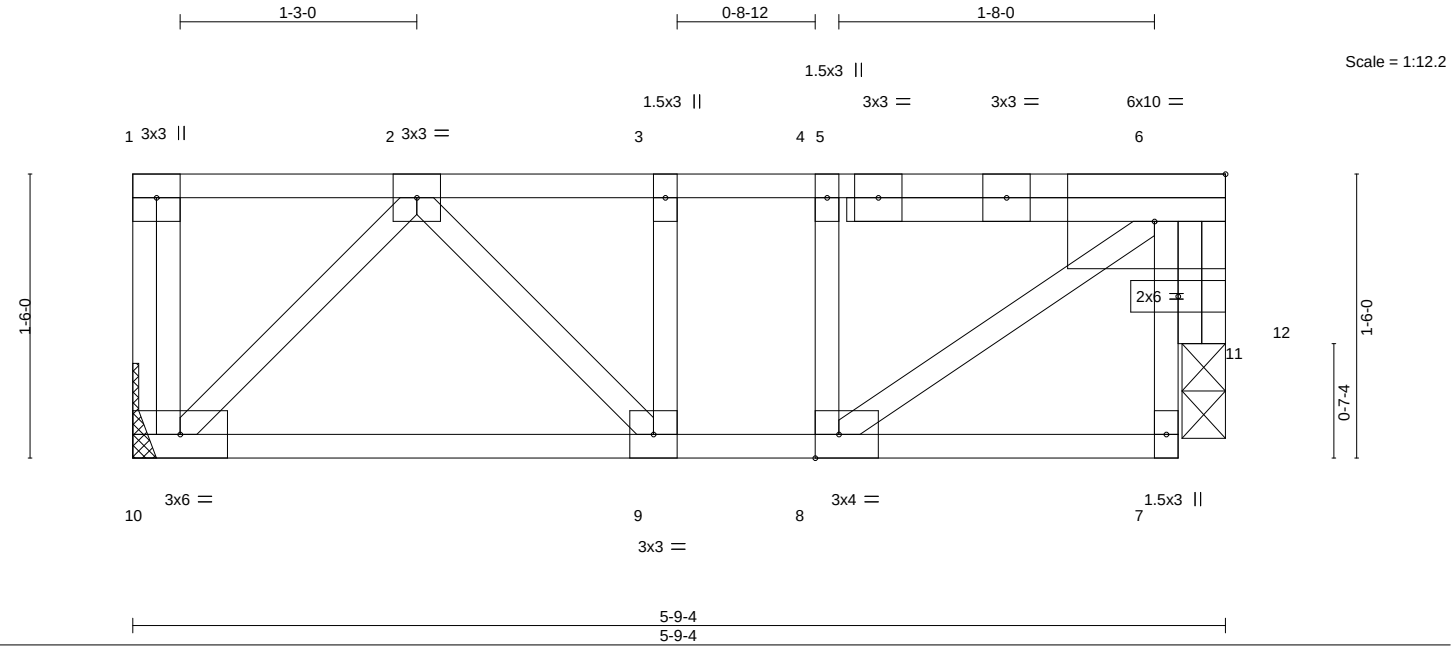

Plate Offsets (X,Y)-- [6:0-4-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-2-12
Max Grav 10=821(LC 1), 12=779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-806/0, 3-4=-806/0, 4-6=-813/0
BOT CHORD	9-10=0/651, 8-9=0/806
WEBS	2-10=-920/0, 2-9=0/335, 6-8=0/879, 4-8=-466/0, 6-12=-800/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C5A	Floor	6	1	I49293155
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:12 2021 Page 1
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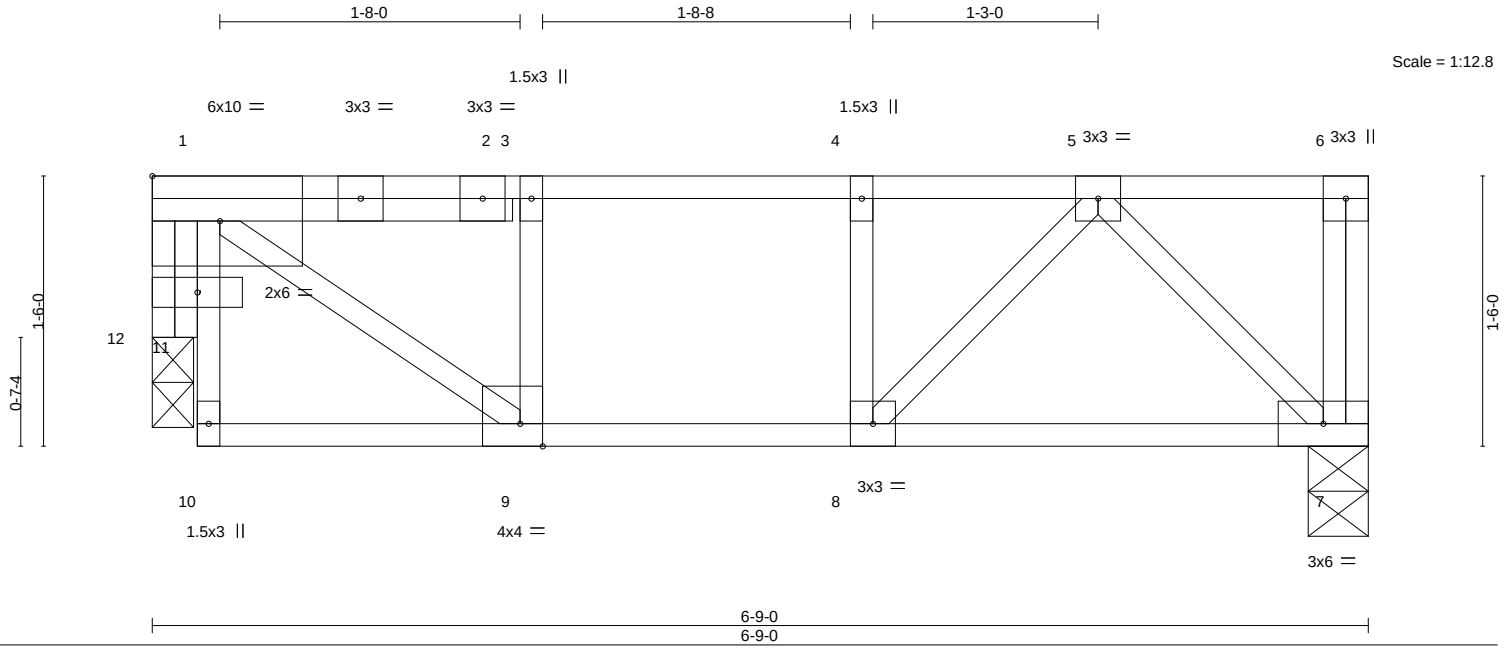

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.08	7-8	>996	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.09	7-8	>852	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 12=0-2-12
Max Grav 7=968(LC 1), 12=926(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1091/0, 3-4=-1086/0, 4-5=-1086/0
BOT CHORD	8-9=0/1086, 7-8=0/789
WEBS	5-7=-1116/0, 5-8=0/565, 4-8=-360/0, 1-9=0/1227, 3-9=-651/0, 1-12=-945/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C6	Floor	4	1	I49293156
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:13 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WyEcy60b6kkLnXTa1MqZIPT?Ve29GNMLsmcQcVy8eNi

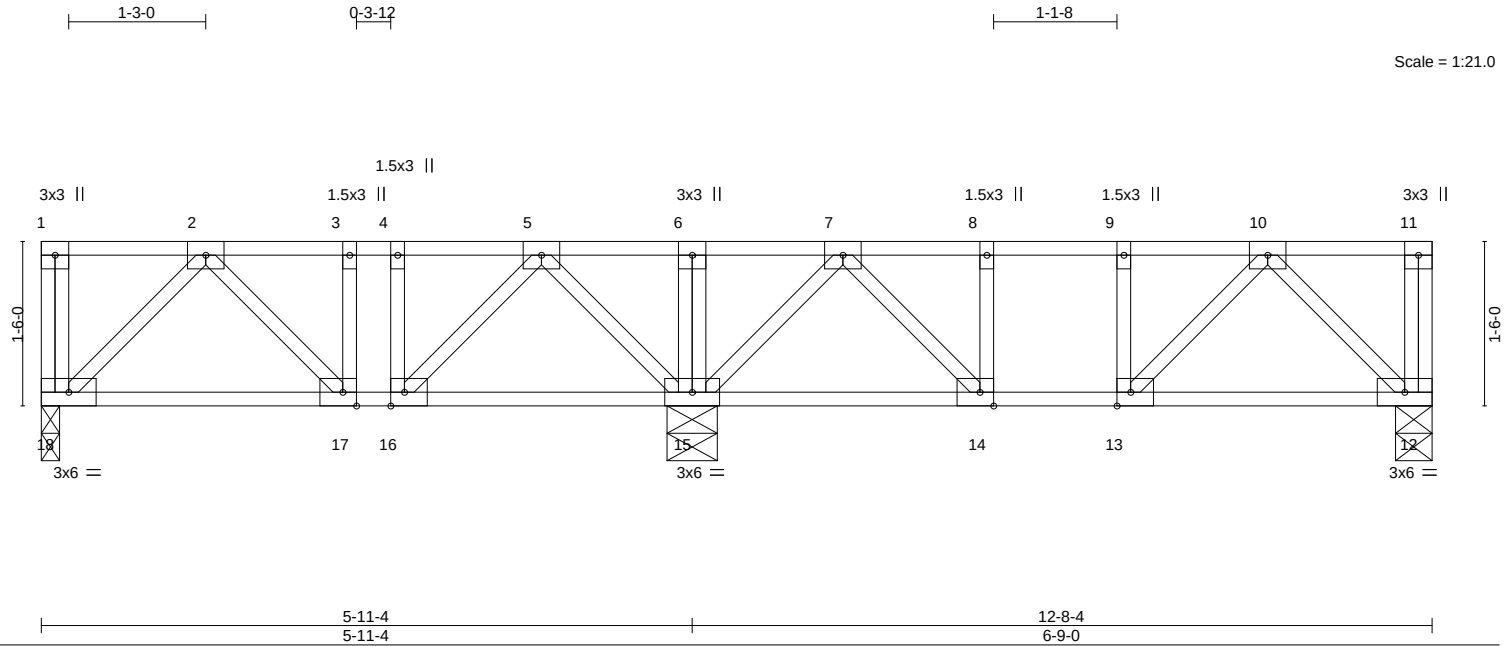

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 12=0-4-0, 15=0-5-8
Max Grav 18=874(LC 10), 12=938(LC 4), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-938/0, 3-4=-938/0, 4-5=-938/0, 5-6=-35/634, 6-7=-35/634, 7-8=-1044/0, 8-9=-1044/0, 9-10=-1044/0
BOT CHORD 17-18=0/704, 16-17=0/938, 15-16=-99/701, 14-15=-34/602, 13-14=0/1044, 12-13=0/764
WEBS 6-15=-431/0, 2-18=-995/0, 2-17=-34/339, 5-15=-1142/0, 5-16=0/607, 4-16=-377/0, 7-15=-1206/0, 7-14=0/707, 8-14=-458/0, 10-12=-1081/0, 10-13=0/405, 9-13=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C7	Floor	2	1	I49293157
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:14 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_8o_9R1Dt2sCOh2na4LoIc?Bn2Nq?qnV5QL_8xy8eNh

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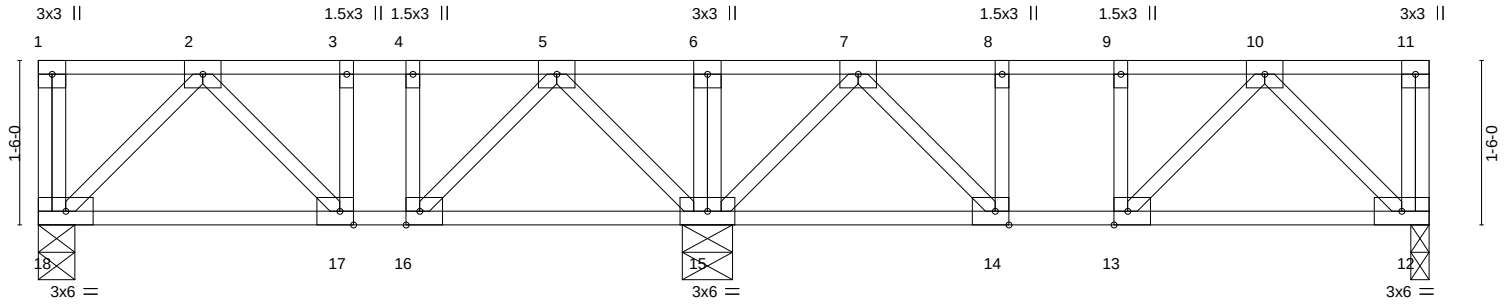

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-2-0, 15=0-5-8
Max Grav 18=880(LC 10), 12=914(LC 7), 15=2058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-946/0, 3-4=-946/0, 4-5=-946/0, 5-6=0/595, 6-7=0/595, 7-8=-999/0, 8-9=-999/0, 9-10=-999/0
BOT CHORD 17-18=0/710, 16-17=0/946, 15-16=-97/665, 14-15=-57/588, 13-14=0/999, 12-13=0/742
WEBS 6-15=-431/0, 2-18=-1005/0, 2-17=-32/342, 5-15=-1159/0, 5-16=0/632, 4-16=-394/0, 7-15=-1194/0, 7-14=0/684, 8-14=-441/0, 10-12=-1049/0, 10-13=-4/372, 9-13=-271/5

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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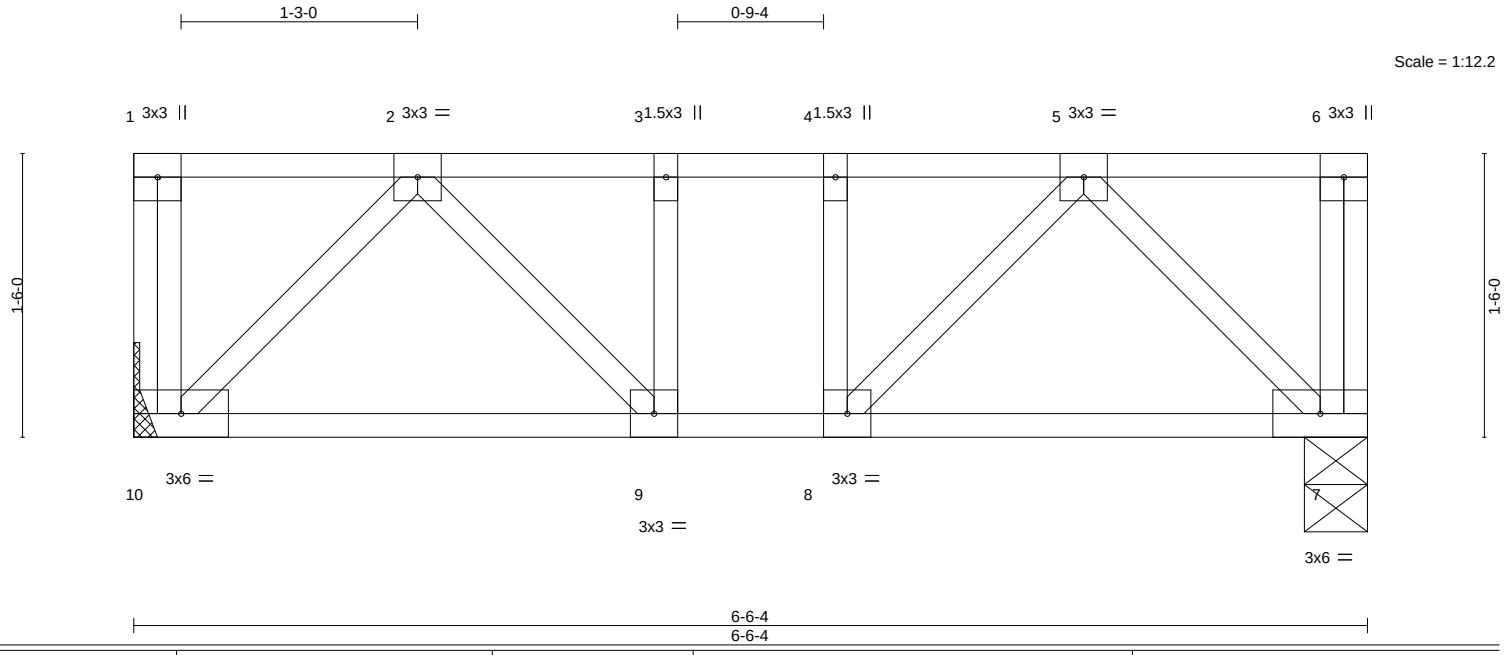
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C8	Floor	16	1	I49293158
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:14 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_8o_9R1Dt2sCOh2na4LoIc?DB2PS?sTV5QL_8xy8eNh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C9	Floor	3	1	I49293159
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:15 2021 Page 1
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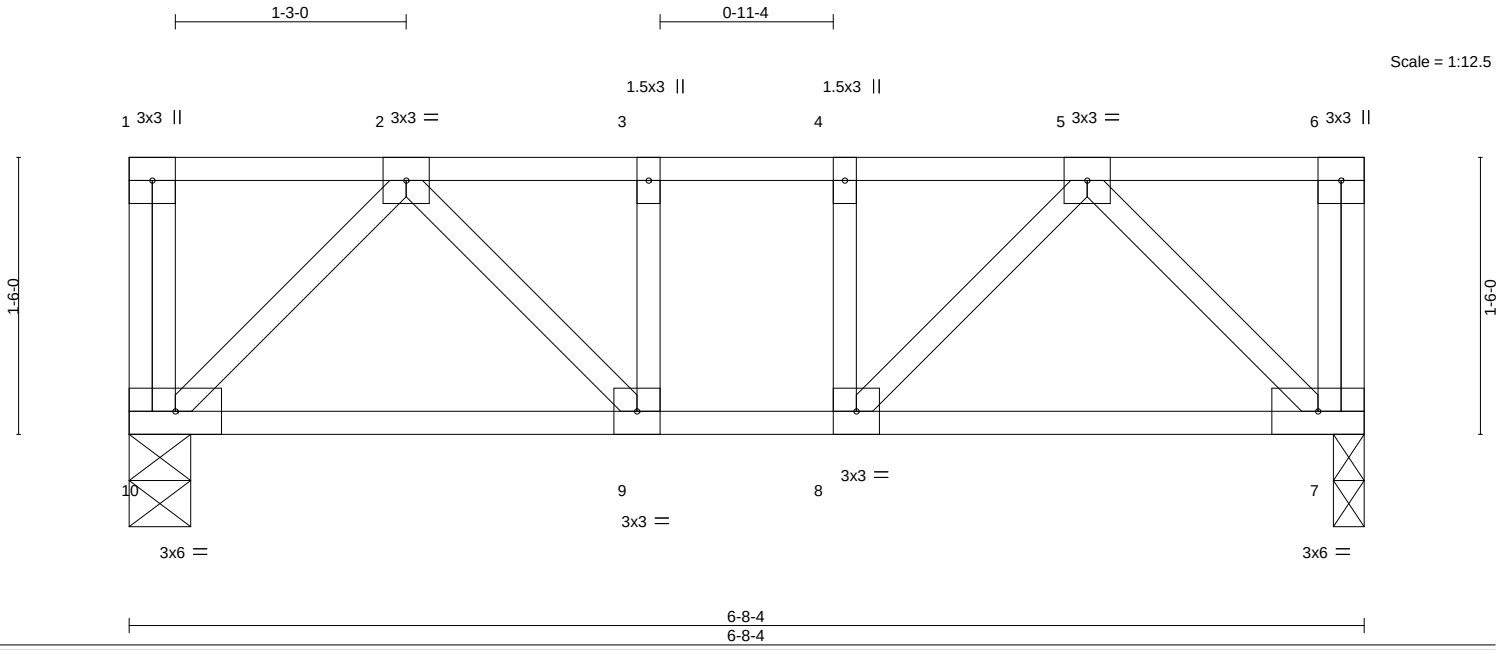

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-2-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/469, 3-9=-267/0, 5-7=-934/0, 5-8=0/469, 4-8=-267/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C10	Floor	34	1	I49293160
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:45 2021 Page 1
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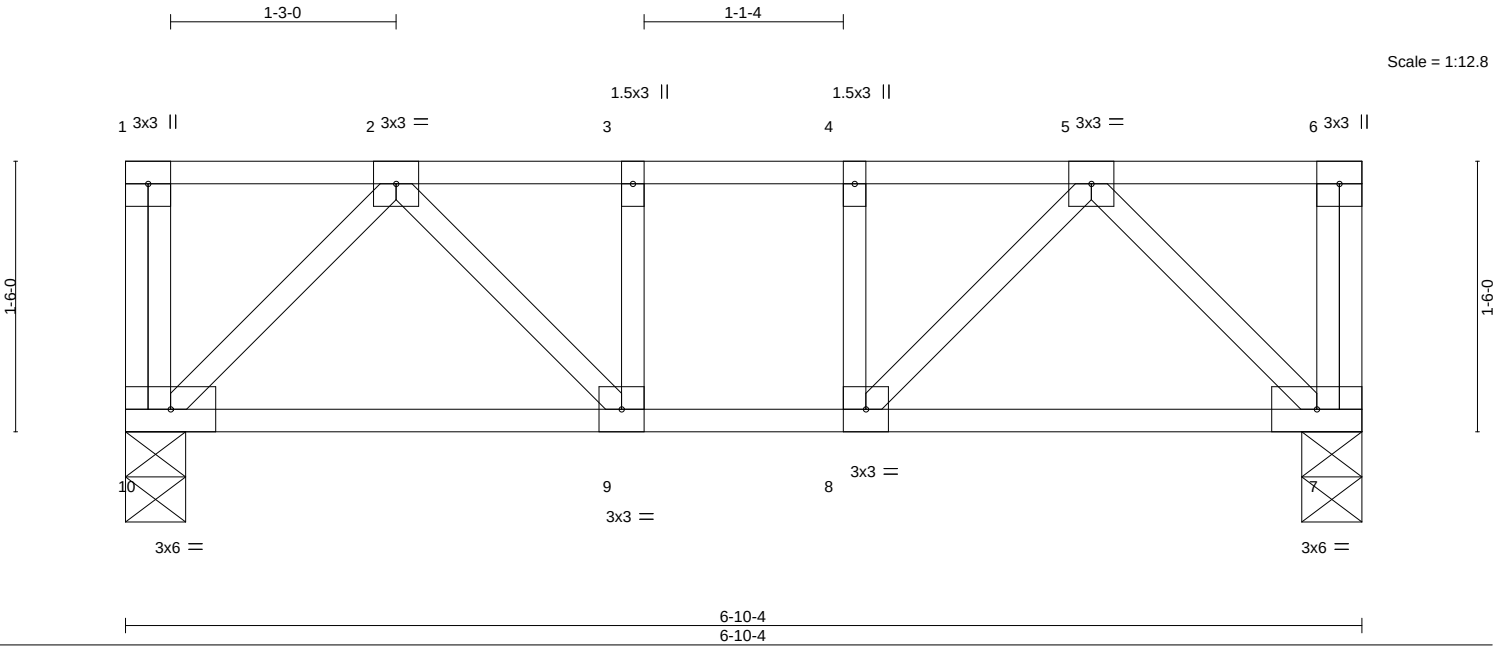

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C11	Floor	2	1	I49293161
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:47 2021 Page 1
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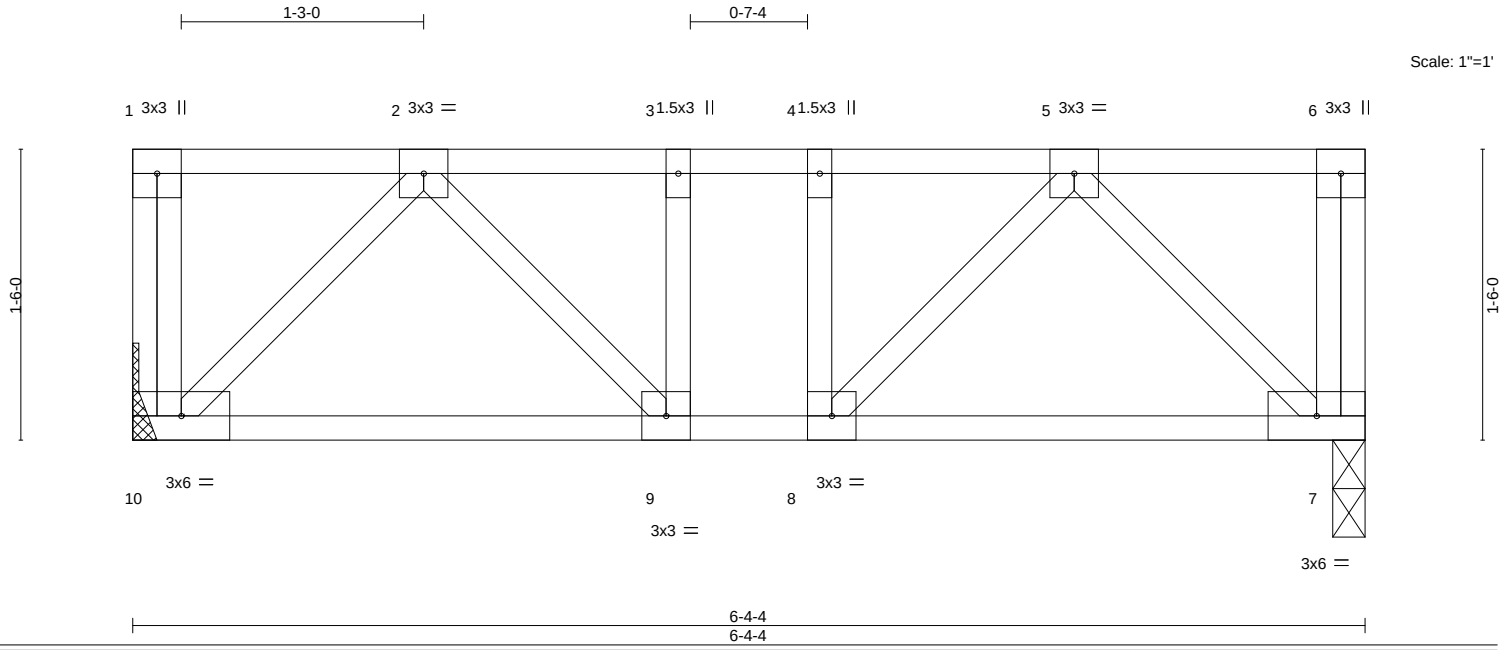


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-2-0
Max Grav 10=763(LC 1), 7=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-849/0, 3-4=-849/0, 4-5=-849/0
BOT CHORD 9-10=0/620, 8-9=0/849, 7-8=0/620
WEBS 2-10=-877/0, 2-9=0/395, 5-7=-877/0, 5-8=0/395

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

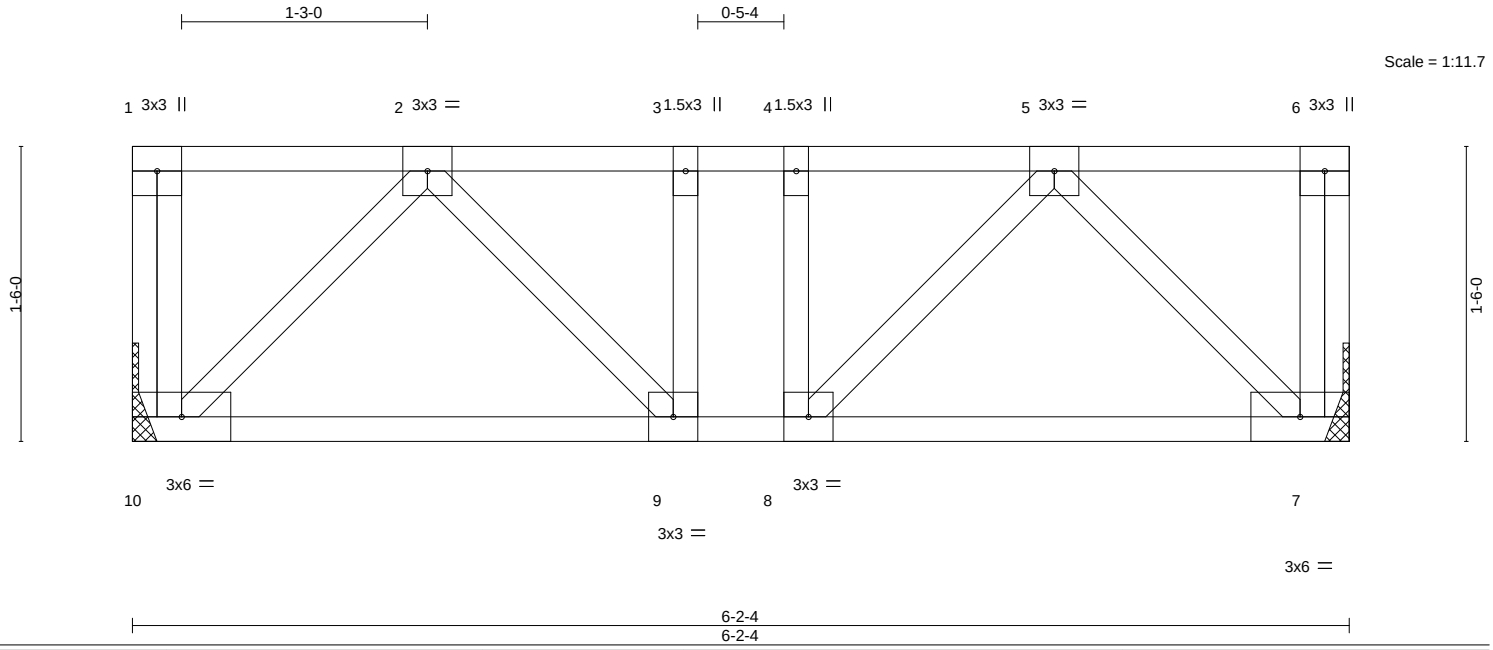
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C12	Floor	1	1	I49293162
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-GxgnVDiIElS1fYUbVvMSiwOc99D2Ae?WtjJ2i?y8eO6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=742(LC 1), 7=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/0, 3-4=-808/0, 4-5=-808/0
BOT CHORD 9-10=0/600, 8-9=0/808, 7-8=0/600
WEBS 2-10=-848/0, 2-9=0/360, 5-7=-848/0, 5-8=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C13	Floor	6	1	I49293163
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:49 2021 Page 1
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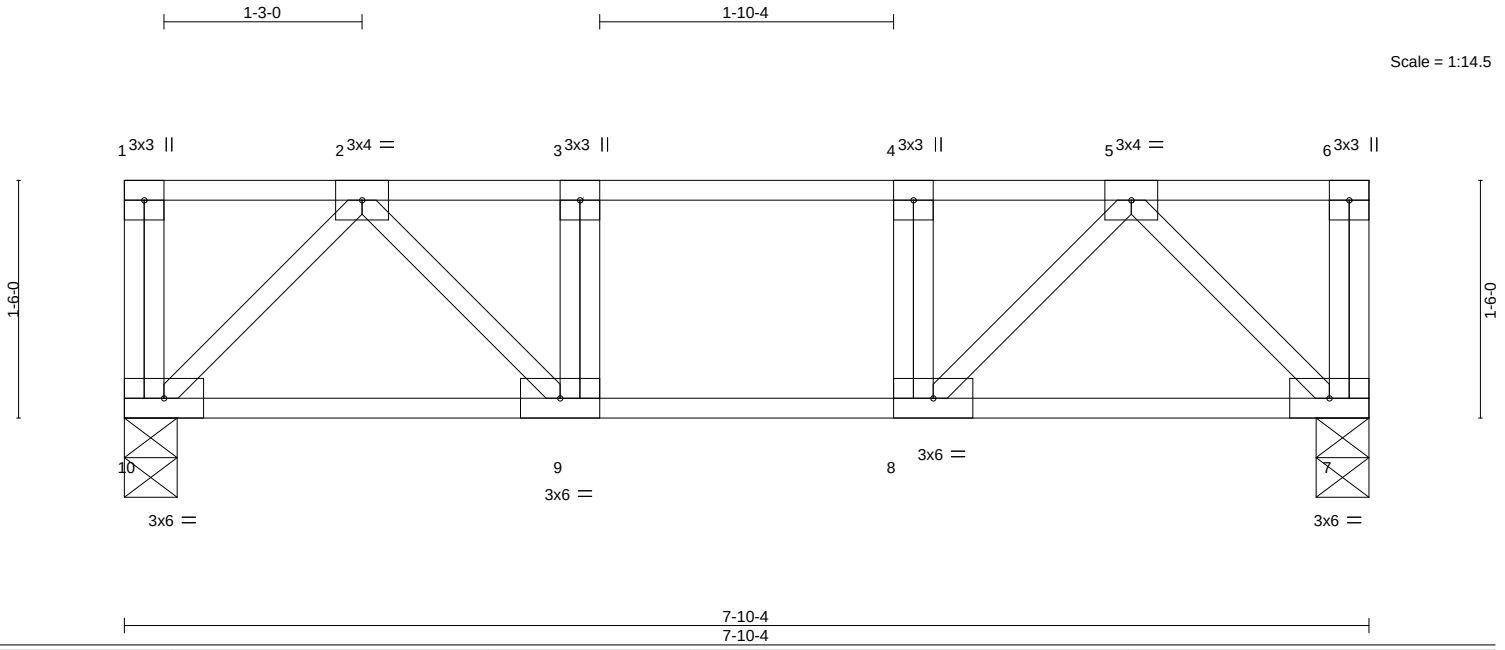

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=951(LC 1), 7=951(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1266/0, 3-4=-1266/0, 4-5=-1266/0
BOT CHORD	9-10=0/799, 8-9=0/1266, 7-8=0/799
WEBS	2-10=-1130/0, 2-9=0/751, 3-9=-450/0, 5-7=-1130/0, 5-8=0/751, 4-8=-450/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C14	Floor	3	1	I49293164
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:14:59 2021 Page 1
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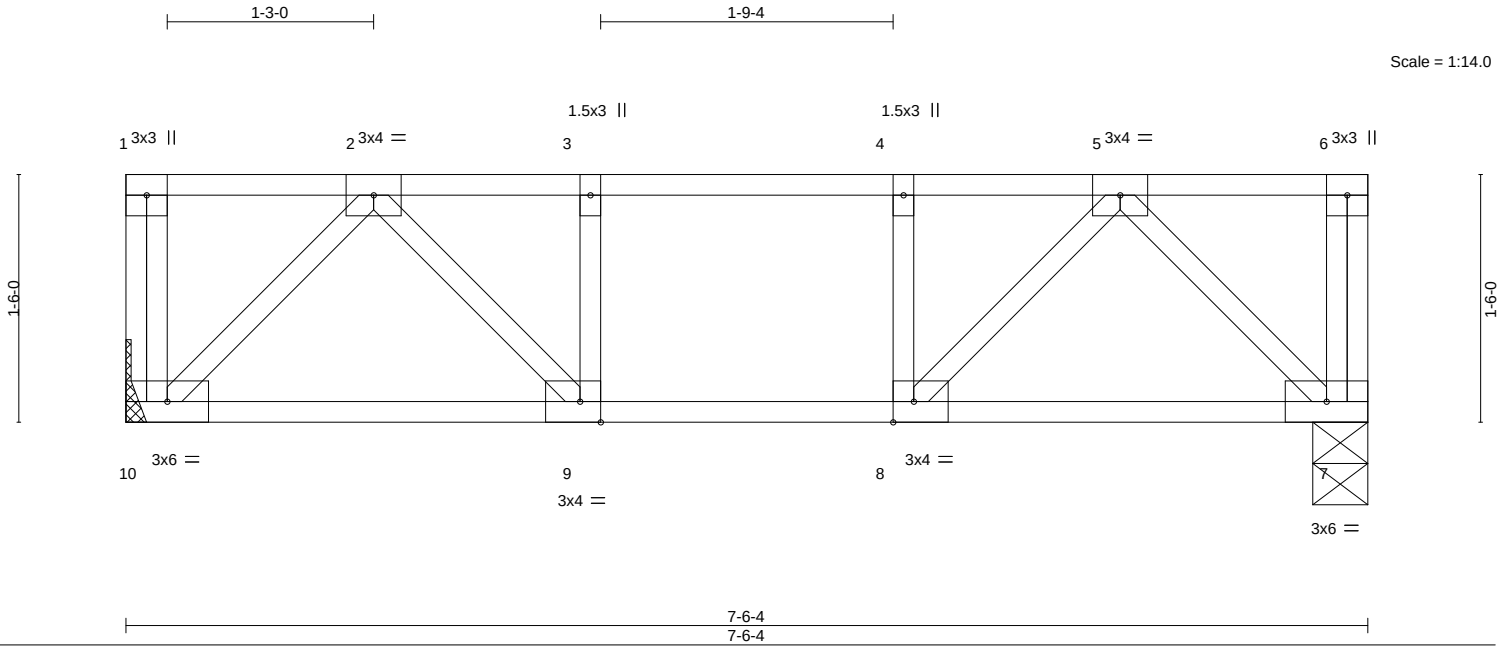

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=909(LC 1), 7=909(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/0, 3-4=-1162/0, 4-5=-1162/0
BOT CHORD 9-10=0/759, 8-9=0/1162, 7-8=0/759
WEBS 2-10=-1073/0, 2-9=0/675, 3-9=-411/0, 5-7=-1073/0, 5-8=0/675, 4-8=-411/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C15	Floor	1	1	I49293165
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:01 2021 Page 1
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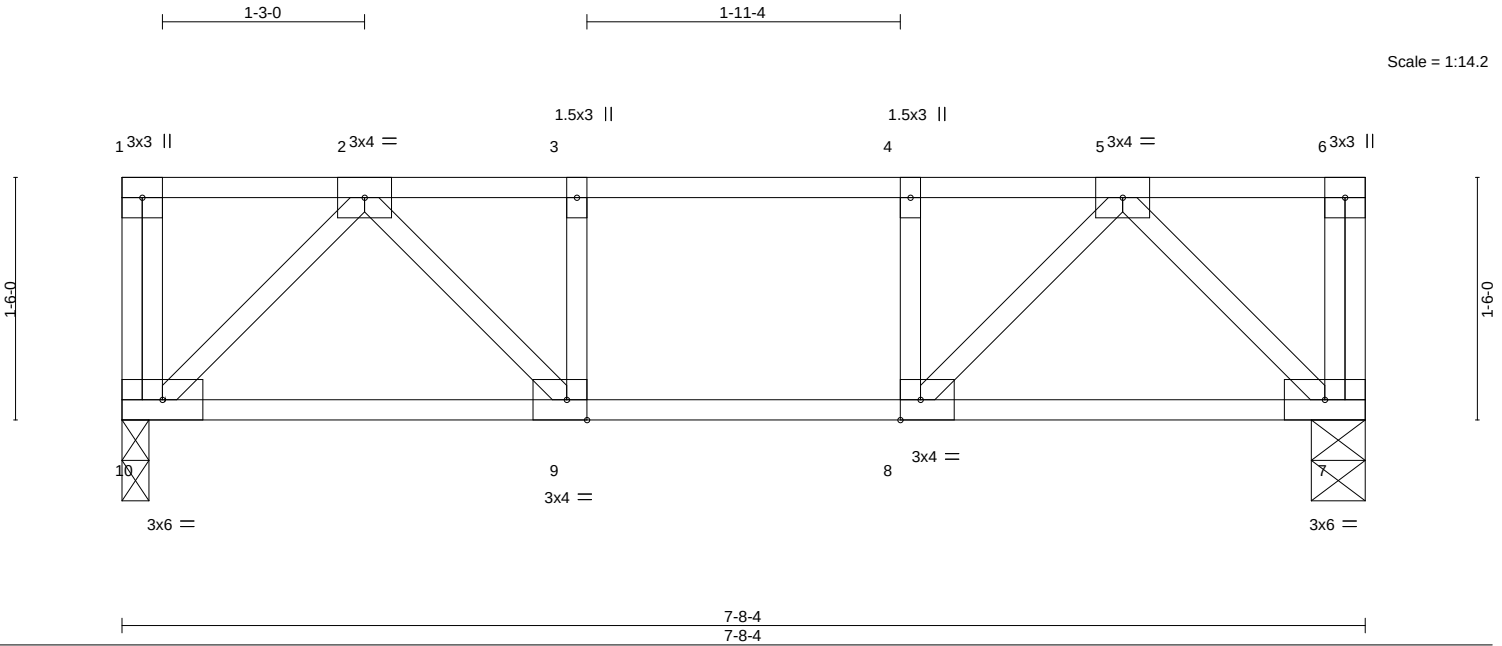

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=930(LC 1), 7=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1210/0, 3-4=-1210/0, 4-5=-1210/0
BOT CHORD 9-10=0/778, 8-9=0/1210, 7-8=0/778
WEBS 2-10=-1100/0, 2-9=0/720, 3-9=-442/0, 5-7=-1100/0, 5-8=0/720, 4-8=-442/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C16	Floor	4	1	I49293166
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:03 2021 Page 1
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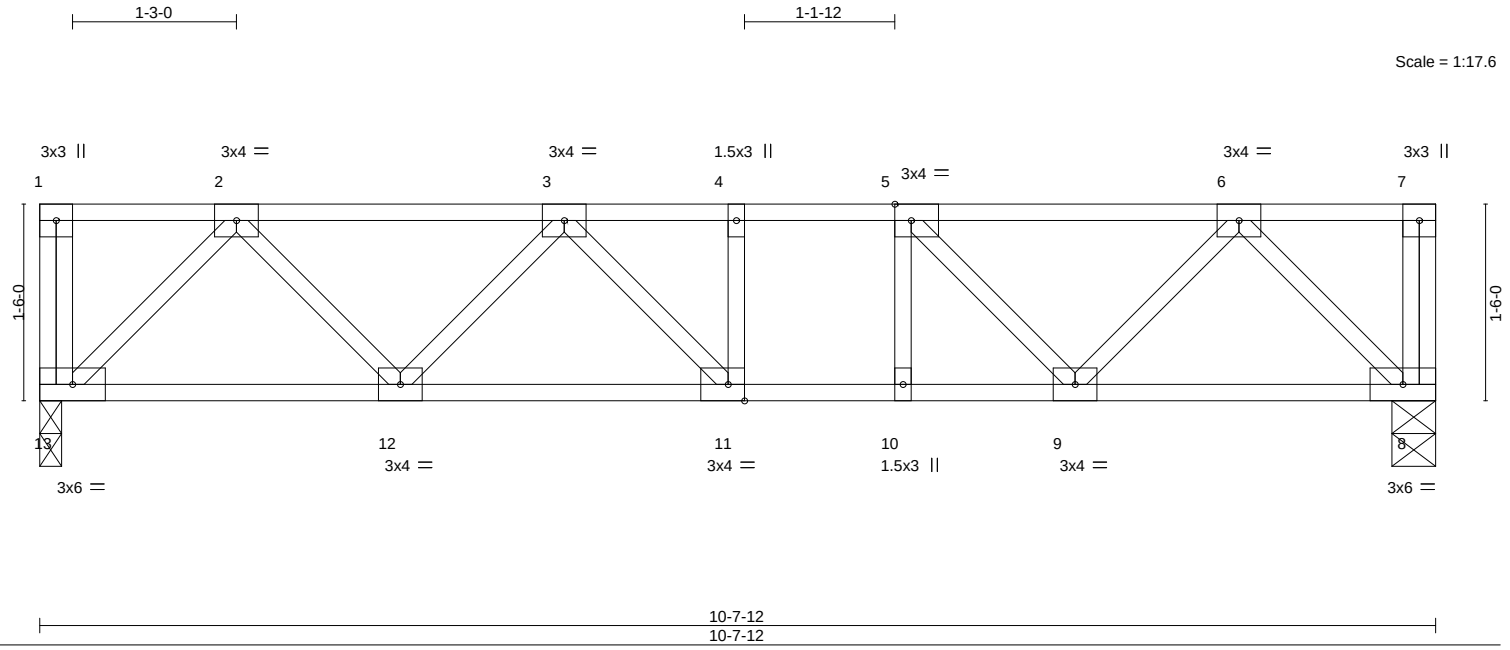

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.08	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=0-4-0
Max Grav 13=866(LC 1), 8=866(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1199/0, 3-4=-1611/0, 4-5=-1611/0, 5-6=-1195/0
BOT CHORD 12-13=0/798, 11-12=0/1576, 10-11=0/1611, 9-10=0/1611, 8-9=0/796
WEBS 2-13=-1129/0, 2-12=0/595, 3-12=-560/0, 6-8=-1126/0, 6-9=0/592, 5-9=-606/0, 3-11=-166/338

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C17	Floor	3	1	I49293167
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:04 2021 Page 1
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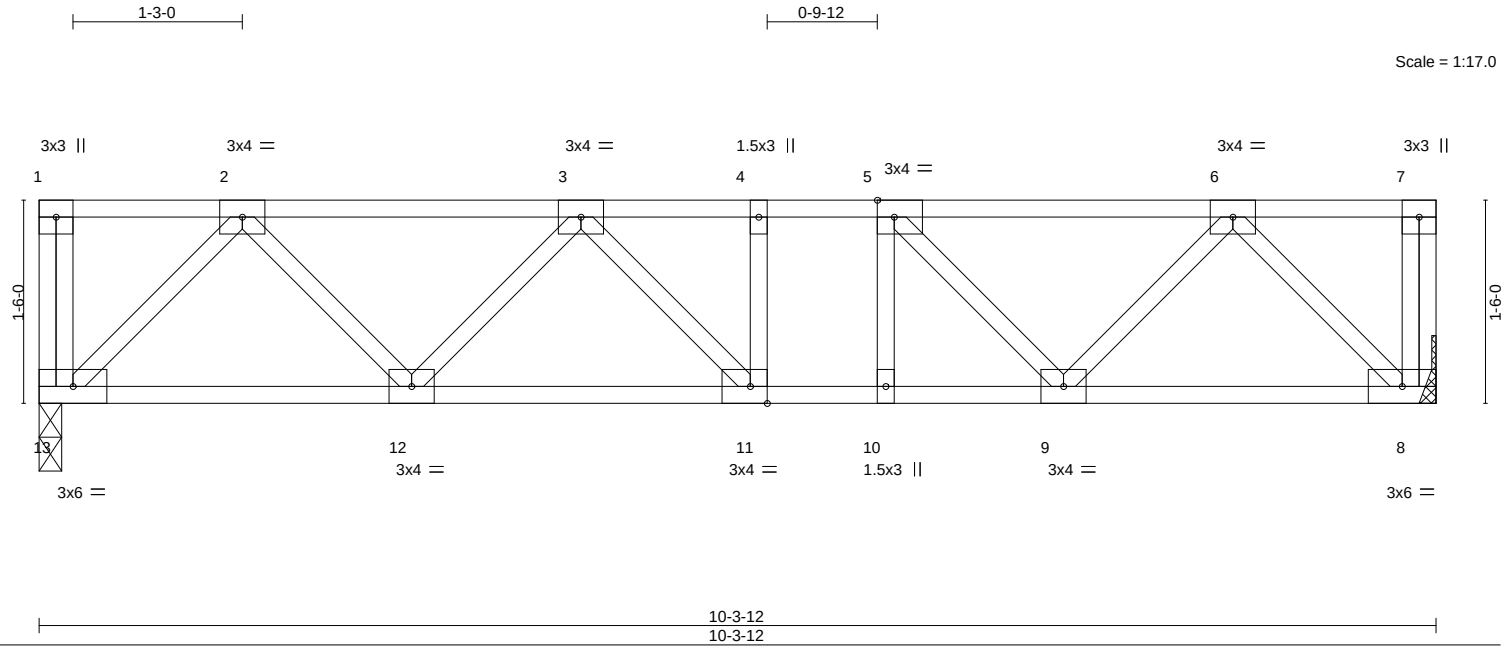

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.06	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=Mechanical
Max Grav 13=839(LC 1), 8=839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1144/0, 3-4=-1516/0, 4-5=-1516/0, 5-6=-1141/0
BOT CHORD 12-13=0/770, 11-12=0/1499, 10-11=0/1516, 9-10=0/1516, 8-9=0/771
WEBS 2-13=-1089/0, 2-12=0/556, 3-12=-527/0, 6-8=-1091/0, 6-9=0/550, 5-9=-543/0, 3-11=-184/295

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C18	Floor	1	1	I49293168
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:05 2021 Page 1
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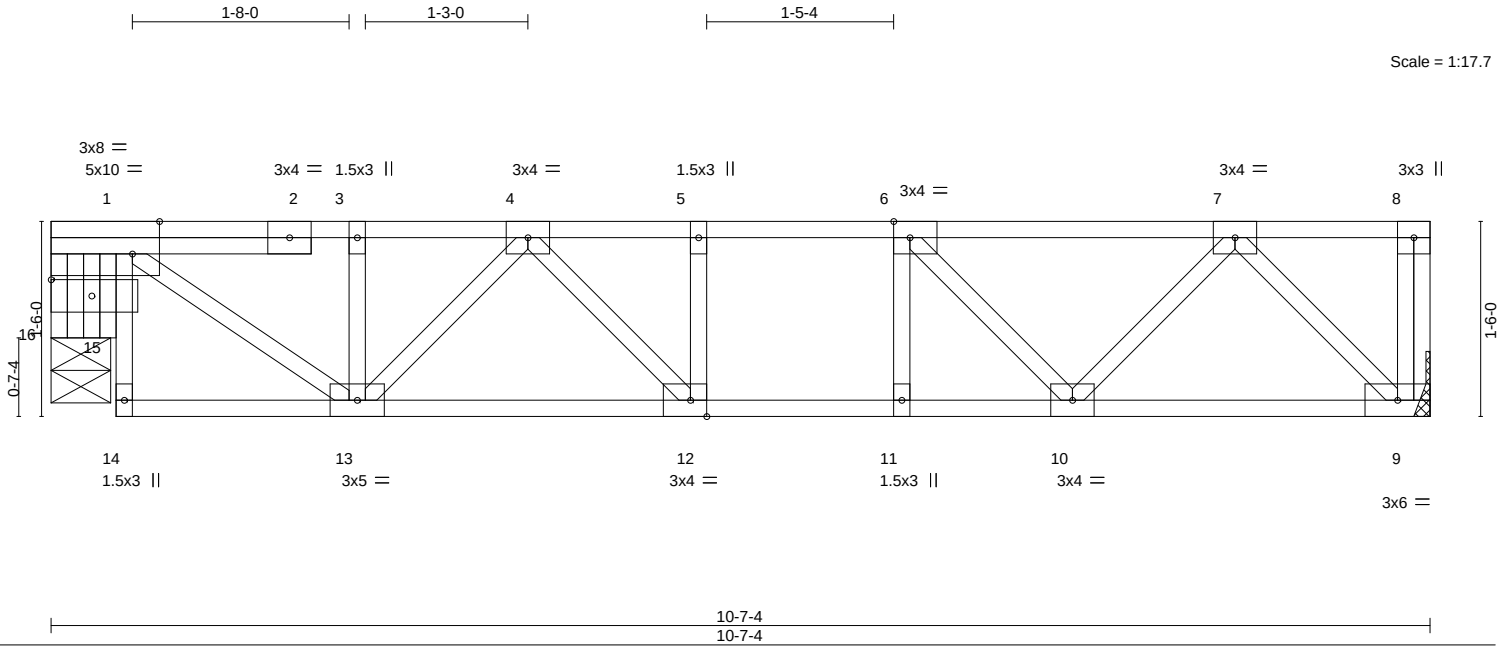

Plate Offsets (X,Y)-- [1:0-2-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [16:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-13: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 16=0-5-8
Max Grav 9=437(LC 1), 16=423(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-513/0, 3-4=-511/0, 4-5=-793/0, 5-6=-793/0, 6-7=-597/0
BOT CHORD	12-13=0/707, 11-12=0/793, 10-11=0/793, 9-10=0/399
WEBS	7-9=-564/0, 7-10=0/295, 6-10=-293/0, 1-13=0/569, 4-13=-284/0, 1-16=-435/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C19	Floor	5	1	I49293169
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:06 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DbJyUixClbsLRSRE6OCvzwgnVqaz7DSJFAPYsOy8eNp

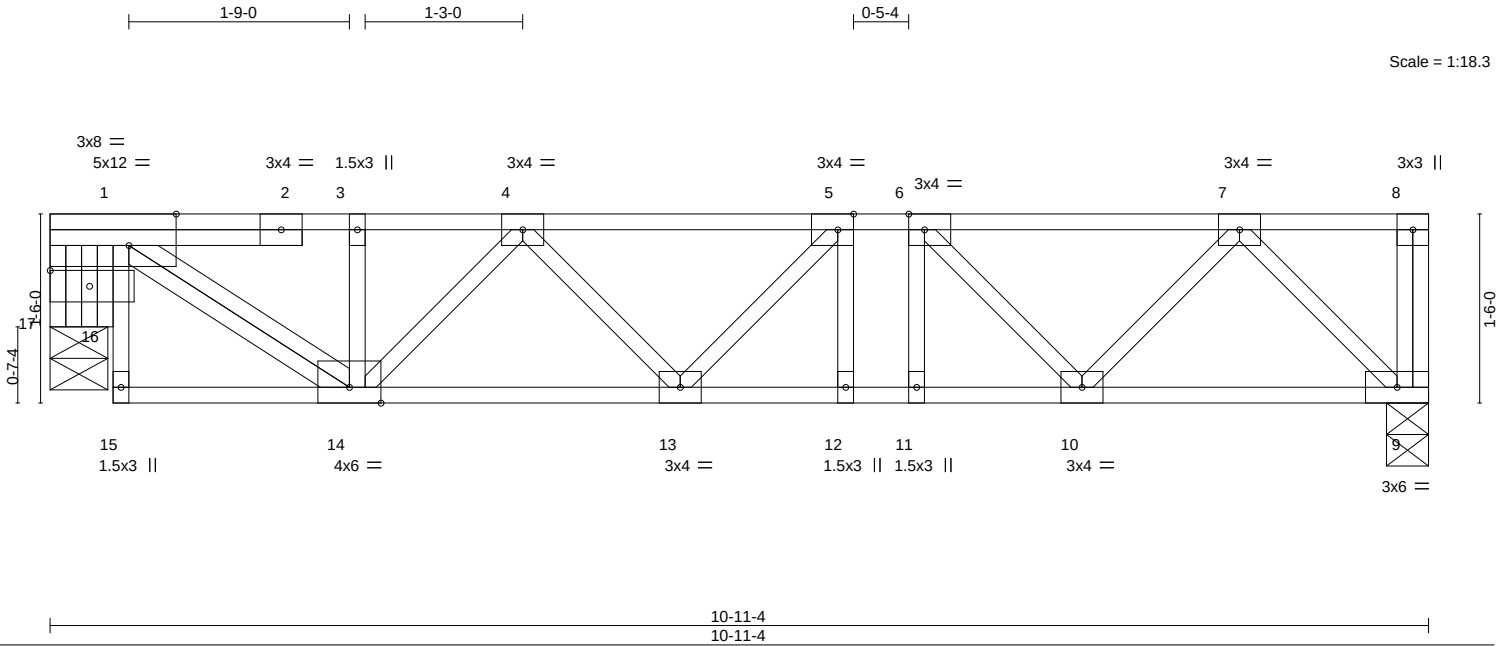

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [17:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 72 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-14: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 17=0-5-8
Max Grav 9=868(LC 1), 17=841(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1016/0, 3-4=-1020/0, 4-5=-1574/0, 5-6=-1626/0, 6-7=-1197/0
BOT CHORD	13-14=0/1486, 12-13=0/1626, 11-12=0/1626, 10-11=0/1626, 9-10=0/797
WEBS	1-14=0/1121, 4-14=-658/0, 5-12=-294/145, 7-9=-1126/0, 7-10=0/595, 6-10=-621/0, 6-11=-139/298, 1-17=-866/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 16,2021

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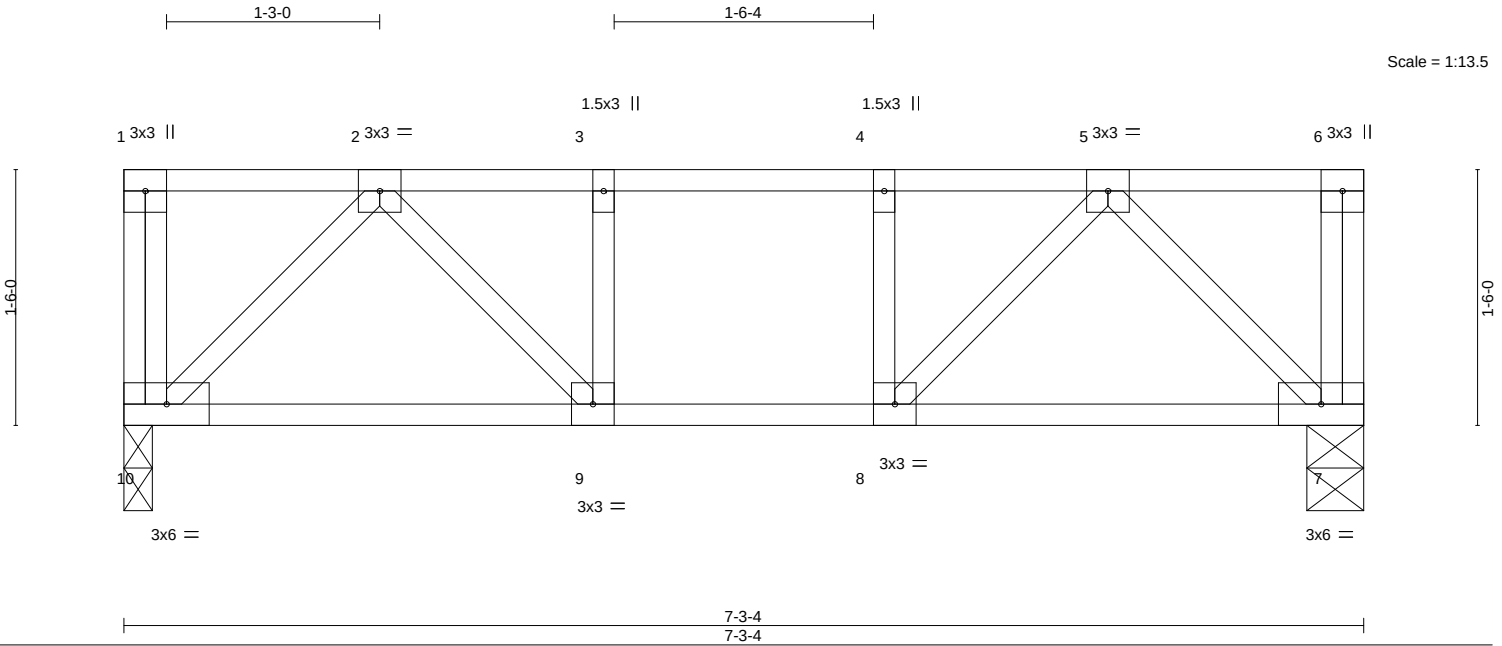
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	C20	FLOOR	2	1	I49293170
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hotLh2xqWu_C3c0Rg6j8V8Dz2D?csgbTUq96Ory8eNo



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=878(LC 1), 7=878(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1091/0, 3-4=-1091/0, 4-5=-1091/0
BOT CHORD	9-10=0/730, 8-9=0/1091, 7-8=0/730
WEBS	2-10=-1032/0, 2-9=0/609, 5-7=-1032/0, 5-8=0/609, 4-8=-365/0, 3-9=-365/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F1	Floor	6	1	I49293171
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:16 2021 Page 1
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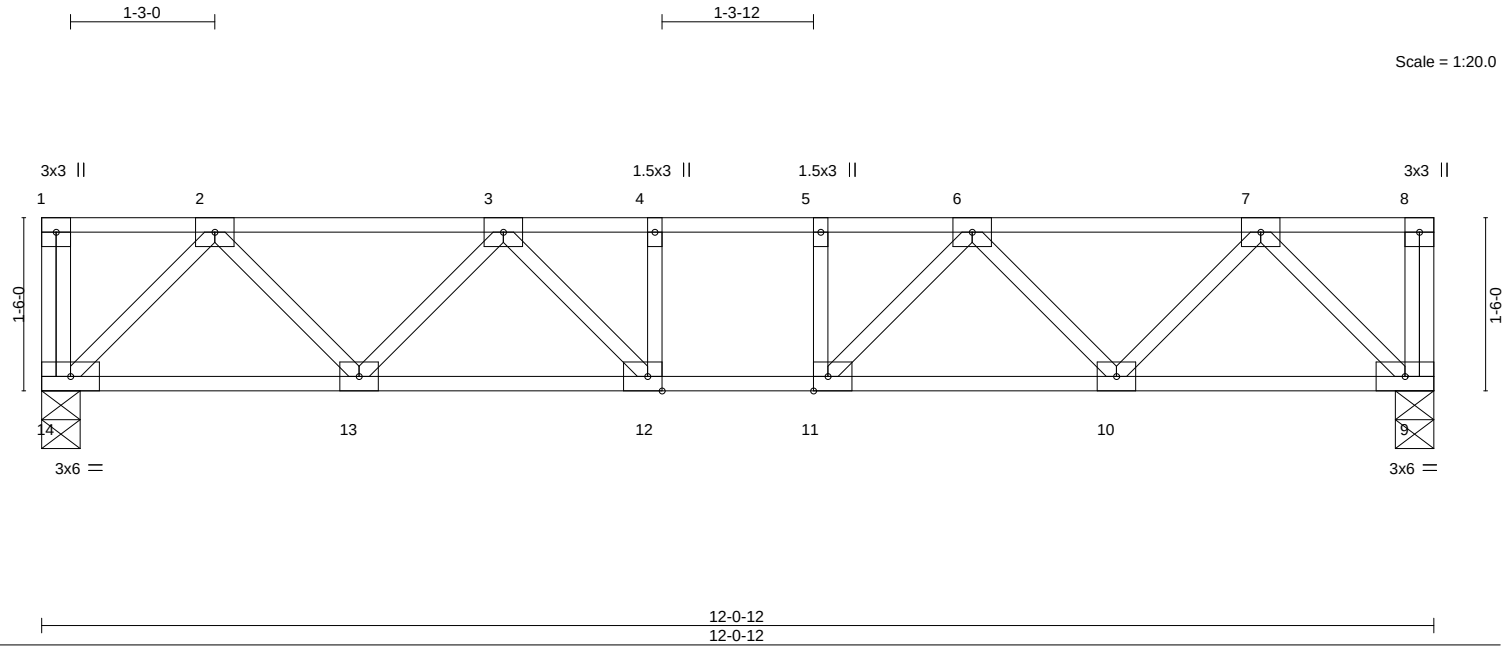

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F2	Floor	36	1	I49293172
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:40 2021 Page 1
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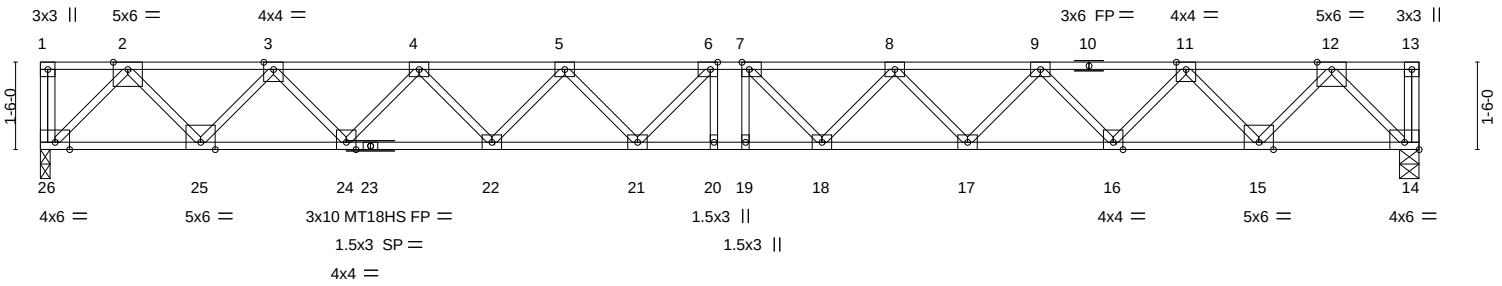

23-8-0
23-8-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.46	20	>613	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.75	20	>377	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-2-0, 14=0-4-0
Max Grav 26=1522(LC 1), 14=1522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2551/0, 3-4=-4400/0, 4-5=-5658/0, 5-6=-6317/0, 6-7=-6495/0, 7-8=-6317/0, 8-9=-5658/0, 9-11=-4399/0, 11-12=-2550/0
BOT CHORD 25-26=0/1460, 24-25=0/3616, 22-24=0/5162, 21-22=0/6130, 20-21=0/6495, 19-20=0/6495, 18-19=0/6495, 17-18=0/6130, 16-17=0/5163, 15-16=0/3615, 14-15=0/1460
WEBS 2-26=-2065/0, 2-25=0/1622, 3-25=-1583/0, 3-24=0/1166, 4-24=-1134/0, 4-22=0/737, 5-22=-703/0, 5-21=-33/458, 12-14=-2064/0, 12-15=0/1621, 11-15=-1583/0, 11-16=0/1165, 9-16=-1135/0, 9-17=0/737, 8-17=-702/0, 8-18=-33/457, 7-18=-511/132, 6-21=-511/133

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F3	Floor	3	1	I49293173
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:12 2021 Page 1
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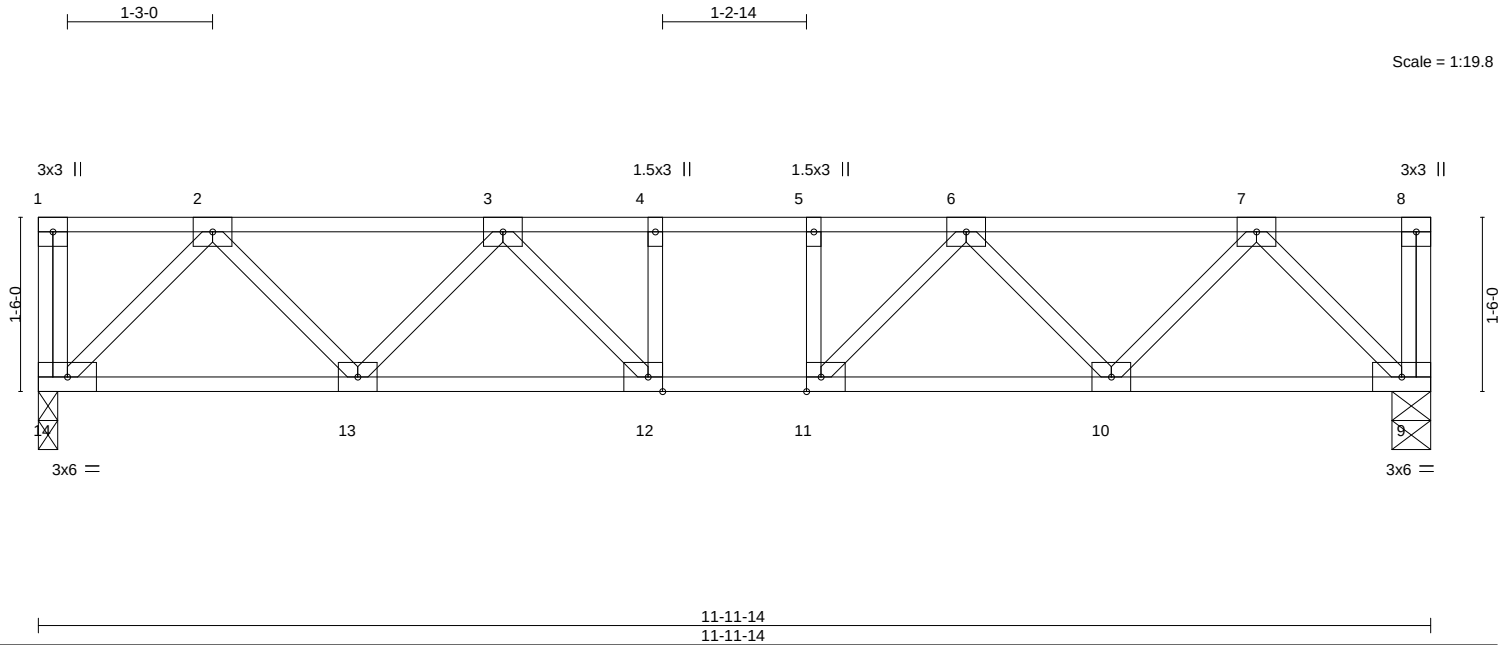

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=763(LC 1), 9=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1102/0, 3-4=-1612/0, 4-5=-1612/0, 5-6=-1612/0, 6-7=-1102/0
BOT CHORD 13-14=0/707, 12-13=0/1471, 11-12=0/1612, 10-11=0/1471, 9-10=0/707
WEBS 2-14=-1000/0, 2-13=0/588, 3-13=-548/0, 3-12=0/359, 7-9=-1000/0, 7-10=0/588, 6-10=-548/0, 6-11=0/359

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F4	Floor	3	1	I49293174
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:21 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-W1LJDMrF5eIix_gf0e2VVlHd52CSC8eMVL40_Yy8eMe

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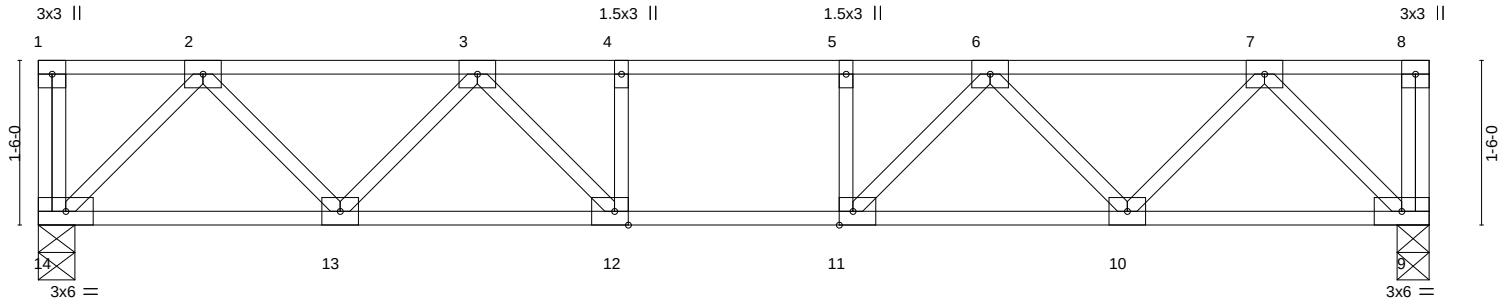

12-8-1
12-8-1

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-3-8
Max Grav 14=807(LC 1), 9=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1186/0, 3-4=-1793/0, 4-5=-1793/0, 5-6=-1793/0, 6-7=-1186/0
BOT CHORD 13-14=0/752, 12-13=0/1593, 11-12=0/1793, 10-11=0/1593, 9-10=0/752
WEBS 2-14=-1063/0, 2-13=0/645, 3-13=-605/0, 3-12=0/462, 4-12=-261/0, 7-9=-1063/0, 7-10=0/645, 6-10=-605/0, 6-11=0/462, 5-11=-261/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F4A	Floor	2	1	I49293175
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:29 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-HZqKv5xGC5JZuDHBUKBNqRc1JHzk4mwXKb0SG5y8eMW

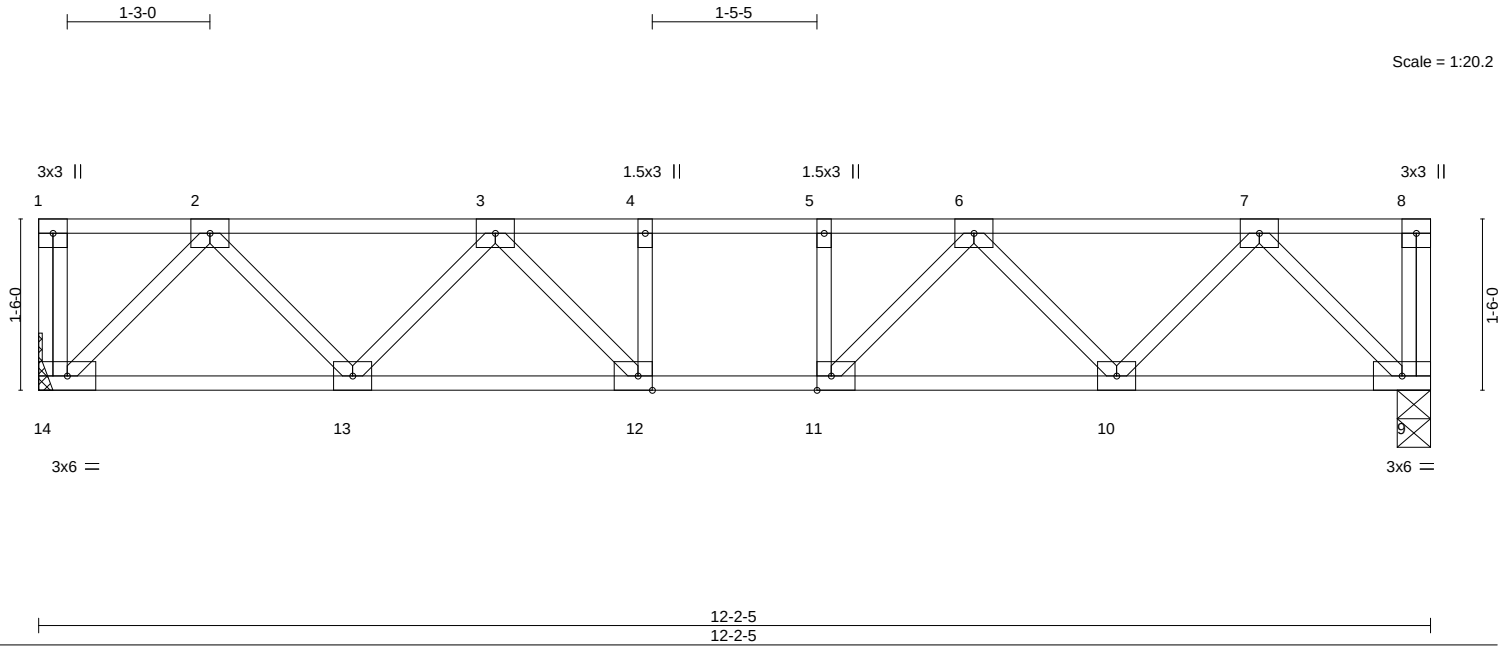

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-3-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1665/0, 4-5=-1665/0, 5-6=-1665/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1507, 11-12=0/1665, 10-11=0/1507, 9-10=0/720
WEBS 2-14=-1019/0, 2-13=0/605, 3-13=-565/0, 3-12=0/389, 7-9=-1019/0, 7-10=0/605, 6-10=-565/0, 6-11=0/389

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F5	Floor	2	1	I49293176
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:31 2021 Page 1
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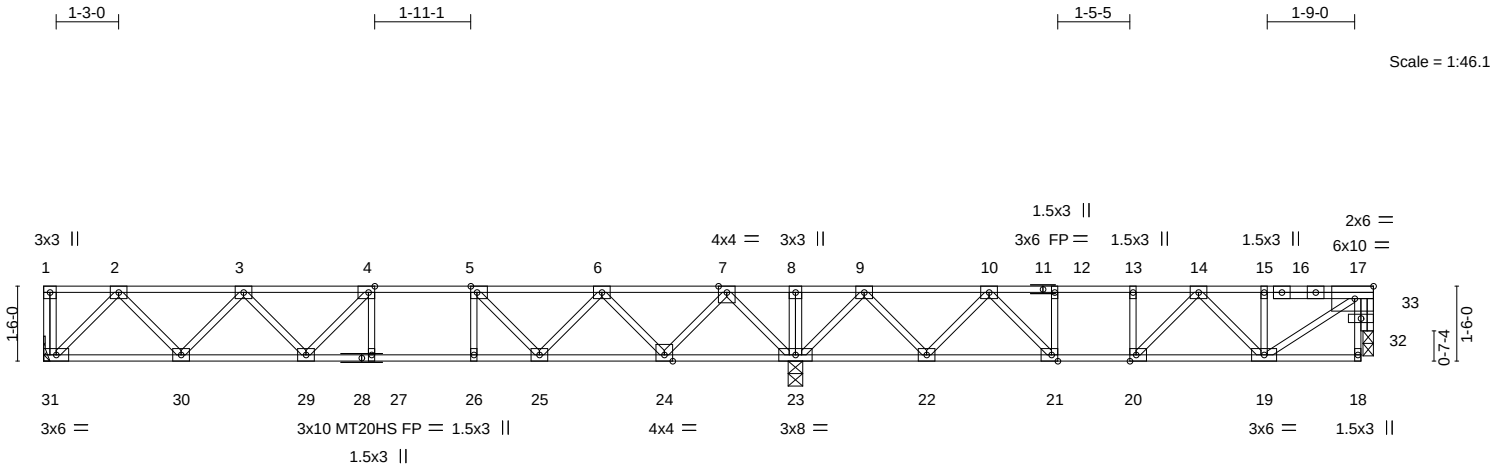

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.12	27-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.19	27-29	>940	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 147 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 17-19: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.

REACTIONS. (size) 31=Mechanical, 23=0-3-8, 33=0-2-8
Max Grav 31=875(LC 3), 23=1987(LC 1), 33=629(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1321/0, 3-4=-1988/0, 4-5=-2100/0, 5-6=-1670/0, 6-7=-652/48, 7-8=0/1362, 8-9=0/1362, 9-10=-469/388, 10-12=-1157/0, 12-13=-1157/0, 13-14=-1157/0, 14-15=-786/0, 15-17=-790/0
BOT CHORD	30-31=0/811, 29-30=0/1811, 27-29=0/2100, 26-27=0/2100, 25-26=0/2100, 24-25=0/1297, 23-24=-454/0, 22-23=-642/18, 21-22=-135/911, 20-21=0/1157, 19-20=0/1059
WEBS	2-31=-1146/0, 2-30=0/759, 3-30=-728/0, 3-29=0/263, 7-23=-1443/0, 7-24=0/1035, 6-24=-994/0, 6-25=0/599, 5-25=-725/0, 5-26=0/250, 17-19=0/864, 9-23=-1179/0, 9-22=0/763, 10-22=-771/0, 10-21=0/595, 12-21=-297/0, 14-19=-395/0, 17-33=-648/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F6	Floor	5	1	I49293177
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:43 2021 Page 1
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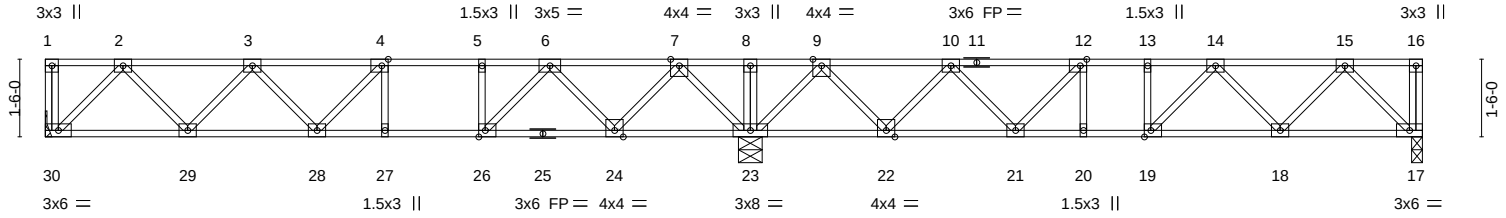

13-7-8 26-7-6
13-7-8 12-11-14

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.12	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	27-28	>864	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 145 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 26-27
6-0-0 oc bracing: 23-24,22-23.

REACTIONS. (size) 30=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 30=800(LC 3), 17=742(LC 7), 23=1968(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1179/0, 3-4=-1707/0, 4-5=-1699/0, 5-6=-1699/0, 6-7=-689/248, 7-8=0/1322, 8-9=0/1322, 9-10=-541/123, 10-12=-1315/0, 12-13=-1534/0, 13-14=-1534/0, 14-15=-1061/0
BOT CHORD 29-30=0/733, 28-29=0/1608, 27-28=0/1699, 26-27=0/1699, 24-26=0/1260, 23-24=-520/139, 22-23=-420/0, 21-22=0/1077, 20-21=0/1534, 19-20=0/1534, 18-19=0/1413, 17-18=0/685
WEBS 2-30=-1037/0, 2-29=0/662, 3-29=-637/0, 4-27=-267/0, 7-23=-1305/0, 7-24=0/873, 6-24=-923/0, 6-26=0/811, 5-26=-362/0, 9-23=-1276/0, 9-22=0/887, 10-22=-857/0, 10-21=0/426, 12-21=-456/0, 15-17=-969/0, 15-18=0/559, 14-18=-524/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F7	Floor	10	1	I49293178
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:44 2021 Page 1
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1-3-0 1-3-11

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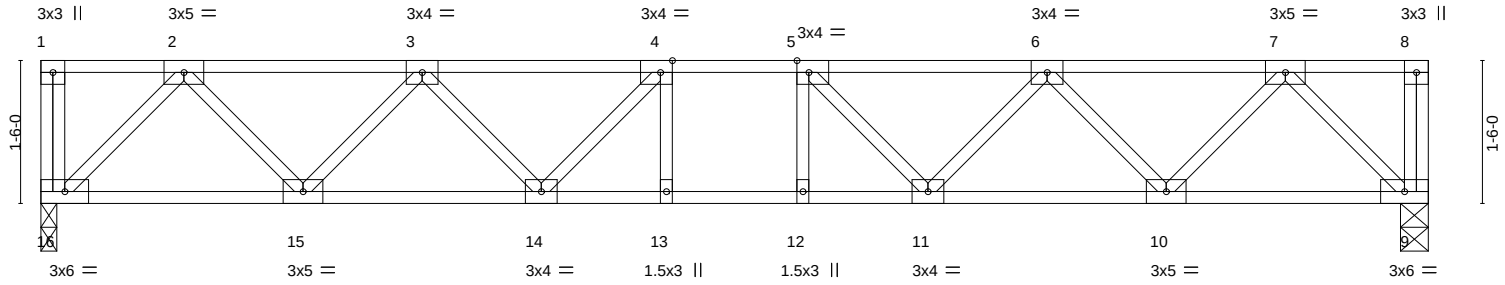

14-6-11
14-6-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1426/0, 3-4=-2191/0, 4-5=-2419/0, 5-6=-2191/0, 6-7=-1426/0
BOT CHORD 15-16=0/868, 14-15=0/1957, 13-14=0/2419, 12-13=0/2419, 11-12=0/2419, 10-11=0/1957, 9-10=0/868
WEBS 2-16=-1228/0, 2-15=0/829, 3-15=-790/0, 3-14=0/398, 4-14=-461/0, 7-9=-1228/0, 7-10=0/829, 6-10=-790/0, 6-11=0/398, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F8	Floor	4	1	I49293179
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:46 2021 Page 1
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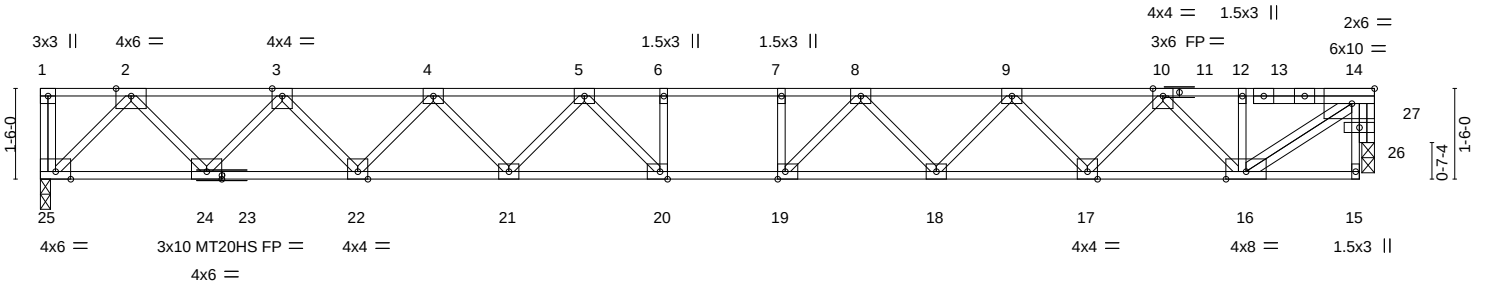

22-0-14
22-0-14

Plate Offsets (X,Y)-- [14:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	20	>747	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.57	20	>460	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 124 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 15-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 14-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-2-0, 27=0-2-8
Max Grav 25=1417(LC 1), 27=1396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2351/0, 3-4=-4009/0, 4-5=-5075/0, 5-6=-5575/0, 6-7=-5575/0, 7-8=-5575/0, 8-9=-4895/0, 9-10=-3709/0, 10-12=-1861/0, 12-14=-1857/0
BOT CHORD	24-25=0/1355, 22-24=0/3319, 21-22=0/4682, 20-21=0/5436, 19-20=0/5575, 18-19=0/5325, 17-18=0/4449, 16-17=0/2945
WEBS	2-25=-1917/0, 2-24=0/1480, 3-24=-1440/0, 3-22=0/1026, 4-22=-999/0, 4-21=0/585, 5-21=-567/0, 5-20=-199/607, 6-20=-311/25, 14-16=0/2113, 10-16=-1528/0, 10-17=0/1136, 9-17=-1101/0, 9-18=0/662, 8-18=-643/0, 8-19=-82/722, 7-19=-361/0, 14-27=-1427/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25, 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F9	Floor	10	1	I49293180
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:47 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-m1w8hF9Zzda03_fX6WbZEM_DX0OIosBTONPv2y8eME

1-3-0 1-3-14

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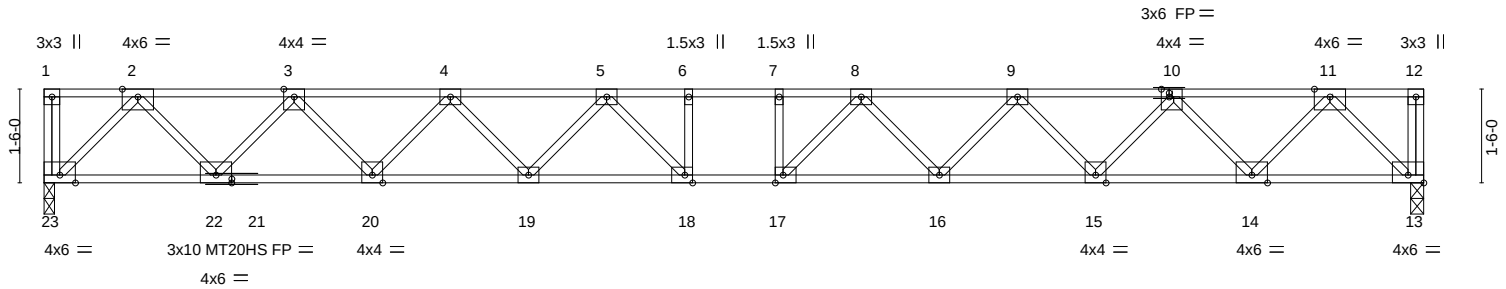

22-0-14
22-0-14

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [13:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.37	17-18	>704	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.60	17-18	>434	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 23=0-2-0, 13=0-2-8
Max Grav 23=1418(LC 1), 13=1418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2353/0, 3-4=-4015/0, 4-5=-5080/0, 5-6=-5598/0, 6-7=-5598/0, 7-8=-5598/0, 8-9=-5080/0, 9-10=-4016/0, 10-11=-2353/0
BOT CHORD 22-23=0/1357, 20-22=0/3324, 19-20=0/4687, 18-19=0/5448, 17-18=0/5598, 16-17=0/5448, 15-16=0/4687, 14-15=0/3323, 13-14=0/1357
WEBS 2-23=-1919/0, 2-22=0/1482, 3-22=-1442/0, 3-20=0/1028, 4-20=-999/0, 4-19=0/584, 5-19=-569/0, 5-18=-177/575, 11-13=-1919/0, 11-14=0/1481, 10-14=-1442/0, 10-15=0/1029, 9-15=-998/0, 9-16=0/583, 8-16=-569/0, 8-17=-177/575, 7-17=-272/21, 6-18=-272/21

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23, 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

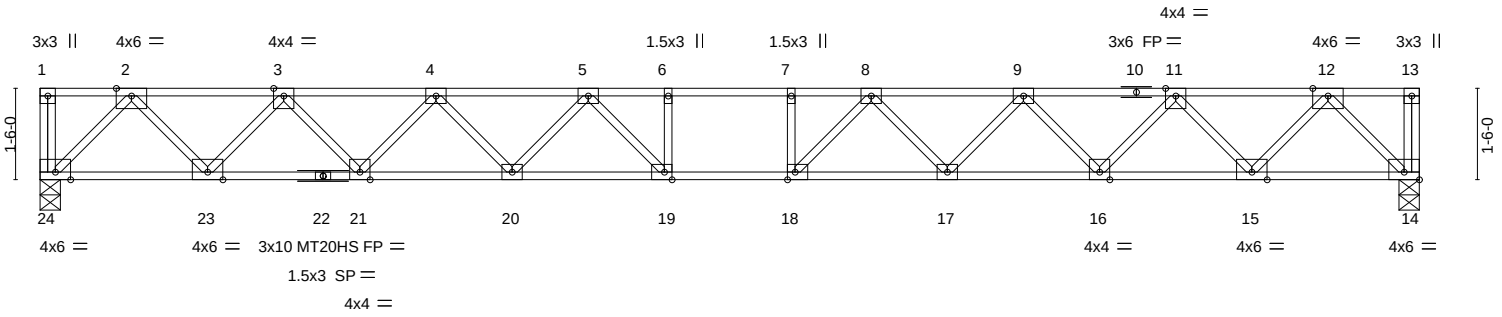
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F10	Floor	4	1	I49293181
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:18 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sv2V?p4kwHMetIMYpvQkSSAmufdMxYS402JBHiy8eNd

1-3-0 1-10-12

Scale = 1:37.8



22-7-12
22-7-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.39	18-19	>696	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.63	18-19	>428	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-4-0, 14=0-4-0
Max Grav 24=1456(LC 1), 14=1456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2424/0, 3-4=-4154/0, 4-5=-5285/0, 5-6=-5886/0, 6-7=-5886/0, 7-8=-5886/0, 8-9=-5285/0, 9-11=-4154/0, 11-12=-2423/0
BOT CHORD 23-24=0/1394, 21-23=0/3428, 20-21=0/4860, 19-20=0/5686, 18-19=0/5886, 17-18=0/5686, 16-17=0/4860, 15-16=0/3427, 14-15=0/1394
WEBS 2-24=-1972/0, 2-23=0/1531, 3-23=-1492/0, 3-21=0/1080, 4-21=-1050/0, 4-20=0/631, 5-20=-620/0, 5-19=-149/691, 6-19=-349/1, 12-14=-1972/0, 12-15=0/1530, 11-15=-1492/0, 11-16=0/1081, 9-16=-1049/0, 9-17=0/632, 8-17=-621/0, 8-18=-149/691, 7-18=-349/1

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F11	Floor	10	1	I49293182
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:19 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-L5btD95MhaUVVSxkNdxz?giyj3zfg_mEEi3kp8y8eNc

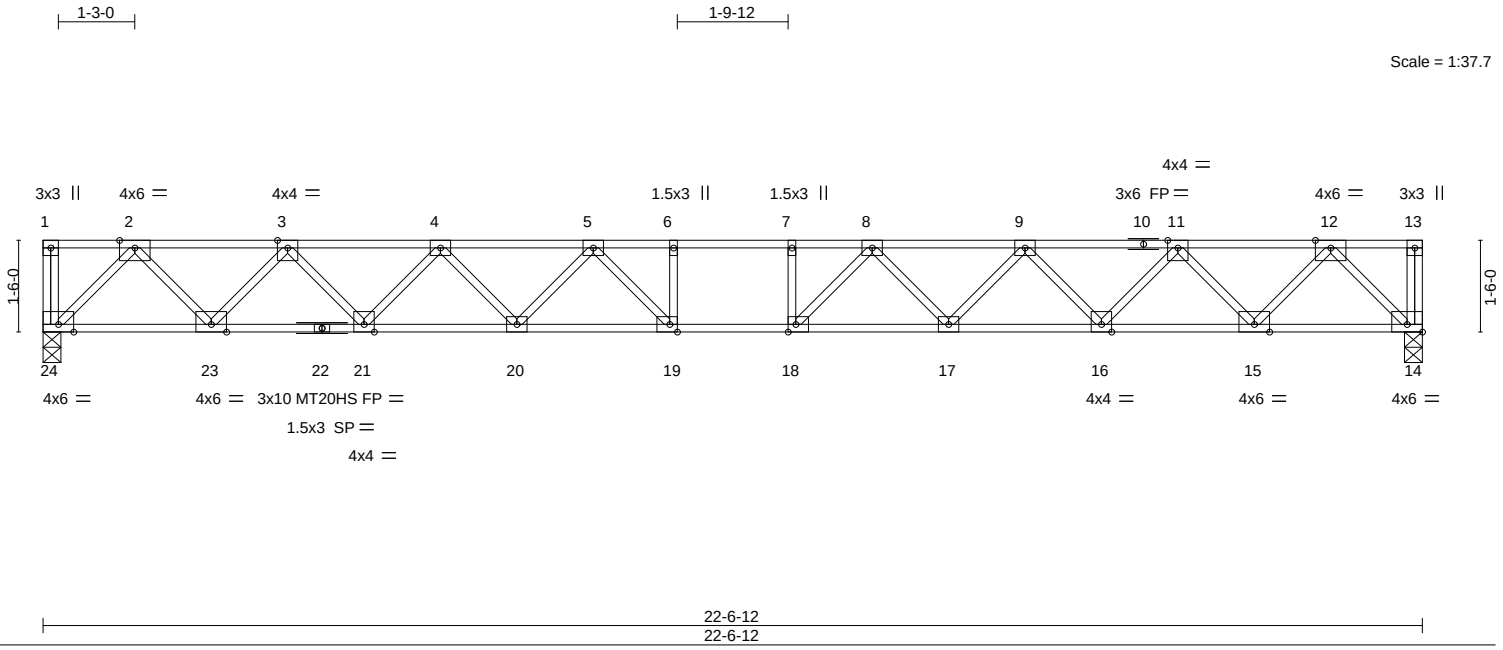

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>703	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4134/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 21-23=0/3412, 20-21=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1484/0, 3-21=0/1073, 4-21=-1042/0, 4-20=0/624, 5-20=-612/0, 5-19=-154/674, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6, 6-19=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F12	Floor	5	1	I49293183
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:20 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-pI9FQV5_SudM7cVwxKSCXtFDUTOqPYhNTMoILby8eNb

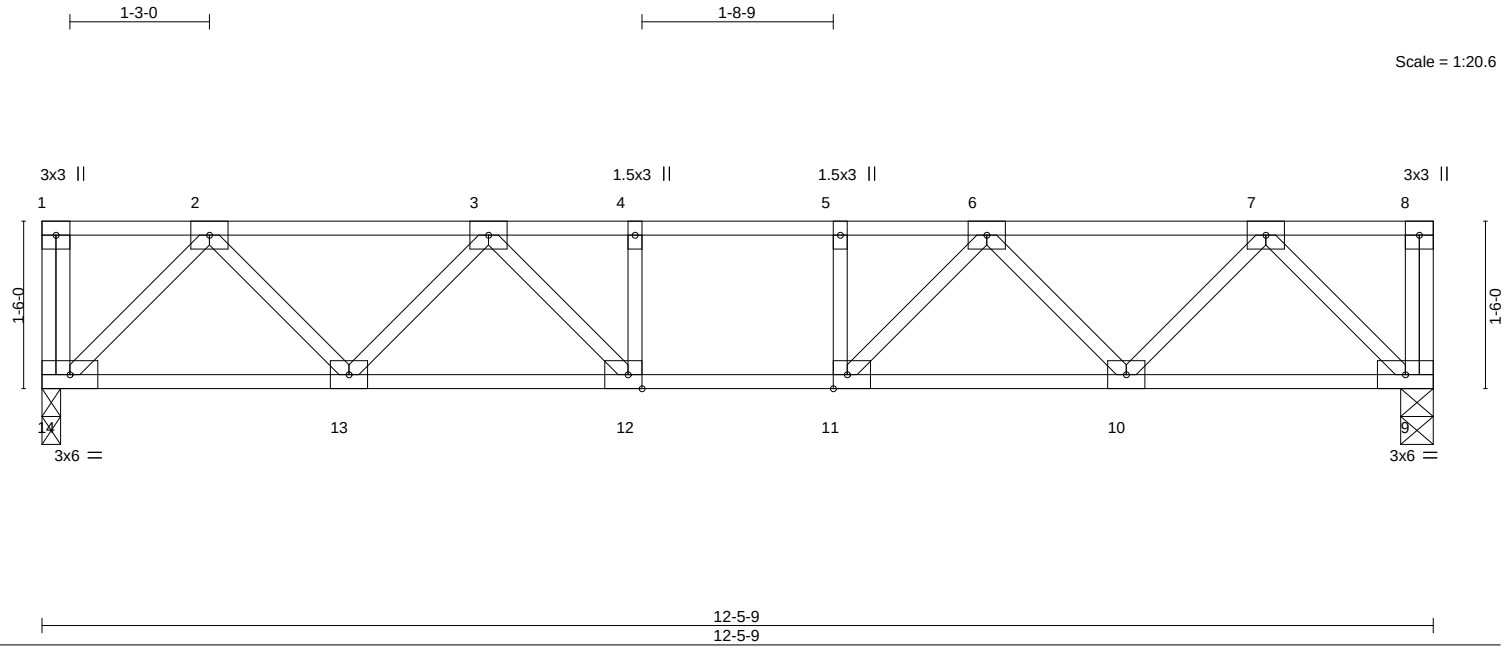

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-3-8
Max Grav 14=794(LC 1), 9=794(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1161/0, 3-4=-1737/0, 4-5=-1737/0, 5-6=-1737/0, 6-7=-1161/0
BOT CHORD 13-14=0/738, 12-13=0/1556, 11-12=0/1737, 10-11=0/1556, 9-10=0/738
WEBS 2-14=-1044/0, 2-13=0/628, 3-13=-588/0, 3-12=0/430, 7-9=-1044/0, 7-10=0/628, 6-10=-588/0, 6-11=0/430

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F13	Floor	2	1	I49293184
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:23 2021 Page 1
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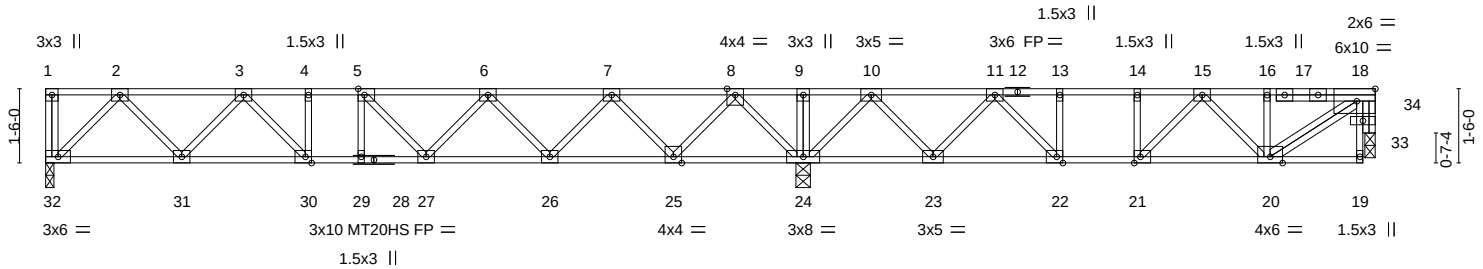

15-3-13 15-3-13 | 26-10-10 11-6-13

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-4-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.10	27-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.16	27-29	>999	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=0-2-0, 24=0-3-8, 34=0-2-8
Max Grav 32=857(LC 3), 24=2099(LC 1), 34=603(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1273/0, 3-4=-2016/0, 4-5=-2016/0, 5-6=-1974/0, 6-7=-1463/0, 7-8=-338/217, 8-9=0/1790, 9-10=0/1790, 10-11=-301/711, 11-13=-1054/101, 13-14=-1054/101, 14-15=-1054/101, 15-16=-736/0, 16-18=-730/0
BOT CHORD 31-32=0/799, 30-31=0/1740, 29-30=0/2016, 27-29=0/2016, 26-27=0/1870, 25-26=0/1037, 24-25=-715/0, 23-24=-1006/0, 22-23=-409/768, 21-22=-101/1054, 20-21=0/996
WEBS 2-32=-1129/0, 2-31=0/705, 3-31=-694/0, 3-30=0/466, 8-24=-1521/0, 8-25=0/1113, 7-25=-1084/0, 7-26=0/677, 6-26=-648/0, 6-27=0/297, 5-27=-298/39, 10-24=-1242/0, 10-23=0/817, 11-23=-834/0, 11-22=0/706, 13-22=-359/0, 18-20=0/811, 15-20=-366/49, 18-34=-620/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32, 34.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 16,2021

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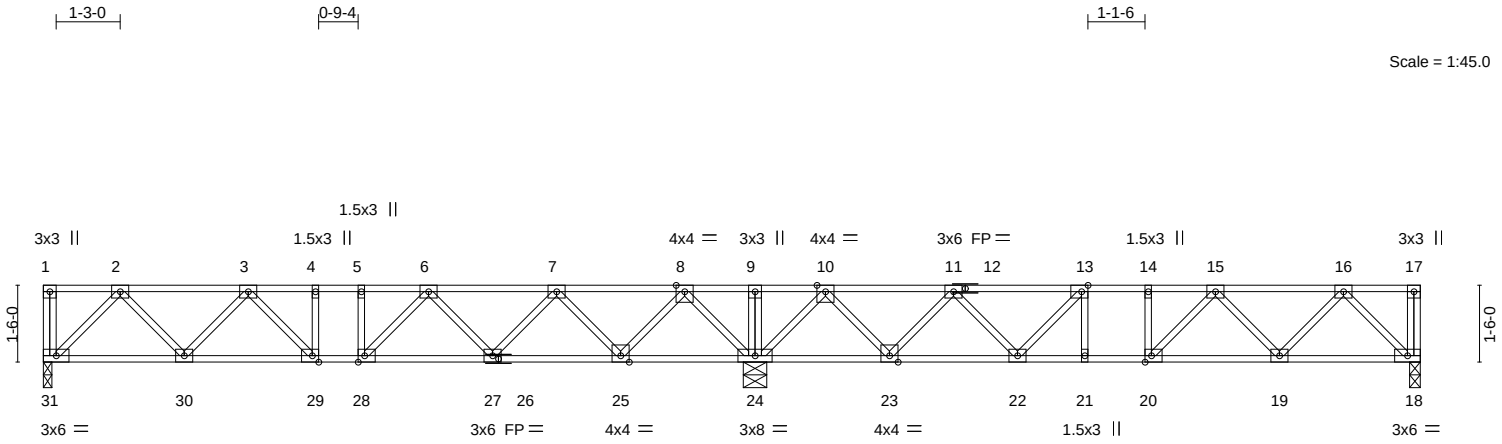
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F14	Floor	5	1	I49293185
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-h3PmGs9VW77nbDpiAAW8hjQqz4lHLJhzOzmVUMy8eNX



13-10-12 | 26-10-10
13-10-12 | 12-11-14

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [20:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.06	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.09	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 148 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 18=0-2-8, 24=0-5-8
Max Grav 31=762(LC 3), 18=701(LC 4), 24=2120(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/0, 3-4=-1612/0, 4-5=-1612/0, 5-6=-1612/0, 6-7=-1233/0, 7-8=-278/495, 8-9=0/1856, 9-10=0/1856, 10-11=-241/578, 11-13=-1087/85, 13-14=-1363/0, 14-15=-1363/0, 15-16=-986/0
BOT CHORD 30-31=0/705, 29-30=0/1469, 28-29=0/1612, 27-28=0/1538, 25-27=-196/900, 24-25=-858/0, 23-24=-940/0, 22-23=-290/810, 21-22=0/1363, 20-21=0/1363, 19-20=0/1298, 18-19=0/645
WEBS 2-31=-998/0, 2-30=0/585, 3-30=-549/0, 8-24=-1418/0, 8-25=0/1027, 7-25=-998/0, 7-27=0/564, 6-27=-531/0, 6-28=0/400, 10-24=-1356/0, 10-23=0/963, 11-23=-929/0, 11-22=0/511, 13-22=-583/0, 16-18=-912/0, 16-19=0/507, 15-19=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F15	Floor	9	1	I49293186
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:30 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WDm1WwDG5ztxJ8GrWRdYx_gteVqdl2XrmvDqi?y8eNR

1-3-0 0-6-0 0-11-4 0-9-12

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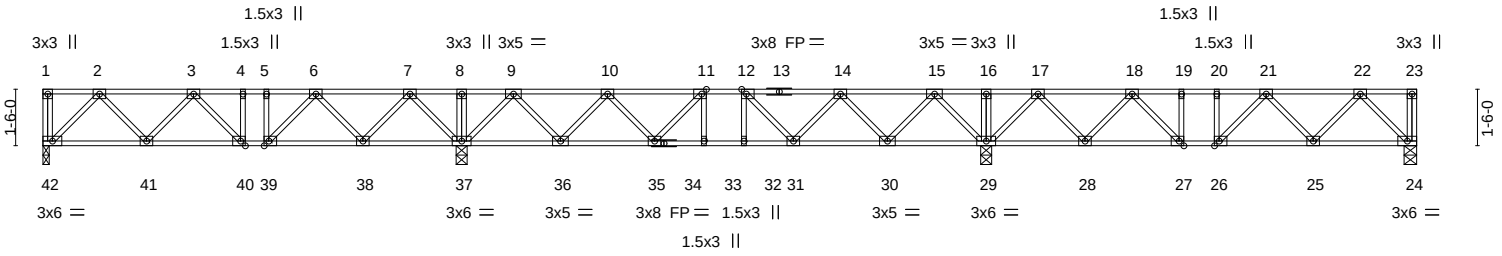

11-1-8 25-0-12 36-6-0
11-1-8 13-11-4 11-5-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=635(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/13, 4-5=-1012/13, 5-6=-1012/13, 6-7=-378/469, 7-8=0/1435, 8-9=0/1435, 9-10=-263/291, 10-11=-998/11, 11-12=-1208/0, 12-14=-1012/10, 14-15=-296/289, 15-16=0/1390, 16-17=0/1390, 17-18=-412/422, 18-19=-1092/0, 19-20=-1092/0, 20-21=-1092/0, 21-22=-864/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-13/1012, 38-39=-217/803, 37-38=-734/0, 36-37=-569/0, 35-36=-101/779, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-100/803, 29-30=-540/0, 28-29=-683/0, 27-28=-171/854, 26-27=0/1092, 25-26=0/1111, 24-25=0/580
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1165/0, 7-38=0/757, 6-38=-743/0, 6-39=0/514, 3-40=-296/0, 9-37=-1231/0, 9-36=0/845, 10-36=-814/0, 10-35=0/378, 11-35=-374/0, 15-29=-1217/0, 15-30=0/833, 14-30=-803/0, 14-31=0/365, 12-31=-356/0, 17-29=-1178/0, 17-28=0/766, 18-28=-760/0, 18-27=0/556, 22-24=-820/0, 22-25=0/422, 21-25=-368/2, 21-26=-275/3, 19-27=-273/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F16	Floor	5	1	I49293187
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:32 2021 Page 1
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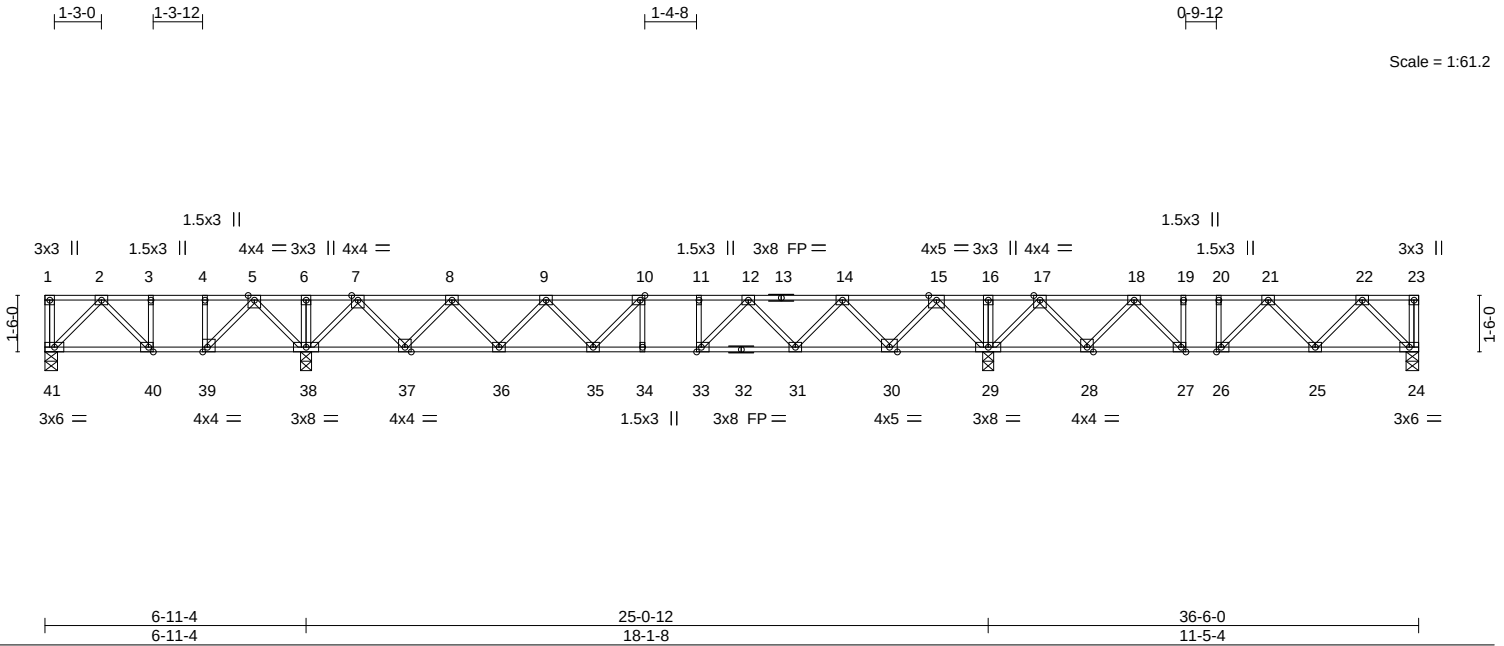

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>964	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=337(LC 5), 24=604(LC 5), 38=1871(LC 3), 29=2228(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/453, 3-4=-277/453, 4-5=-277/453, 5-6=0/1405, 6-7=0/1405, 7-8=-546/0, 8-9=-1675/0, 9-10=-2239/0, 10-11=-2292/0, 11-12=-2292/0, 12-14=-1474/0, 14-15=-205/266, 15-16=0/2040, 16-17=0/2040, 17-18=-212/950, 18-19=-963/297, 19-20=-963/297, 20-21=-963/297, 21-22=-805/0
BOT CHORD 40-41=-139/255, 39-40=-453/277, 38-39=-922/0, 37-38=-353/0, 36-37=0/1238, 35-36=0/2110, 34-35=0/2292, 33-34=0/2292, 31-33=0/1963, 30-31=0/987, 29-30=-879/0, 28-29=-1283/0, 27-28=-618/685, 26-27=-297/963, 25-26=-70/1022, 24-25=0/548
WEBS 2-41=-361/197, 2-40=-454/32, 5-38=-889/0, 5-39=0/849, 4-39=-449/0, 7-38=-1518/0, 7-37=0/1128, 8-37=-1078/0, 8-36=0/671, 9-36=-651/0, 9-35=0/250, 15-29=-1642/0, 15-30=0/1243, 14-30=-1204/0, 14-31=0/761, 12-31=-774/0, 12-33=0/669, 11-33=-285/0, 17-29=-1287/0, 17-28=0/868, 18-28=-874/0, 18-27=0/715, 22-24=-776/0, 22-25=-50/382, 21-25=-323/121, 21-26=-434/0, 19-27=-348/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F17	Floor	3	1	I49293188
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:34 2021 Page 1
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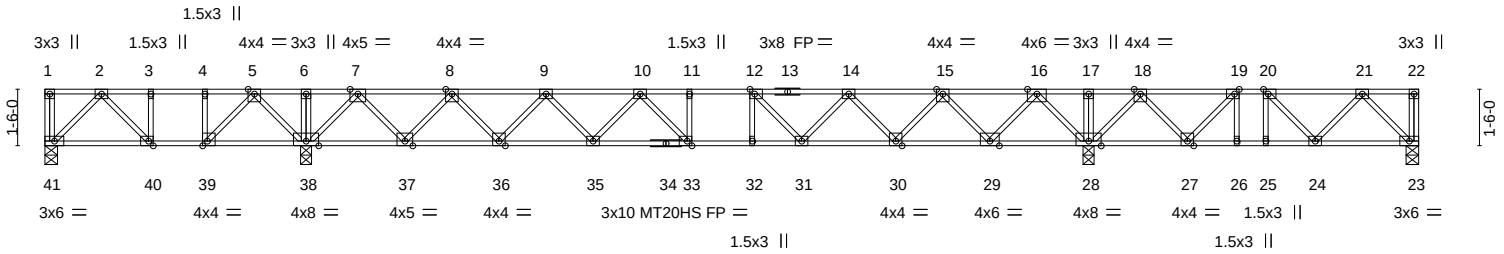
Scale = 1:61.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-4	27-8-12	36-6-0
6-11-4	20-9-8	8-9-4

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.20	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	33-35	>775	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 13-22: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 28=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-188(LC 6), 23=-182(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=297(LC 5), 23=382(LC 5), 38=2117(LC 3), 28=2397(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-179/674, 3-4=-179/674, 4-5=-179/674, 5-6=0/1858, 6-7=0/1858, 7-8=-416/0, 8-9=-1838/0, 9-10=-2682/0, 10-11=-2913/0, 11-12=-2913/0, 12-14=-2481/0, 14-15=-1451/0, 15-16=0/306, 16-17=0/2610, 17-18=0/2610, 18-19=0/1460, 19-20=-346/899, 20-21=-374/479
BOT CHORD 39-40=-674/179, 38-39=-1279/0, 37-38=-639/0, 36-37=0/1268, 35-36=0/2396, 33-35=0/2934, 32-33=0/2913, 31-32=0/2913, 30-31=0/2095, 29-30=0/777, 28-29=-1287/0, 27-28=-1925/0, 26-27=-899/346, 25-26=-899/346, 24-25=-899/346, 23-24=-187/338
WEBS 2-41=-306/322, 2-40=-647/0, 5-38=-1008/0, 5-39=0/1046, 4-39=-558/0, 3-40=-5/326, 7-38=-1735/0, 7-37=0/1346, 8-37=-1293/0, 8-36=0/872, 9-36=-853/0, 9-35=0/447, 10-35=-380/0, 10-33=-271/290, 16-28=-1875/0, 16-29=0/1467, 15-29=-1447/0, 15-30=0/1021, 14-30=-976/0, 14-31=0/610, 12-31=-743/0, 18-28=-1247/0, 18-27=0/899, 19-27=-1035/0, 21-23=-478/264, 21-24=-435/53, 20-24=0/608, 20-25=-437/0, 19-26=0/452

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 41 and 182 lb uplift at joint 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

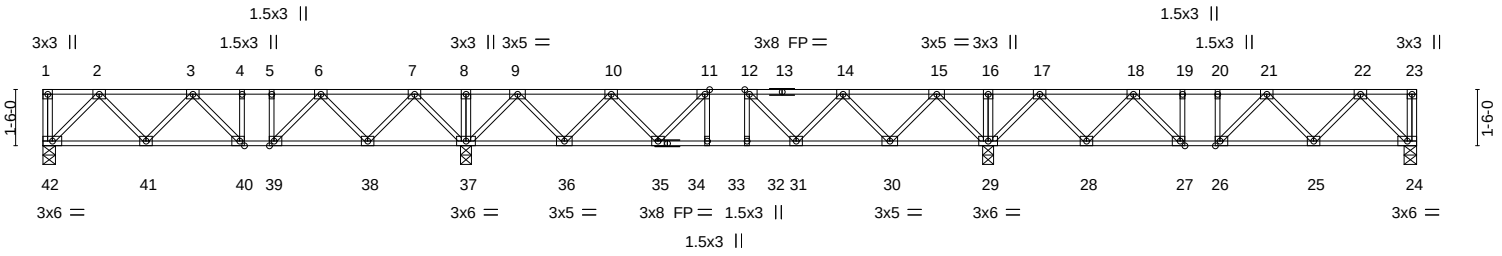
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F18	Floor	3	1	I49293189
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-pZhg_JJfS6mxfDJCRPFBjTS4vJDGuCHtNVQhS5y8eNK

1-3-0 0-8-0 0-11-4 0-9-12

Scale = 1:61.5



11-3-8 25-2-12 36-8-0
11-3-8 13-11-4 11-5-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=624(LC 5), 24=635(LC 5), 37=1849(LC 3), 29=1848(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-842/0, 3-4=-1054/0, 4-5=-1054/0, 5-6=-1054/0, 6-7=-395/448, 7-8=0/1417, 8-9=0/1417, 9-10=-281/291, 10-11=-1011/11, 11-12=-1218/0, 12-14=-1019/10, 14-15=-298/289, 15-16=0/1393, 16-17=0/1393, 17-18=-413/425, 18-19=-1092/0, 19-20=-1092/0, 20-21=-1092/0, 21-22=-864/0
BOT CHORD 41-42=0/568, 40-41=0/1080, 39-40=0/1054, 38-39=-196/829, 37-38=-712/0, 36-37=-556/0, 35-36=-101/795, 33-35=0/1218, 32-33=0/1218, 31-32=0/1218, 30-31=-100/807, 29-30=-540/0, 28-29=-686/0, 27-28=-172/854, 26-27=0/1092, 25-26=0/1111, 24-25=0/580
WEBS 2-42=-804/0, 2-41=0/407, 3-41=-354/13, 3-40=-287/0, 7-37=-1173/0, 7-38=0/762, 6-38=-753/0, 6-39=0/538, 5-39=-261/0, 9-37=-1228/0, 9-36=0/843, 10-36=-812/0, 10-35=0/376, 11-35=-370/0, 15-29=-1221/0, 15-30=0/836, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1179/0, 17-28=0/766, 18-28=-761/0, 18-27=0/556, 22-24=-820/0, 22-25=0/422, 21-25=-368/3, 21-26=-275/3, 19-27=-274/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F19	Floor	3	1	I49293190
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:39 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-lypRP?Kv_k0fuXSaYqIfouXQM7vFM6kArpvoW_y8eNI

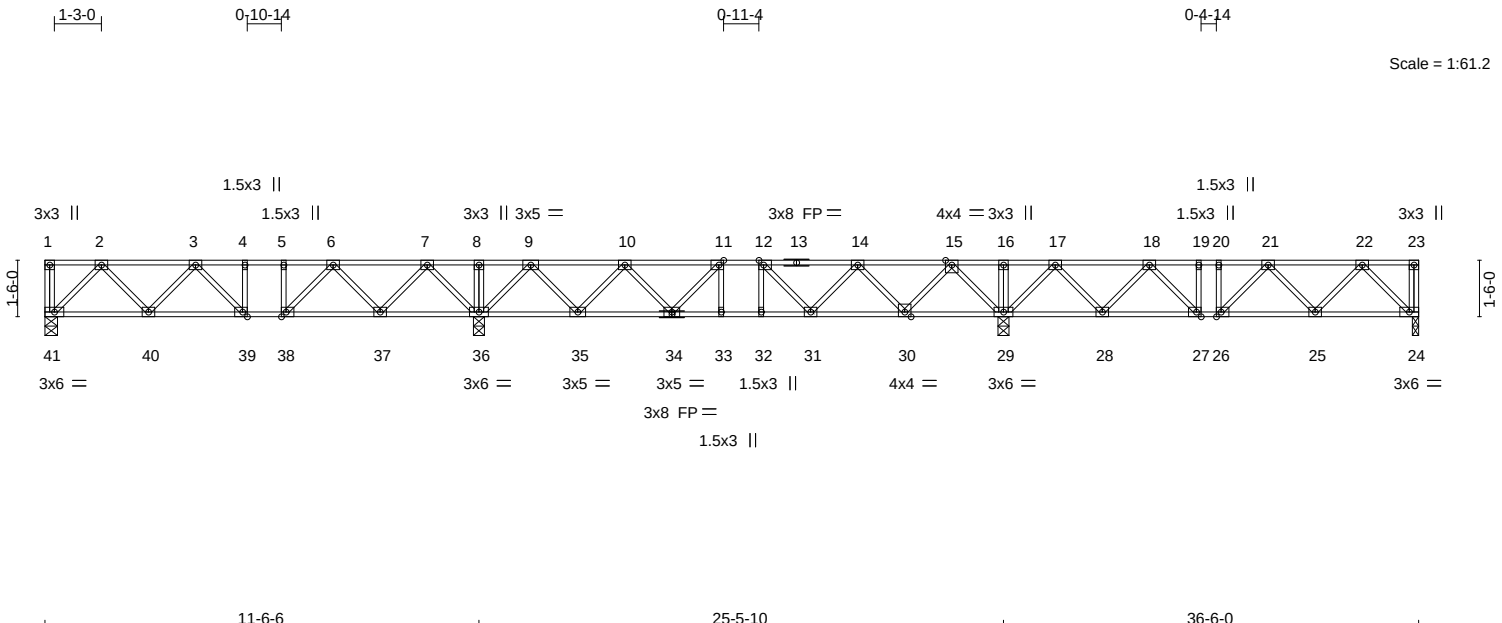

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.06	39-40	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 24=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=643(LC 5), 24=605(LC 5), 36=1845(LC 3), 29=1844(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-878/0, 3-4=-1118/0, 4-5=-1118/0, 5-6=-1118/0, 6-7=-425/406, 7-8=0/1373, 8-9=0/1373, 9-10=-308/286, 10-11=-1019/8, 11-12=-1211/0, 12-14=-997/9, 14-15=-256/289, 15-16=0/1444, 16-17=0/1444, 17-18=-370/480, 18-19=-990/28, 19-20=-990/28, 20-21=-990/28, 21-22=-804/0
BOT CHORD 40-41=0/587, 39-40=0/1132, 38-39=0/1118, 37-38=-155/871, 36-37=-666/0, 35-36=-528/0, 34-35=-97/813, 33-34=0/1211, 32-33=0/1211, 31-32=0/1211, 30-31=-99/775, 29-30=-573/0, 28-29=-746/0, 27-28=-228/790, 26-27=-28/990, 25-26=0/1027, 24-25=0/549
WEBS 2-41=-830/0, 2-40=0/433, 3-40=-377/0, 3-39=-266/11, 7-36=-1182/0, 7-37=0/768, 6-37=-765/0, 6-38=0/567, 5-38=-281/0, 9-36=-1213/0, 9-35=0/829, 10-35=-799/0, 10-34=0/361, 11-34=-351/0, 15-29=-1234/0, 15-30=0/849, 14-30=-817/0, 14-31=0/382, 12-31=-379/0, 17-29=-1160/0, 17-28=0/753, 18-28=-738/0, 18-27=0/500, 22-24=-777/0, 22-25=0/379, 21-25=-331/29, 21-26=-300/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

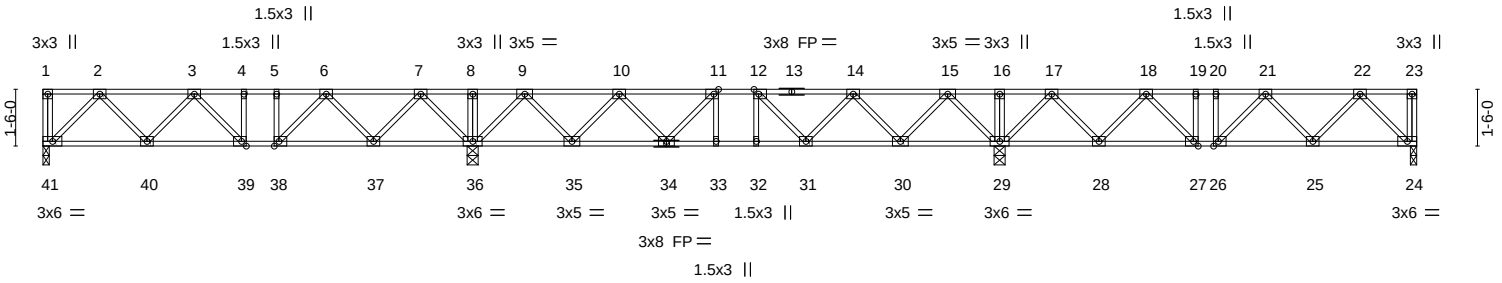
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F20	Floor	4	1	I49293191
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9XUZ10MoHfOEl_B9DyrMQW9xcKxrZTVcXn7S7Jy8eNF

1-3-0 0-8-14 0-11-4 0-4-14

Scale = 1:60.9



11-4-6 25-3-10 36-4-0
11-4-6 13-11-4 11-0-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 36=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=630(LC 5), 24=605(LC 5), 36=1843(LC 3), 29=1840(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/0, 3-4=-1073/0, 4-5=-1073/0, 5-6=-1073/0, 6-7=-403/432, 7-8=0/1400, 8-9=0/1400, 9-10=-285/290, 10-11=-1002/11, 11-12=-1198/0, 12-14=-988/10, 14-15=-254/289, 15-16=0/1440, 16-17=0/1440, 17-18=-371/477, 18-19=-990/26, 19-20=-990/26, 20-21=-990/26, 21-22=-804/0
BOT CHORD 40-41=0/574, 39-40=0/1096, 38-39=0/1073, 37-38=-181/841, 36-37=-694/0, 35-36=-548/0, 34-35=-101/793, 33-34=0/1198, 32-33=0/1198, 31-32=0/1198, 30-31=-100/770, 29-30=-573/0, 28-29=-743/0, 27-28=-225/790, 26-27=-26/990, 25-26=0/1027, 24-25=0/549
WEBS 2-41=-812/0, 2-40=0/414, 3-40=-361/7, 3-39=-280/0, 7-36=-1175/0, 7-37=0/764, 6-37=-756/0, 6-38=0/546, 5-38=-267/0, 9-36=-1218/0, 9-35=0/833, 10-35=-803/0, 10-34=0/365, 11-34=-356/0, 15-29=-1230/0, 15-30=0/845, 14-30=-814/0, 14-31=0/377, 12-31=-373/0, 17-29=-1159/0, 17-28=0/753, 18-28=-737/0, 18-27=0/499, 22-24=-777/0, 22-25=0/380, 21-25=-331/29, 21-26=-299/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293192
PRYOR-F2C	F21	Floor	5	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:45 2021 Page 1
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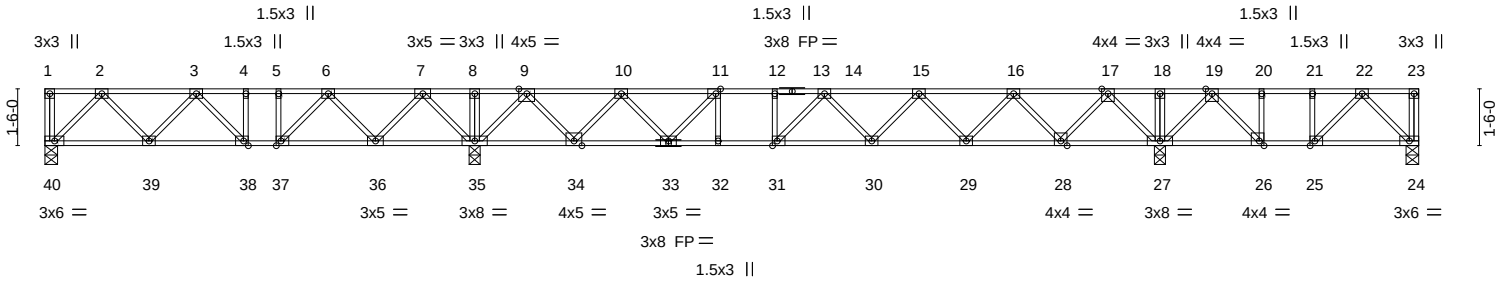
1-3-0 0-8-14 1-4-8 1-2-10

Scale = 1:60.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-4-6	29-5-14	36-4-0
11-4-6	18-1-8	6-10-2

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.27	30-31	>796	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 35=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-138(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 40=605(LC 5), 24=315(LC 5), 35=2186(LC 16), 27=1925(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-807/0, 3-4=-973/242, 4-5=-973/242, 5-6=-973/242, 6-7=-250/853, 7-8=0/1915, 8-9=0/1915, 9-10=-285/229, 10-11=-1533/0, 11-12=-2127/0, 12-14=-2127/0, 14-15=-2221/0, 15-16=-1586/0, 16-17=-422/0, 17-18=0/1563, 18-19=0/1563, 19-20=-230/540, 20-21=-230/540, 21-22=-230/540
BOT CHORD 39-40=0/550, 38-39=-35/1027, 37-38=-242/973, 36-37=-537/711, 35-36=-1173/0, 34-35=-768/0, 33-34=0/1035, 32-33=0/2127, 31-32=0/2127, 30-31=0/2335, 29-30=0/2038, 28-29=0/1136, 27-28=-491/0, 26-27=-1052/0, 25-26=-540/230
WEBS 2-40=-777/0, 2-39=-35/383, 3-39=-326/102, 7-35=-1264/0, 7-36=0/845, 6-36=-846/0, 6-37=0/673, 3-38=-407/0, 5-37=-326/0, 17-27=-1547/0, 17-28=0/1162, 16-28=-1109/0, 16-29=0/687, 15-29=-676/0, 15-30=0/277, 14-31=-473/20, 9-35=-1622/0, 9-34=0/1197, 10-34=-1153/0, 10-33=0/785, 11-33=-925/0, 11-32=0/311, 19-27=-934/0, 19-26=0/904, 22-24=-331/254, 22-25=-523/0, 21-25=-33/250, 20-26=-473/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F22	Floor	3	1	I49293193
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:47 2021 Page 1
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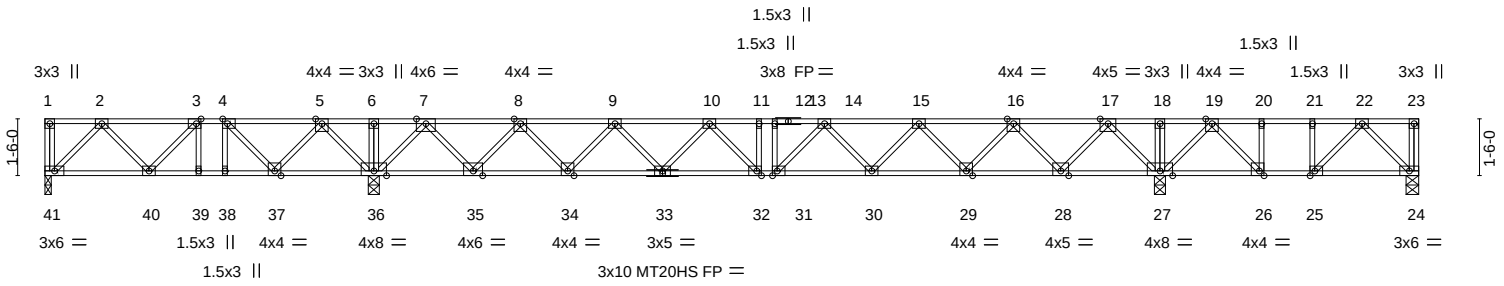
1-3-0 0-6-14 0-3-8 1-2-10

Scale = 1:60.9



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-8-6 29-5-14 36-4-0
8-8-6 20-9-8 6-10-2

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.18	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.29	30-31	>859	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 13-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-2-0, 24=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-221(LC 6), 24=-192(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=360(LC 5), 24=293(LC 5), 36=2450(LC 16), 27=2100(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-331/556, 3-4=-284/1010, 4-5=0/1603, 5-6=0/2843, 6-7=0/2843, 7-8=0/548, 8-9=-1296/0, 9-10=-2350/0, 10-11=-2865/0, 11-12=-2865/0, 12-14=-2865/0, 14-15=-2606/0, 15-16=-1803/0, 16-17=-409/0, 17-18=0/1833, 18-19=0/1833, 19-20=-176/672, 20-21=-176/672, 21-22=-176/672
BOT CHORD 40-41=-225/316, 39-40=-1010/284, 38-39=-1010/284, 37-38=-1010/284, 36-37=-2102/0, 35-36=-1499/0, 34-35=0/607, 33-34=0/1962, 32-33=0/2717, 31-32=0/2865, 30-31=0/2855, 29-30=0/2342, 28-29=0/1247, 27-28=-630/0, 26-27=-1268/0, 25-26=-672/176
WEBS 2-41=-447/319, 2-40=-491/23, 5-36=-1298/0, 5-37=0/953, 4-37=-1082/0, 3-40=0/658, 3-39=-442/0, 4-38=0/456, 7-36=-1902/0, 7-35=0/1490, 8-35=-1466/0, 8-34=0/1050, 9-34=-1013/0, 9-33=0/598, 10-33=-570/0, 17-27=-1713/0, 17-28=0/1324, 16-28=-1275/0, 16-29=0/856, 15-29=-829/0, 15-30=0/417, 14-30=-377/0, 14-31=-257/275, 10-32=-87/443, 19-27=-998/0, 19-26=0/1029, 22-24=-303/321, 22-25=-645/0, 21-25=0/339, 20-26=-563/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 41 and 192 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 16,2021

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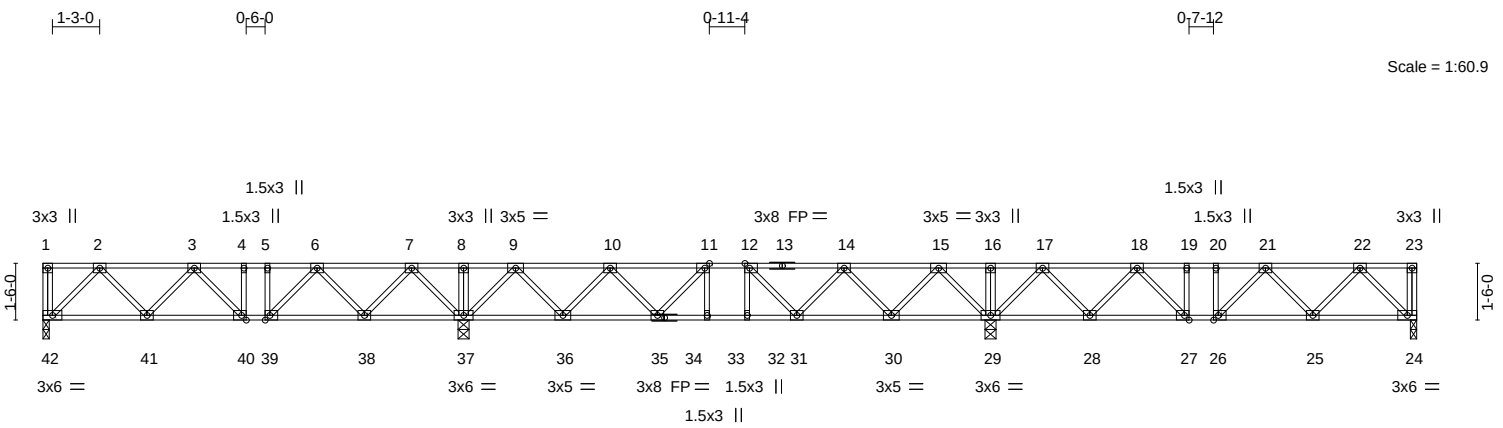
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F23	Floor	14	1	I49293194
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:49 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-StPDVPSBdoGE53DV8wT?C?y7s9K0ieGe8MKKtPy8eN8



	11-1-8	25-0-12	36-4-0
	11-1-8	13-11-4	11-3-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=623(LC 5), 37=1841(LC 3), 29=1842(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/11, 4-5=-1012/11, 5-6=-1012/11, 6-7=-379/466, 7-8=0/1431, 8-9=0/1431, 9-10=-261/291, 10-11=-990/12, 11-12=-1196/0, 12-14=-996/12, 14-15=-275/291, 15-16=0/1414, 16-17=0/1414, 17-18=-393/446, 18-19=-1049/0, 19-20=-1049/0, 20-21=-1049/0, 21-22=-839/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-11/1012, 38-39=-214/804, 37-38=-731/0, 36-37=-568/0, 35-36=-102/774, 33-35=0/1196, 32-33=0/1196, 31-32=0/1196, 30-31=-102/785, 29-30=-558/0, 28-29=-709/0, 27-28=-194/826, 26-27=0/1049, 25-26=0/1076, 24-25=0/567
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1164/0, 7-38=0/756, 6-38=-743/0, 6-39=0/513, 3-40=-295/0, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 17-29=-1171/0, 17-28=0/761, 18-28=-751/0, 18-27=0/534, 22-24=-802/0, 22-25=0/405, 21-25=-353/13, 21-26=-287/0, 19-27=-259/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F24	Floor	15	1	I49293195
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:15:52 2021 Page 1
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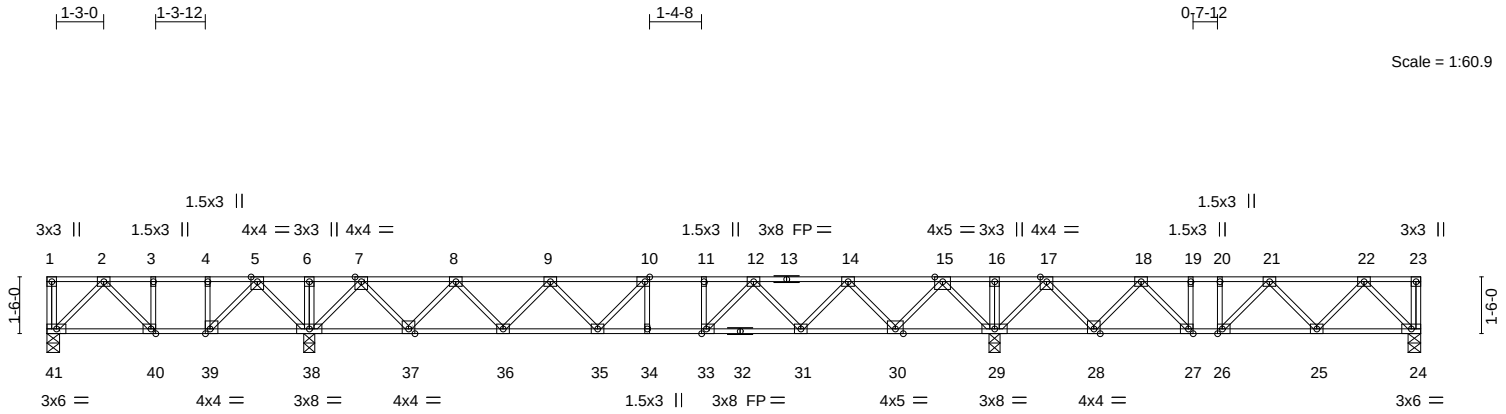

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.22	34-35	>967	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=337(LC 5), 24=590(LC 5), 38=1866(LC 3), 29=2229(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/451, 3-4=-277/451, 4-5=-277/451, 5-6=0/1402, 6-7=0/1402, 7-8=-543/0, 8-9=-1666/0, 9-10=-2223/0, 10-11=-2270/0, 11-12=-2270/0, 12-14=-1442/0, 14-15=-167/275, 15-16=0/2081, 16-17=0/2081, 17-18=-188/985, 18-19=-915/336, 19-20=-915/336, 20-21=-915/336, 21-22=-777/15
BOT CHORD 40-41=-139/255, 39-40=-451/277, 38-39=-919/0, 37-38=-353/0, 36-37=0/1232, 35-36=0/2098, 34-35=0/2270, 33-34=0/2270, 31-33=0/1936, 30-31=0/953, 29-30=-916/0, 28-29=-1323/0, 27-28=-651/653, 26-27=-336/915, 25-26=-106/983, 24-25=0/534
WEBS 2-41=-361/196, 2-40=-453/32, 5-38=-887/0, 5-39=0/847, 4-39=-448/0, 7-38=-1513/0, 7-37=0/1122, 8-37=-1073/0, 8-36=0/666, 9-36=-647/0, 15-29=-1647/0, 15-30=0/1248, 14-30=-1209/0, 14-31=0/765, 12-31=-779/0, 12-33=0/673, 11-33=-286/0, 17-29=-1284/0, 17-28=0/868, 18-28=-869/0, 22-24=-755/0, 22-25=-69/362, 21-25=-306/136, 21-26=-445/0, 18-27=0/692, 19-27=-332/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F25	Floor	9	1	I49293196
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:02 2021 Page 1
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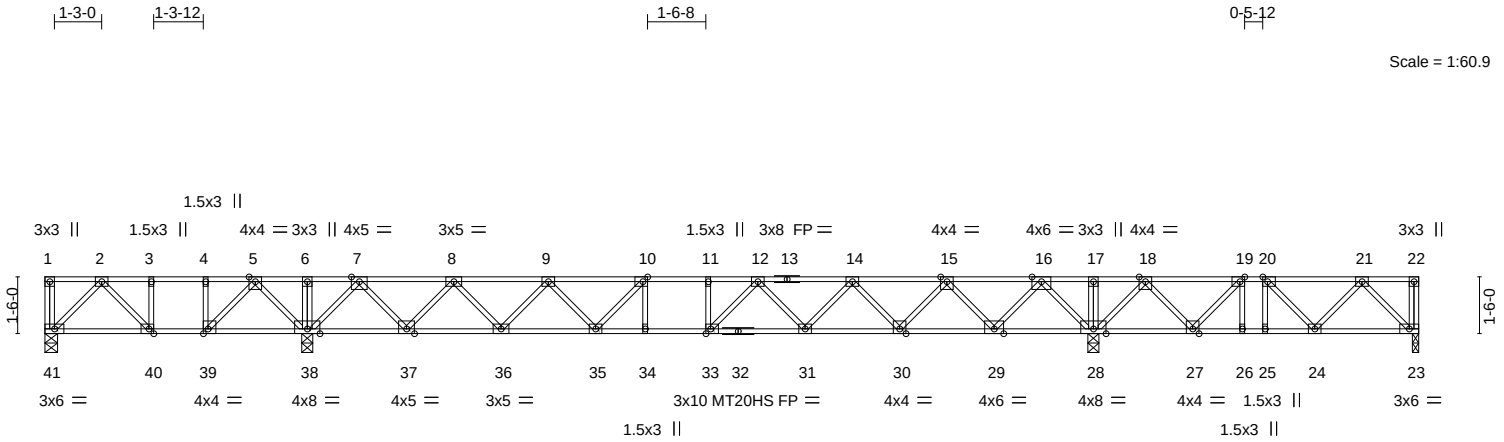

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

	6-11-4	27-8-12	36-4-0
	6-11-4	20-9-8	8-7-4

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>870	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 23=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-166(LC 6), 23=-235(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=307(LC 5), 23=351(LC 5), 38=2071(LC 3), 28=2460(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-203/619, 3-4=-203/619, 4-5=-203/619, 5-6=0/1745, 6-7=0/1745, 7-8=-480/0, 8-9=-1863/0, 9-10=-2648/0, 10-11=-2895/0, 11-12=-2895/0, 12-14=-2357/0, 14-15=-1287/0, 15-16=0/505, 16-17=0/2866, 17-18=0/2866, 18-19=0/1628, 19-20=-266/1038, 20-21=-315/582
BOT CHORD 39-40=-619/203, 38-39=-1193/0, 37-38=-550/0, 36-37=0/1310, 35-36=0/2397, 34-35=0/2895, 33-34=0/2895, 31-33=0/2734, 30-31=0/1961, 29-30=0/588, 28-29=-1514/0, 27-28=-2134/0, 26-27=-1038/266, 25-26=-1038/266, 24-25=-1038/266, 23-24=-242/306
WEBS 2-41=-322/284, 2-40=-606/0, 3-40=-9/319, 5-38=-970/0, 5-39=0/1002, 4-39=-552/0, 7-38=-1700/0, 7-37=0/1310, 8-37=-1261/0, 8-36=0/845, 9-36=-816/0, 9-35=0/451, 10-35=-505/0, 16-28=-1912/0, 16-29=0/1499, 15-29=-1475/0, 15-30=0/1059, 14-30=-1022/0, 14-31=0/607, 12-31=-582/0, 12-33=-39/509, 18-28=-1306/0, 18-27=0/953, 21-23=-432/342, 21-24=-506/13, 20-24=0/660, 19-27=-1067/0, 19-26=0/460, 20-25=-447/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 41 and 235 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F26	Floor	2	1	I49293197
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:05 2021 Page 1
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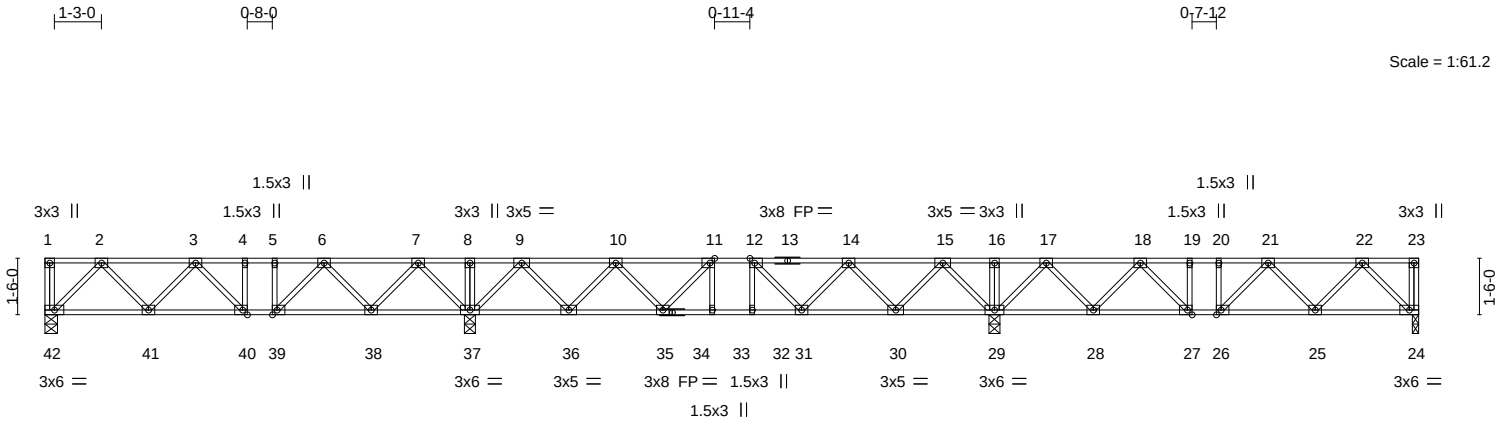

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-4-0, 24=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=624(LC 5), 24=623(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-842/0, 3-4=-1054/0, 4-5=-1054/0, 5-6=-1054/0, 6-7=-395/446, 7-8=0/1414, 8-9=0/1414, 9-10=-279/291, 10-11=-1004/12, 11-12=-1206/0, 12-14=-1003/12, 14-15=-277/291, 15-16=0/1416, 16-17=0/1416, 17-18=-393/449, 18-19=-1049/0, 19-20=-1049/0, 20-21=-1049/0, 21-22=-839/0
BOT CHORD 41-42=0/568, 40-41=0/1080, 39-40=0/1054, 38-39=-193/829, 37-38=-709/0, 36-37=-556/0, 35-36=-102/790, 33-35=0/1206, 32-33=0/1206, 31-32=0/1206, 30-31=-102/789, 29-30=-558/0, 28-29=-712/0, 27-28=-196/826, 26-27=0/1049, 25-26=0/1076, 24-25=0/567
WEBS 2-42=-804/0, 2-41=0/407, 3-41=-354/12, 7-37=-1172/0, 7-38=0/762, 6-38=-753/0, 6-39=0/537, 3-40=-286/0, 5-39=-261/0, 9-37=-1224/0, 9-36=0/839, 10-36=-808/0, 10-35=0/371, 11-35=-365/0, 15-29=-1225/0, 15-30=0/840, 14-30=-809/0, 14-31=0/372, 12-31=-366/0, 17-29=-1171/0, 17-28=0/761, 18-28=-752/0, 22-24=-802/0, 22-25=0/405, 21-25=-353/14, 21-26=-288/0, 18-27=0/535, 19-27=-259/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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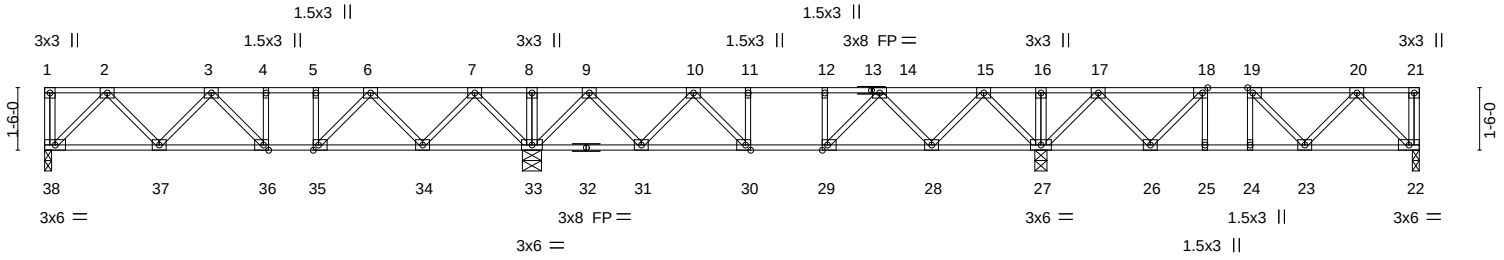
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F27	Floor	5	1	I49293198
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-xKV0HZgTOKXhFqbzBioDxoiDMPRDwoSIHAhHVMy8eMs

1-3-0 1-0-14 1-8-10 0-11-8

Scale = 1:55.3



	11-8-6	23-11-0	33-0-0
	11-8-6	12-2-10	9-1-0

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [19:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.05	36-37	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.08	36-37	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 33=0-5-8, 27=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=666(LC 5), 22=502(LC 5), 33=1713(LC 16), 27=1516(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-922/0, 3-4=-1206/0, 4-5=-1206/0, 5-6=-1206/0, 6-7=-514/221, 7-8=0/1140, 8-9=0/1140, 9-10=-370/235, 10-11=-969/0, 11-12=-969/0, 12-14=-969/0, 14-15=-409/115, 15-16=0/951, 16-17=0/951, 17-18=-383/254, 18-19=-704/17, 19-20=-600/0
BOT CHORD 37-38=0/610, 36-37=0/1197, 35-36=0/1206, 34-35=0/959, 33-34=-458/58, 31-33=-435/0, 30-31=-65/775, 29-30=0/969, 28-29=0/799, 27-28=-288/0, 26-27=-464/83, 25-26=-17/704, 24-25=-17/704, 23-24=-17/704, 22-23=0/455
WEBS 2-38=-863/0, 2-37=0/464, 3-37=-408/0, 7-33=-1159/0, 7-34=0/743, 6-34=-737/0, 6-35=0/545, 5-35=-275/0, 9-33=-1078/0, 9-31=0/668, 10-31=-649/0, 10-30=0/379, 15-27=-1032/0, 15-28=0/629, 14-28=-600/0, 14-29=0/277, 17-27=-924/0, 17-26=0/547, 18-26=-596/0, 20-22=-644/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 22.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

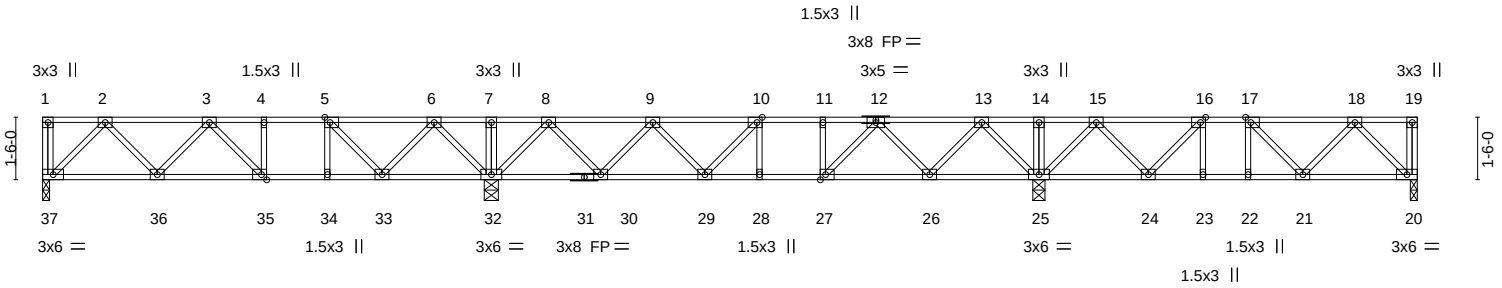
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F28	Floor	1	1	I49293199
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-tjdniFhjwyoPV8lLJ7qh0DnWWD3nOiebkUAOZFy8eMq

1-3-0 1-4-12 1-4-12 0-11-8

Scale = 1:55.3



	10-9-4	23-11-0	33-0-0
	10-9-4	13-1-12	9-1-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [10:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [27:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	35-36	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.12	35-36	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 32=0-4-1, 25=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 37=617(LC 5), 20=510(LC 5), 32=1734(LC 16), 25=1558(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-834/0, 3-4=-990/7, 4-5=-990/7, 5-6=-530/314, 6-7=0/1151, 7-8=0/1151, 8-9=-423/62, 9-10=-1090/0, 10-11=-1229/0, 11-12=-1229/0, 12-13=-546/0, 13-14=0/865, 14-15=0/865, 15-16=-422/183, 16-17=-731/0, 17-18=-617/0
BOT CHORD 36-37=0/562, 35-36=0/1058, 34-35=-7/990, 33-34=-7/990, 32-33=-571/121, 30-32=-342/0, 29-30=0/905, 28-29=0/1229, 27-28=0/1229, 26-27=0/986, 24-25=-376/130, 23-24=0/731, 22-23=0/731, 21-22=0/731, 20-21=0/463
WEBS 2-37=-795/0, 2-36=0/404, 3-36=-333/20, 6-32=-1040/0, 6-33=0/709, 5-33=-808/0, 3-35=-311/0, 13-25=-1099/0, 13-26=0/687, 12-26=-686/0, 12-27=0/416, 8-32=-1154/0, 8-30=0/785, 9-30=-762/0, 9-29=0/308, 10-29=-258/0, 15-25=-903/0, 15-24=0/523, 16-24=-565/0, 18-20=-655/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 37, 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F29	Floor	5	1	I49293200
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:11 2021 Page 1
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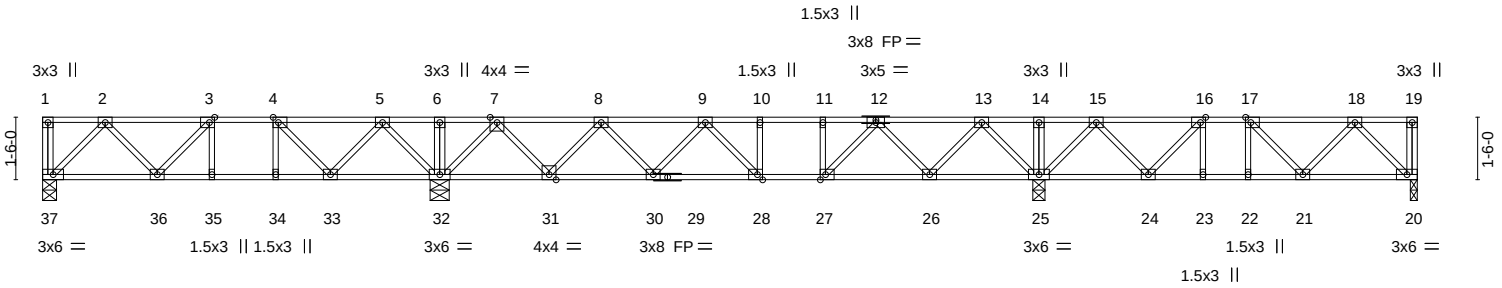
1-3-0 1-4-14 1-4-10 0-11-8

Scale = 1:55.3



9-6-6 23-11-0 33-0-0
9-6-6 14-4-10 9-1-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	28-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	28-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 20=0-2-0, 32=0-5-8, 25=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 37=521(LC 5), 20=506(LC 5), 32=1775(LC 16), 25=1657(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/0, 3-4=-743/145, 4-5=-366/475, 5-6=0/1337, 6-7=0/1337, 7-8=-435/40, 8-9=-1247/0, 9-10=-1434/0, 10-11=-1434/0, 11-12=-1434/0, 12-13=-577/0, 13-14=0/975, 14-15=0/975, 15-16=-400/267, 16-17=-716/26, 17-18=-608/0
BOT CHORD 36-37=0/478, 35-36=-145/743, 34-35=-145/743, 33-34=-145/743, 32-33=-740/27, 31-32=-440/0, 30-31=0/983, 28-30=0/1473, 27-28=0/1434, 26-27=0/1082, 24-25=-477/104, 23-24=-26/716, 22-23=-26/716, 21-22=-26/716, 20-21=0/459
WEBS 2-37=-676/0, 5-32=-991/0, 5-33=0/643, 4-33=-746/0, 13-25=-1210/0, 13-26=0/787, 12-26=-797/0, 12-27=0/575, 11-27=-298/0, 7-32=-1272/0, 7-31=0/886, 8-31=-868/0, 8-30=0/442, 9-30=-375/0, 15-25=-916/0, 15-24=0/538, 16-24=-592/0, 18-20=-648/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F30	Floor	2	1	I49293201
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:19 2021 Page 1
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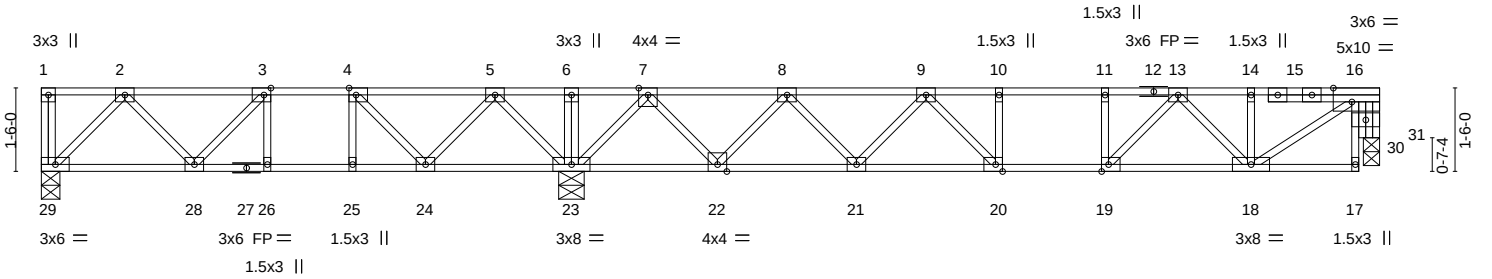

9-6-6 24-0-12
9-6-6 14-6-6

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:0-4-0,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.10	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.16	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	31	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 135 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 16-18: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 29=0-4-0, 23=0-5-8, 31=0-3-8
Max Grav 29=516(LC 3), 23=1868(LC 1), 31=794(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-626/26, 3-4=-724/203, 4-5=-339/559, 5-6=0/1437, 6-7=0/1437, 7-8=-493/0, 8-9=-1476/0, 9-10=-1837/0, 10-11=-1837/0, 11-13=-1837/0, 13-14=-1048/0, 14-16=-1051/0
BOT CHORD 28-29=0/473, 26-28=-203/724, 25-26=-203/724, 24-25=-203/724, 23-24=-841/0, 22-23=-449/0, 21-22=0/1128, 20-21=0/1780, 19-20=0/1837, 18-19=0/1481
WEBS 2-29=-669/0, 3-28=-141/257, 5-23=-1014/0, 5-24=0/672, 4-24=-788/0, 4-25=0/267, 7-23=-1398/0, 7-22=0/1007, 8-22=-984/0, 8-21=0/554, 9-21=-501/0, 9-20=-10/340, 16-18=0/1144, 13-18=-627/0, 13-19=0/547, 11-19=-303/0, 16-31=-825/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F31	Floor	2	1	I49293202
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:21 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-W1LJDMrF5elix_gf0e2VVlHcM2DcC8NMVL40_Yy8eMe

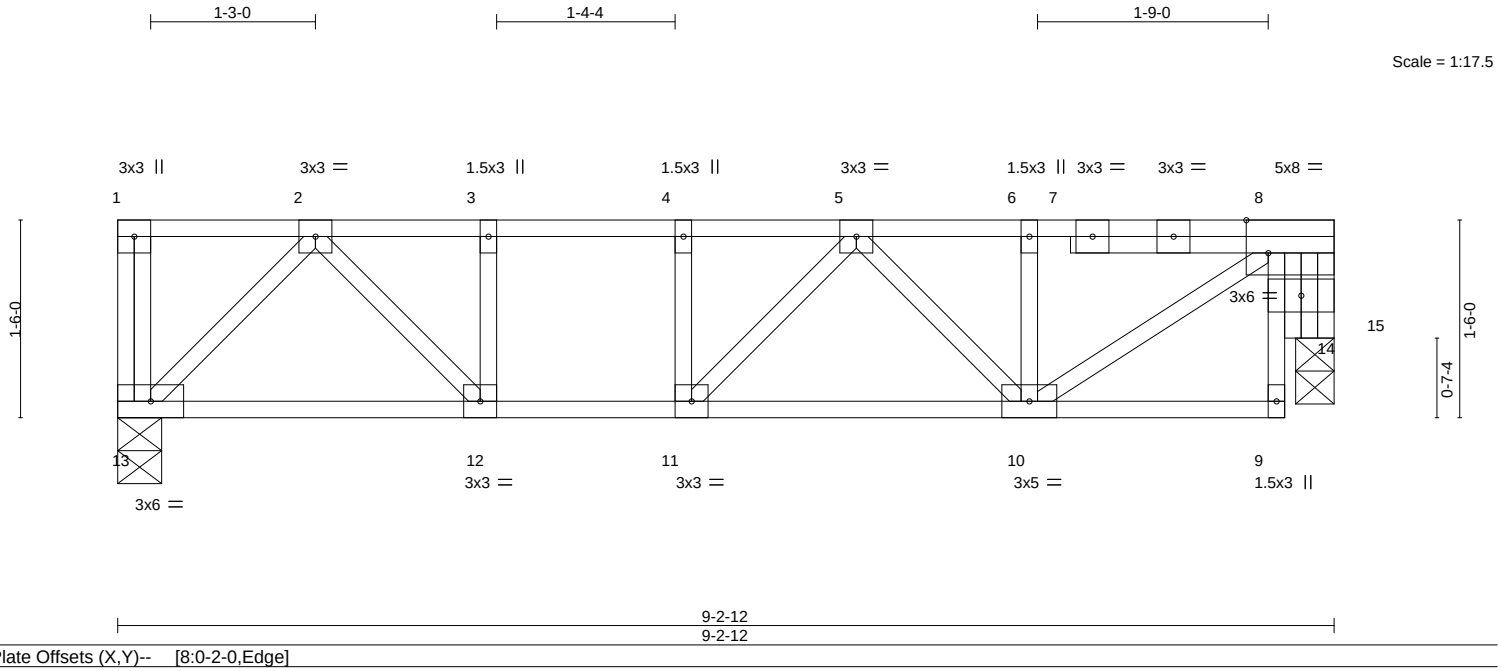

Plate Offsets (X,Y)-- [8:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.08	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-4-0, 15=0-3-8
Max Grav 13=577(LC 1), 15=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/0, 3-4=-869/0, 4-5=-869/0, 5-6=-688/0, 6-8=-692/0
BOT CHORD 12-13=0/500, 11-12=0/869, 10-11=0/886
WEBS 8-10=0/737, 5-10=-286/0, 2-13=-707/0, 2-12=0/547, 3-12=-301/0, 8-15=-576/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293203
PRYOR-F2C	F46	Floor	7	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:24 2021 Page 1
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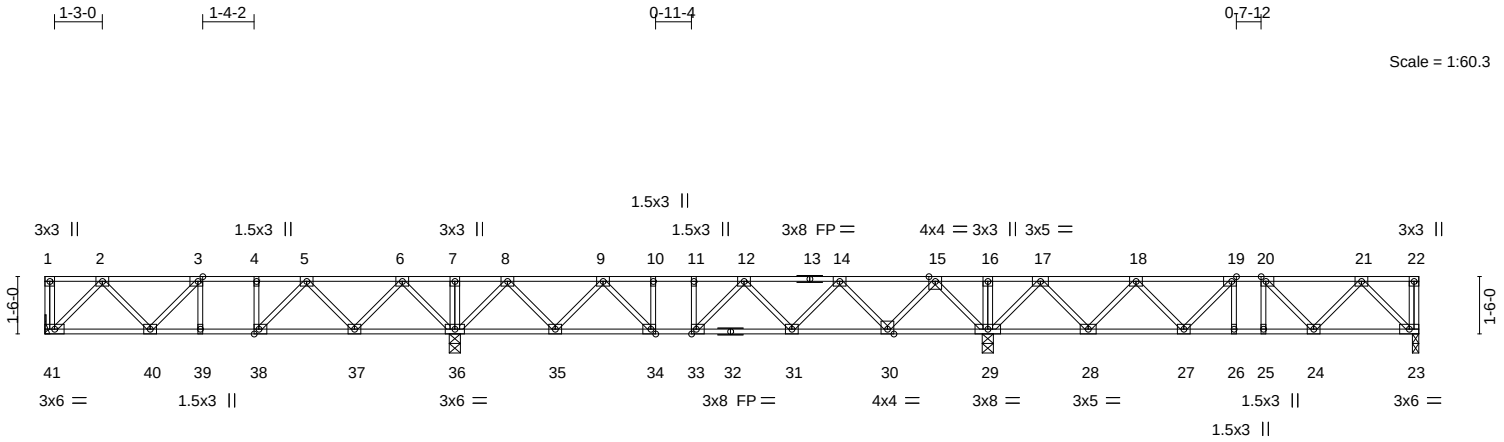

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.06	31-33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.09	31-33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=604(LC 5), 23=605(LC 5), 36=1720(LC 3), 29=1930(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/0, 3-4=-1013/0, 4-5=-1013/0, 5-6=-465/241, 6-7=0/1124, 7-8=0/1124, 8-9=-468/183, 9-10=-1202/0, 10-11=-1202/0, 11-12=-1202/0, 12-14=-999/37, 14-15=-172/378, 15-16=0/1656, 16-17=0/1656, 17-18=-291/590, 18-19=-905/145, 19-20=-1041/0, 20-21=-798/0
BOT CHORD 40-41=0/553, 39-40=0/1013, 38-39=0/1013, 37-38=-27/849, 36-37=-462/65, 35-36=-360/20, 34-35=-24/932, 33-34=0/1202, 31-33=0/1231, 30-31=-159/729, 29-30=-737/0, 28-29=-881/0, 27-28=-322/748, 26-27=0/1041, 25-26=0/1041, 24-25=0/1041, 23-24=0/549
WEBS 21-23=-777/0, 21-24=-8/370, 20-24=-351/76, 17-29=-1206/0, 17-28=0/825, 18-28=-793/0, 18-27=0/379, 19-27=-422/0, 15-29=-1300/0, 15-30=0/912, 14-30=-887/0, 14-31=0/458, 12-31=-409/0, 8-36=-1156/0, 8-35=0/741, 9-35=-736/0, 9-34=0/456, 2-41=-781/0, 2-40=0/362, 3-40=-313/39, 6-36=-1072/0, 6-37=0/663, 5-37=-658/0, 5-38=0/439

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F47	Floor	5	1	I49293204
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:26 2021 Page 1
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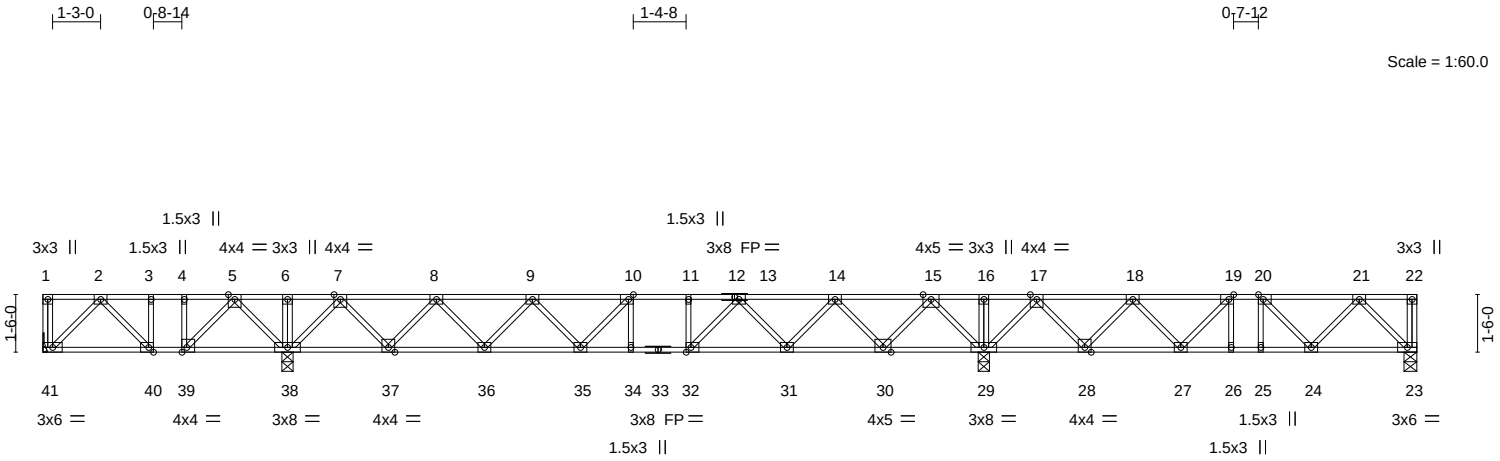

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-4-6	24-5-14	35-9-2
6-4-6	18-1-8	11-3-4

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [32:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.13	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.20	34-35	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 198 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-236(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=256(LC 5), 23=584(LC 5), 38=1991(LC 3), 29=2195(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-122/707, 3-4=-122/707, 4-5=-122/707, 5-6=0/1810, 6-7=0/1810, 8-9=-1347/0, 9-10=-1968/0, 10-11=-2070/0, 11-13=-2070/0, 13-14=-1330/0, 14-15=-117/336, 15-16=0/2095, 16-17=0/2095, 17-18=-164/962, 18-19=-815/408, 19-20=-976/148, 20-21=-759/22
BOT CHORD 40-41=-272/178, 39-40=-707/122, 38-39=-1264/0, 37-38=-718/0, 36-37=0/870, 35-36=0/1808, 34-35=0/2070, 32-34=0/2070, 31-32=0/1786, 30-31=-22/871, 29-30=-966/0, 28-29=-1307/0, 27-28=-642/638, 26-27=-148/976, 25-26=-148/976, 24-25=-148/976, 23-24=0/530
WEBS 2-41=-252/384, 2-40=-631/0, 3-40=0/317, 5-38=-1006/0, 5-39=0/939, 4-39=-494/0, 7-38=-1560/0, 7-37=0/1168, 8-37=-1123/0, 8-36=0/715, 9-36=-691/0, 9-35=0/265, 15-29=-1597/0, 15-30=0/1202, 14-30=-1163/0, 14-31=0/721, 13-31=-724/0, 13-32=0/615, 11-32=-274/0, 21-23=-749/0, 21-24=-94/340, 20-24=-314/183, 17-29=-1282/0, 17-28=0/897, 18-28=-863/0, 18-27=0/468, 19-27=-533/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 41.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F48	Floor	4	1	I49293205
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:28 2021 Page 1
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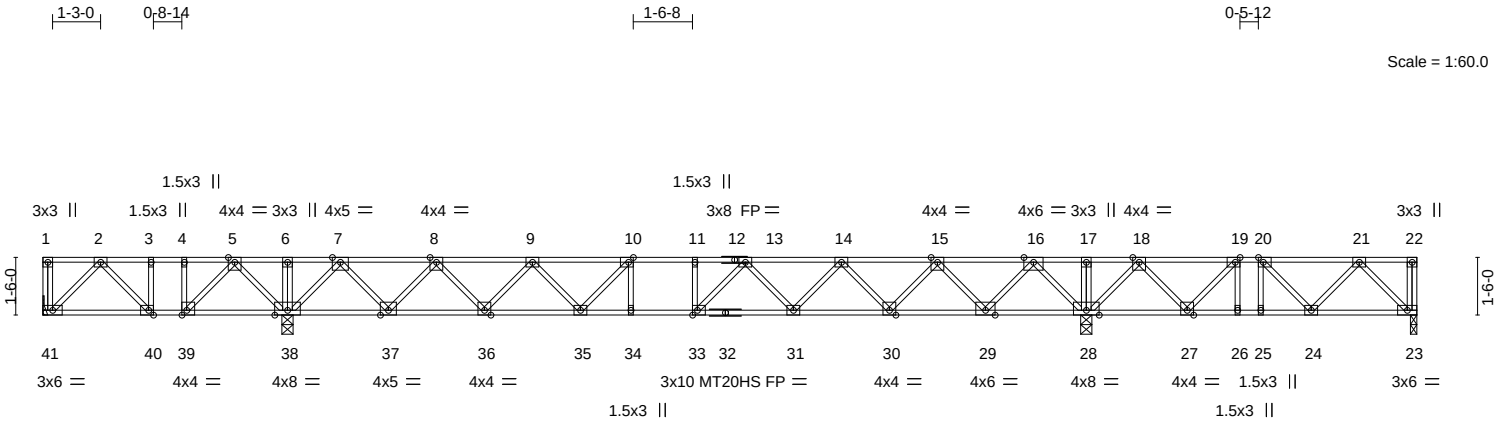

FASTEN TRUSS TO BEARING FOR
THE UPLIFT REACTION SHOWN
WHILE PERMITTING NO UPWARD
MOVEMENT OF THE BEARING.

6-4-6	27-1-14	35-9-2
6-4-6	20-9-8	8-7-4

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.17	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.27	31-33	>922	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-328(LC 6), 23=-220(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 41 except 23=357(LC 5), 38=2225(LC 3), 28=2399(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-26/915, 3-4=-26/915, 4-5=-26/915, 5-6=0/2228, 6-7=0/2228, 8-9=-1461/0, 9-10=-2347/0, 10-11=-2657/0, 11-13=-2657/0, 13-14=-2225/0, 14-15=-1226/0, 15-16=0/488, 16-17=0/2765, 17-18=0/2765, 18-19=0/1563, 19-20=-284/991, 20-21=-326/553
BOT CHORD 40-41=-361/136, 39-40=-915/26, 38-39=-1592/0, 37-38=-997/0, 36-37=0/870, 35-36=0/2040, 34-35=0/2657, 33-34=0/2657, 31-33=0/2559, 30-31=0/1864, 29-30=0/565, 28-29=-1456/0, 27-28=-2054/0, 26-27=-991/284, 25-26=-991/284, 24-25=-991/284, 23-24=-227/311
WEBS 2-41=-193/510, 2-40=-802/0, 5-38=-1127/0, 5-39=0/1112, 4-39=-597/0, 3-40=0/420, 7-38=-1756/0, 7-37=0/1364, 8-37=-1319/0, 8-36=0/899, 9-36=-867/0, 9-35=0/488, 10-35=-557/0, 16-28=-1851/0, 16-29=0/1440, 15-29=-1415/0, 15-30=0/999, 14-30=-964/0, 14-31=0/551, 13-31=-514/0, 13-33=-90/428, 18-28=-1284/0, 18-27=0/930, 19-27=-1039/0, 19-26=0/448, 21-23=-440/321, 21-24=-484/22, 20-24=0/634, 20-25=-435/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 41 and 220 lb uplift at joint 23.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F50	Floor	3	1	I49293206
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:32 2021 Page 1
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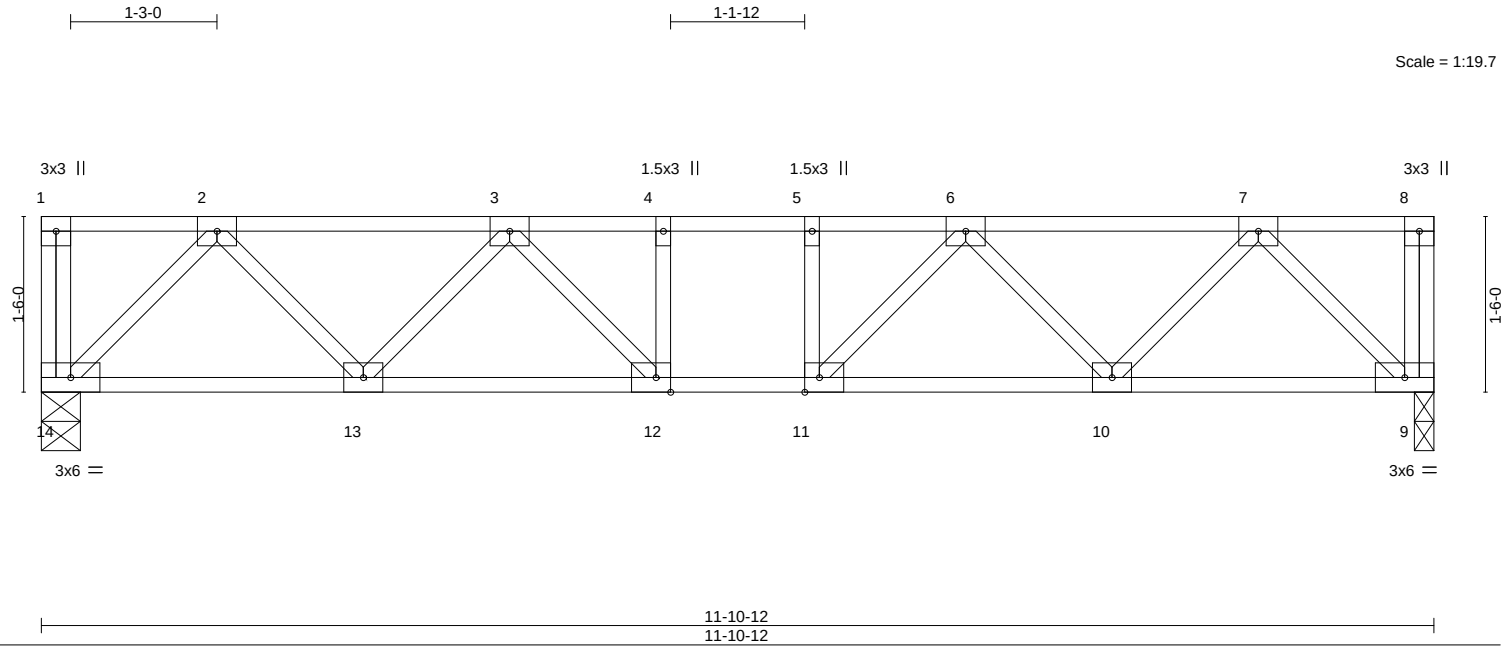

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

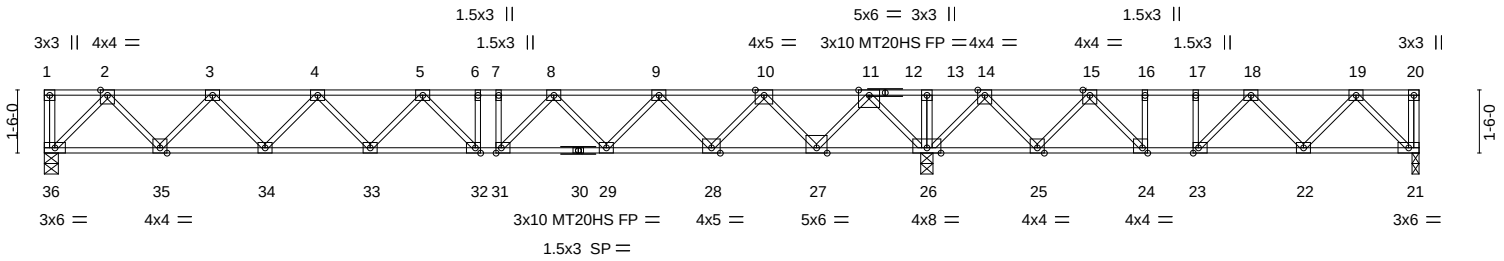
Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F51	Floor	4	1	I49293207
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-eXdDyo?P1dxs?_99GtnYXUJmcIZrluDGUskCyIy8eMR

1-3-0 0-4-7 1-1-0

Scale = 1:54.8



20-11-15 32-8-7
20-11-15 11-8-8

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.23	32-33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.37	32-33	>673	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	26	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
21-30: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 36=0-4-0, 21=0-2-0, 26=0-3-8
Max Uplift 21=-57(LC 3)
Max Grav 36=1164(LC 3), 21=570(LC 4), 26=2704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1869/0, 3-4=-3068/0, 4-5=-3677/0, 5-6=-3676/0, 6-7=-3676/0, 7-8=-3676/0, 8-9=-2883/0, 9-10=-1589/0, 10-11=0/712, 11-13=0/3187, 13-14=0/3187, 14-15=0/1855, 15-16=-805/851, 16-17=-805/851, 17-18=-805/851, 18-19=-746/219
BOT CHORD 35-36=0/1103, 34-35=0/2608, 33-34=0/3511, 32-33=0/3810, 31-32=0/3676, 29-31=0/3377, 28-29=0/2377, 27-28=-41/776, 26-27=-1702/0, 25-26=-2303/0, 24-25=-1386/423, 23-24=-851/805, 22-23=-425/929, 21-22=-81/515
WEBS 2-36=-1560/0, 2-35=0/1138, 3-35=-1099/0, 3-34=0/684, 4-34=-657/0, 4-33=0/272, 5-32=-449/133, 11-26=-2100/0, 11-27=0/1673, 10-27=-1651/0, 10-28=0/1236, 9-28=-1196/0, 9-29=0/779, 8-29=-761/0, 8-31=0/650, 7-31=-302/0, 14-26=-1492/0, 14-25=0/1050, 15-25=-1090/0, 15-24=0/1049, 19-21=-729/114, 19-22=-206/343, 18-22=-271/306, 18-23=-709/0, 17-23=0/320, 16-24=-530/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 21.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F52	Floor	2	1	I49293208
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:34 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-eXdDyo?P1dxs?_99GtnYXUJkMIcMl0QGUskCyIy8eMR

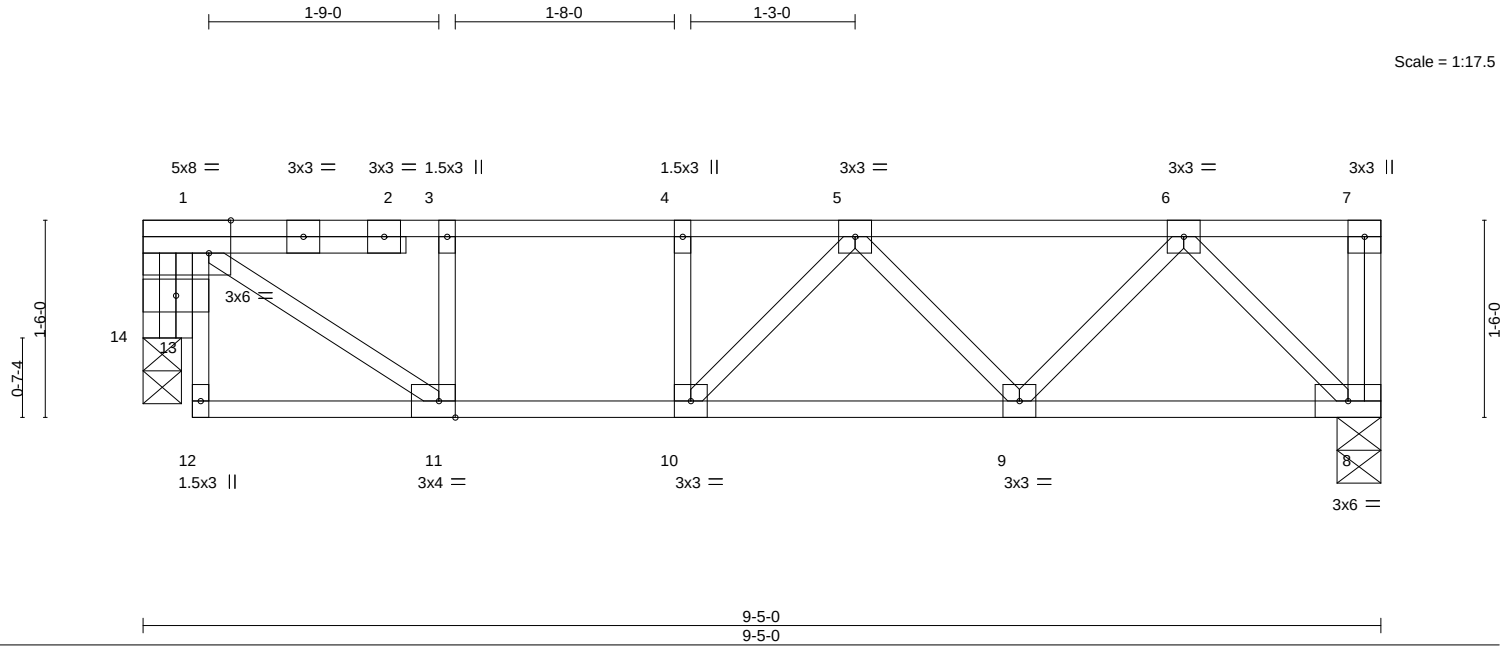

Plate Offsets (X,Y)-- [1:0-2-0,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.14	9-10	>770	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-11: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 14=0-3-8
Max Grav 8=589(LC 1), 14=562(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-841/0, 3-4=-840/0, 4-5=-840/0, 5-6=-787/0
BOT CHORD 10-11=0/840, 9-10=0/976, 8-9=0/535
WEBS 3-11=-416/0, 6-8=-757/0, 6-9=0/374, 5-9=-281/0, 1-11=0/961, 1-14=-572/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F53	Floor	1	1	I49293209
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:36 2021 Page 1
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1-3-0 0-3-11 1-1-12

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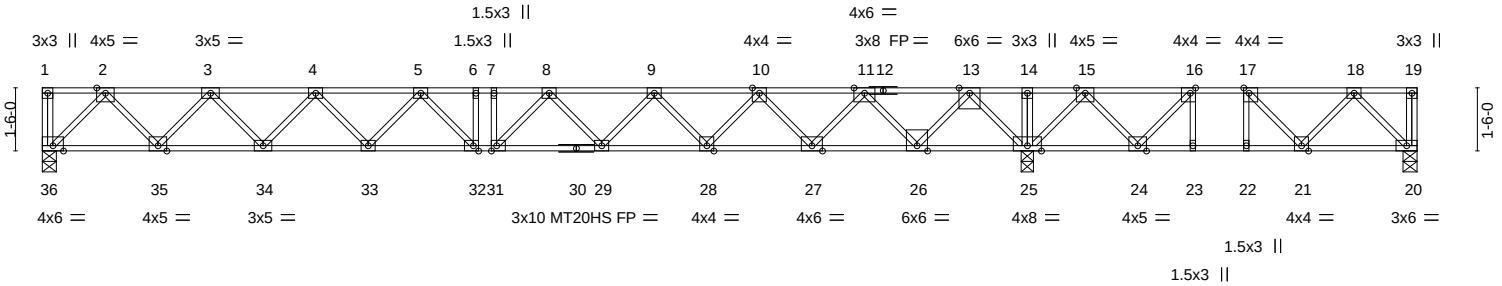

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

23-5-3 32-8-7
23-5-3 9-3-4

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.34	32	>833	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.54	32	>519	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	25	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 179 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 12-19: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 20-30: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 36=0-4-0, 20=0-4-0, 25=0-3-8
Max Uplift 20=-386(LC 3)
Max Grav 36=1276(LC 10), 20=333(LC 4), 25=2990(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2083/0, 3-4=-3487/0, 4-5=-4296/0, 5-6=-4529/0, 6-7=-4529/0, 7-8=-4529/0, 8-9=-3986/0, 9-10=-2905/0, 10-11=-1229/0, 11-13=0/1259, 13-14=0/4226, 14-15=0/4226, 15-16=0/2601, 16-17=-132/1655, 17-18=-275/877
BOT CHORD 35-36=0/1215, 34-35=0/2924, 33-34=0/4030, 32-33=0/4534, 31-32=0/4529, 29-31=0/4367, 28-29=0/3587, 27-28=0/2202, 26-27=-294/305, 25-26=-2562/0, 24-25=-3310/0, 23-24=-1655/132, 22-23=-1655/132, 21-22=-1655/132, 20-21=-359/302
WEBS 2-36=-1719/0, 2-35=0/1290, 3-35=-1251/0, 3-34=0/837, 4-34=-807/0, 4-33=0/413, 5-33=-389/0, 5-32=-318/302, 13-25=-2352/0, 13-26=0/1937, 11-26=-1920/0, 11-27=0/1503, 10-27=-1465/0, 10-28=0/1065, 9-28=-1032/0, 9-29=0/612, 8-29=-585/0, 8-31=-114/507, 15-25=-1522/0, 15-24=0/1282, 16-24=-1615/0, 18-20=-427/508, 18-21=-771/0, 17-21=0/1126, 17-22=-644/0, 16-23=0/668

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F54	Floor	4	1	I49293210
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:37 2021 Page 1
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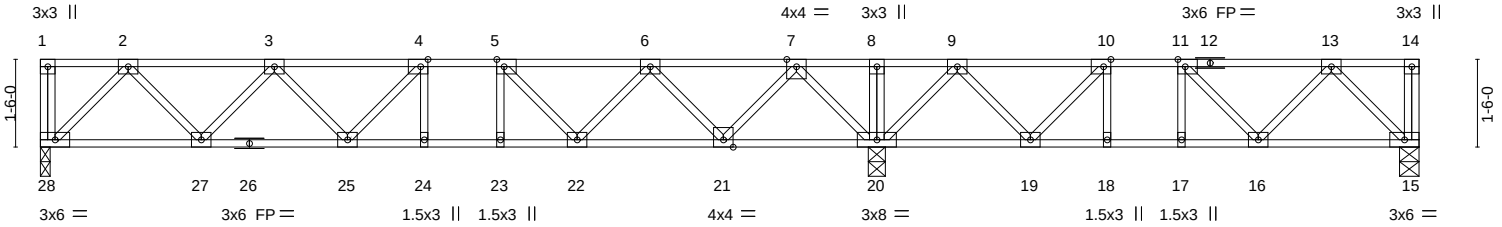
1-3-0 1-2-2 1-1-12

Scale = 1:39.4



14-3-10 23-6-14
14-3-10 9-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.08	24	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.13	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 28=0-2-0, 15=0-4-0, 20=0-3-8
Max Grav 28=828(LC 10), 15=504(LC 4), 20=1805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1233/0, 3-4=-1812/0, 4-5=-1900/0, 5-6=-1551/0, 6-7=-625/0, 7-8=0/1239, 8-9=0/1239, 9-10=-348/421, 10-11=-700/124, 11-13=-604/0
BOT CHORD 27-28=0/765, 25-27=0/1678, 24-25=0/1900, 23-24=0/1900, 22-23=0/1900, 21-22=0/1231, 20-21=-271/0, 19-20=-670/25, 18-19=-124/700, 17-18=-124/700, 16-17=-124/700, 15-16=0/459
WEBS 2-28=-1081/0, 2-27=0/696, 3-27=-662/0, 7-20=-1368/0, 7-21=0/972, 6-21=-935/0, 6-22=0/519, 5-22=-590/0, 9-20=-967/0, 9-19=0/606, 10-19=-684/0, 13-15=-649/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F55	Floor	1	1	I49293211
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:39 2021 Page 1
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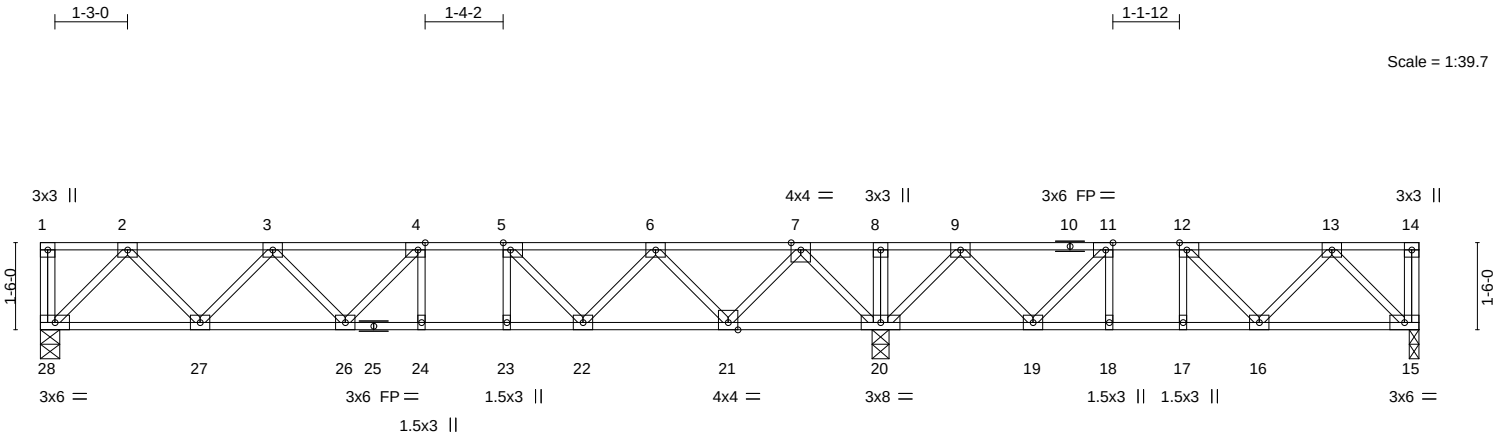

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.09	24-26	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.14	24-26	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 28=0-4-0, 15=0-2-0, 20=0-3-8
Max Grav 28=840(LC 10), 15=505(LC 4), 20=1814(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1255/0, 3-4=-1856/0, 4-5=-1951/0, 5-6=-1586/0, 6-7=-642/0, 7-8=0/1232, 8-9=0/1232, 9-11=-352/421, 11-12=-703/124, 12-13=-606/0
BOT CHORD 27-28=0/776, 26-27=0/1712, 24-26=0/1951, 23-24=0/1951, 22-23=0/1951, 21-22=0/1256, 20-21=-265/7, 19-20=-670/30, 18-19=-124/703, 17-18=-124/703, 16-17=-124/703, 15-16=0/460
WEBS 2-28=-1097/0, 2-27=0/712, 3-27=-679/0, 7-20=-1381/0, 7-21=0/983, 6-21=-945/0, 6-22=0/533, 5-22=-611/0, 9-20=-967/0, 9-19=0/605, 11-19=-683/0, 13-15=-650/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F56	Floor	2	1	I49293212
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:40 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Th?VDr3AcTi?jvdId8uynlZn3jcU9dD9soBX9yy8eML

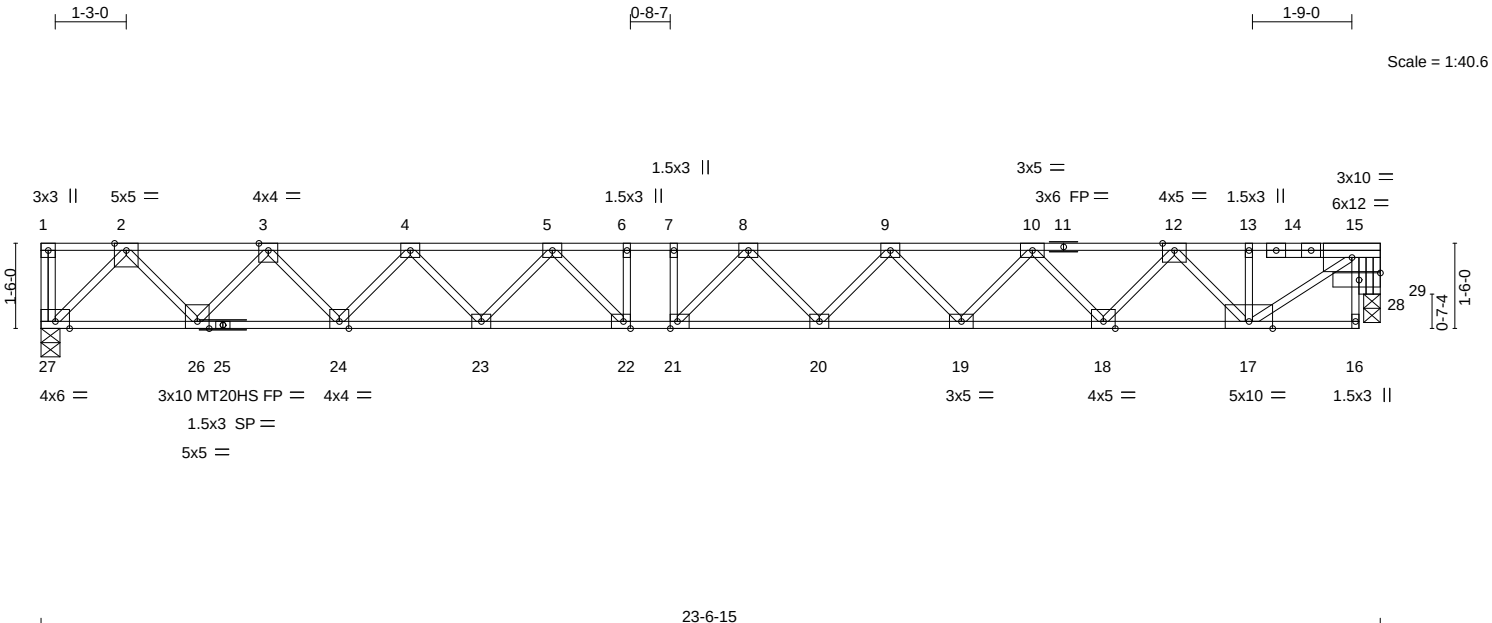

Plate Offsets (X,Y)-- [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.45	20-21	>617	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.74	20-21	>379	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.08	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 132 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
16-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
15-16,15-17: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 24-26.

REACTIONS. (size) 27=0-4-0, 29=0-3-8
Max Grav 27=1509(LC 1), 29=1482(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2526/0, 3-4=-4354/0, 4-5=-5576/0, 5-6=-6302/0, 6-7=-6302/0, 7-8=-6302/0, 8-9=-6155/0, 9-10=-5395/0, 10-12=-4043/0, 12-13=-2084/0, 13-15=-2087/0
BOT CHORD 26-27=0/1447, 24-26=0/3579, 23-24=0/5106, 22-23=0/6036, 21-22=0/6302, 20-21=0/6360, 19-20=0/5912, 18-19=0/4860, 17-18=0/3203
WEBS 2-27=-2046/0, 2-26=0/1604, 3-26=-1565/0, 3-24=0/1153, 4-24=-1117/0, 4-23=0/699, 5-23=-683/0, 5-22=-73/666, 6-22=-300/1, 15-17=0/2300, 12-17=-1621/0, 12-18=0/1249, 10-18=-1214/0, 10-19=0/795, 9-19=-768/0, 9-20=0/421, 8-20=-405/0, 8-21=-404/336, 15-29=-1538/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 16,2021

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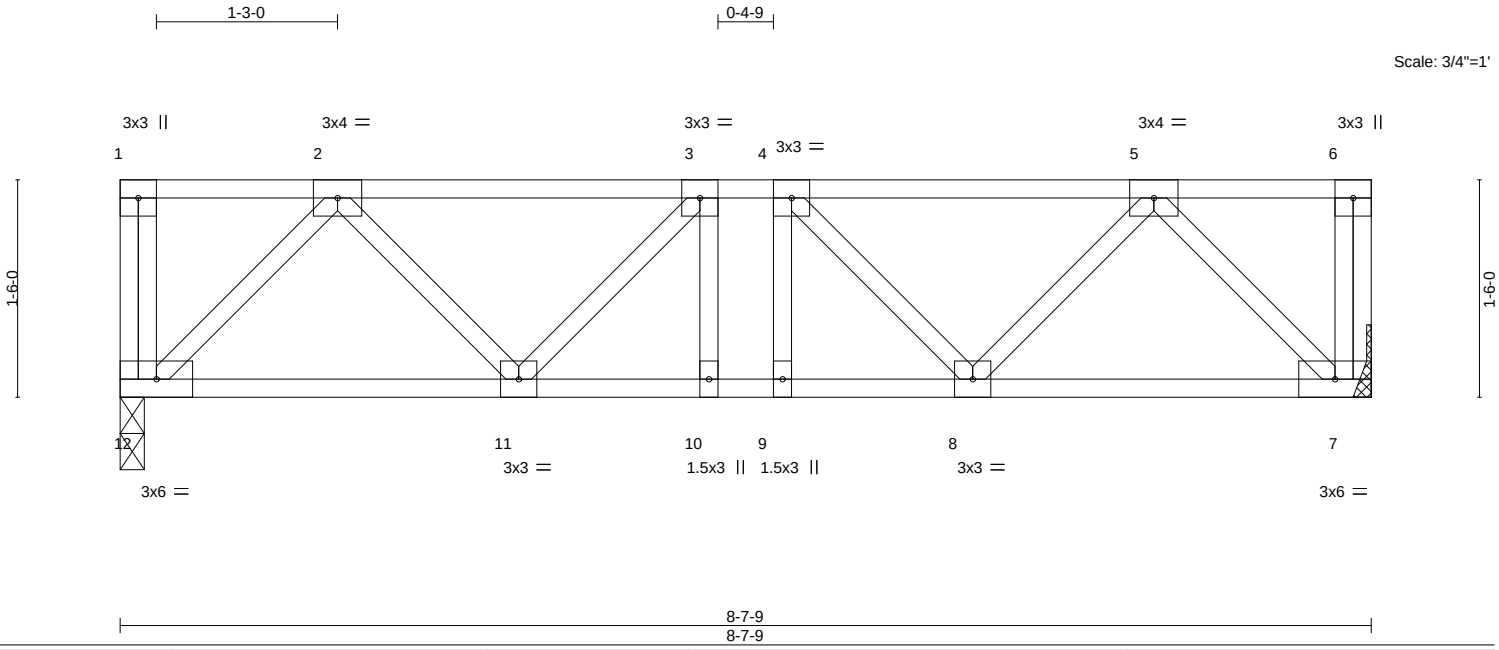
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F57	Floor	7	1	I49293213
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:41 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-xtZtQB4oNnqsK3CVBrPBJz6?7601uAMI5Sw4iOy8eMK



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 53 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=Mechanical
Max Grav 12=1048(LC 1), 7=1048(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1311/0, 3-4=-1664/0, 4-5=-1311/0
BOT CHORD	11-12=0/950, 10-11=0/1664, 9-10=0/1664, 8-9=0/1664, 7-8=0/950
WEBS	2-12=-1344/0, 2-11=0/537, 3-11=-511/0, 3-10=-292/297, 5-7=-1344/0, 5-8=0/537, 4-8=-511/0, 4-9=-292/297

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	F58	Floor	4	1	I49293214
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:42 2021 Page 1
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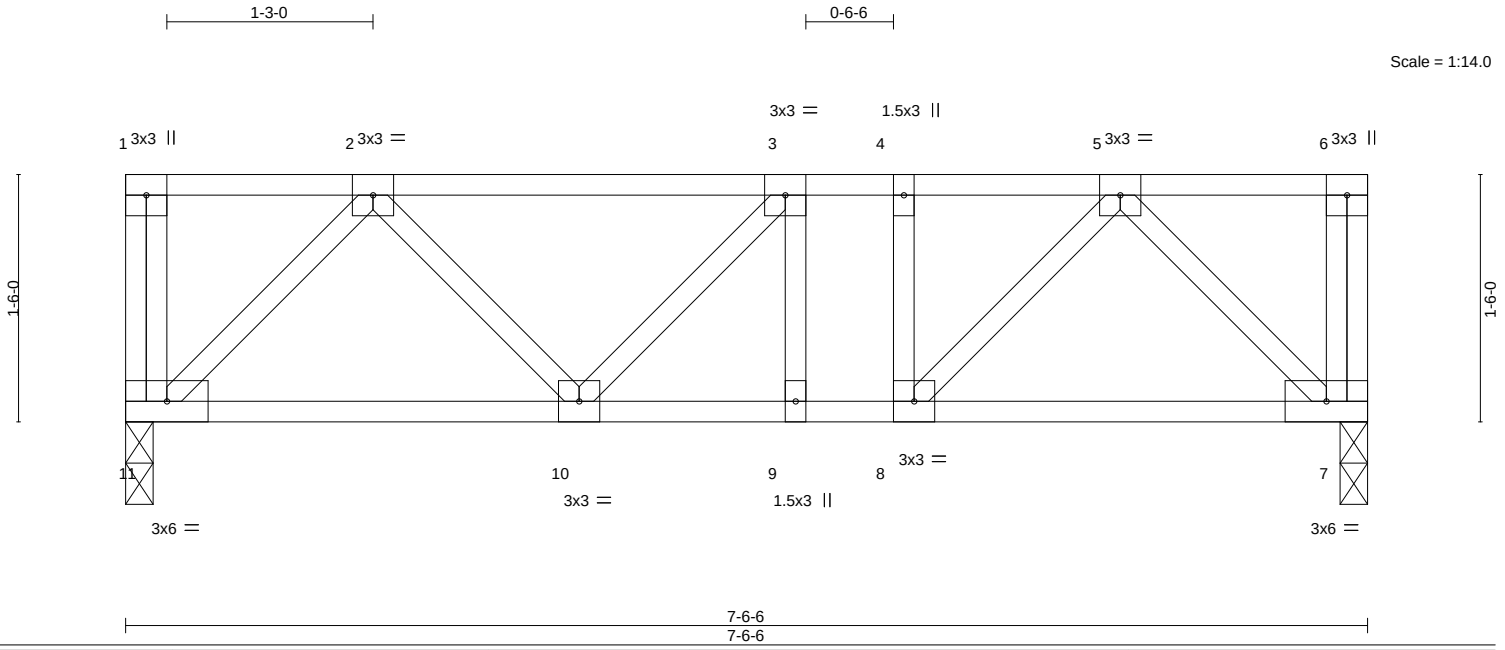

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 47 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-2-0
Max Grav 11=910(LC 1), 7=910(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1047/0, 3-4=-1197/0, 4-5=-1197/0
BOT CHORD	10-11=0/826, 9-10=0/1197, 8-9=0/1197, 7-8=0/773
WEBS	2-11=-1167/0, 2-10=0/329, 3-10=-284/0, 3-9=-296/32, 5-7=-1093/0, 5-8=0/639

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	FGR	FLOOR GIRDER	13	1	I49293215
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:57 2021 Page 1
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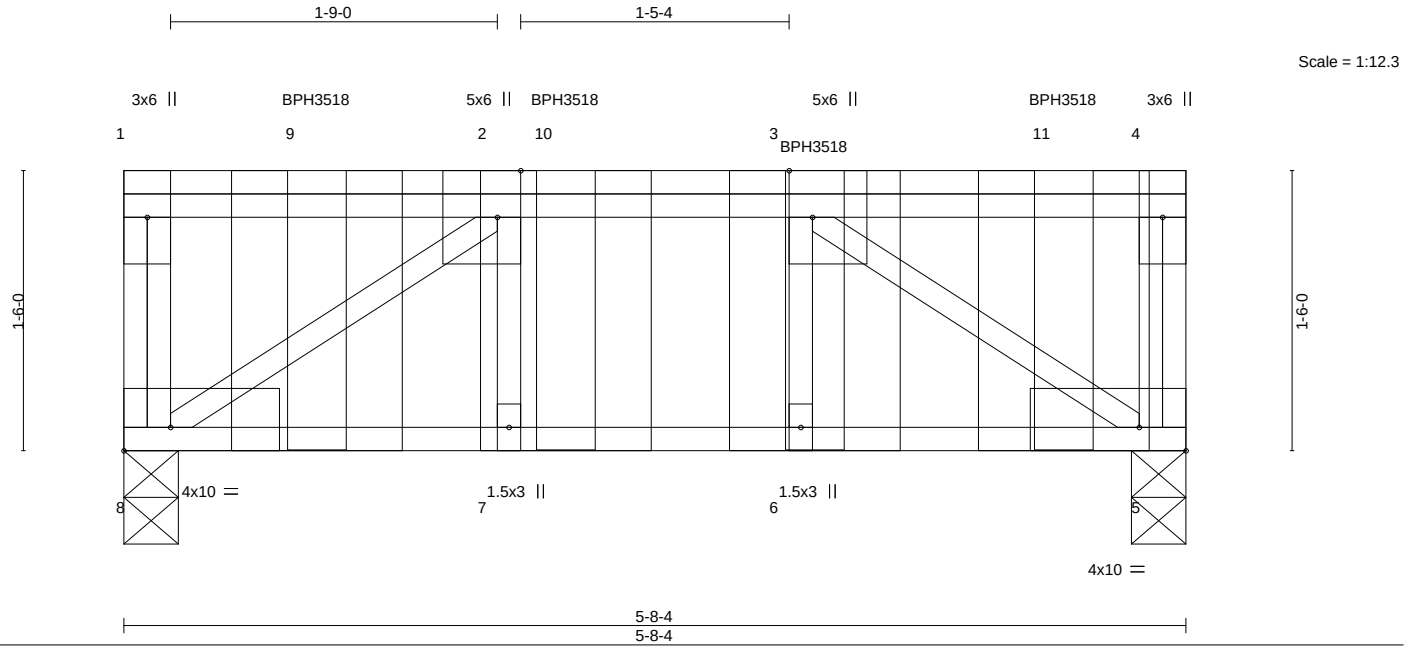

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.05	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.06	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2325(LC 1), 5=2790(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-511/0, 4-5=-958/0, 2-3=-2721/0
BOT CHORD 7-8=0/2721, 6-7=0/2721, 5-6=0/2721
WEBS 3-5=-3286/0, 2-8=-3286/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 1-0-6 from the left end to 5-0-6 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 3=-759(F) 9=-357(F) 10=-759(F) 11=-767(F)

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293216
PRYOR-F2C	KW1	GABLE	2	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:16:58 2021 Page 1
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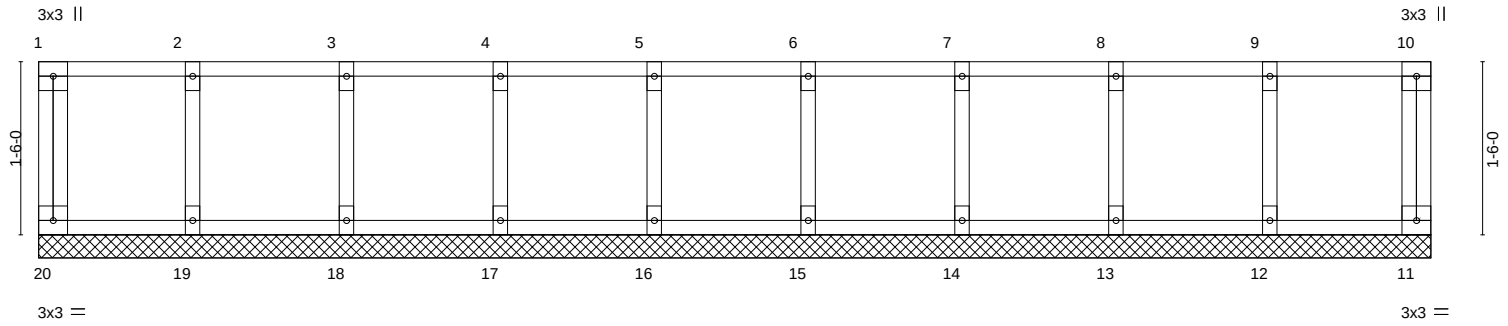

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW2	GABLE	2	1	I49293217
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:07 2021 Page 1
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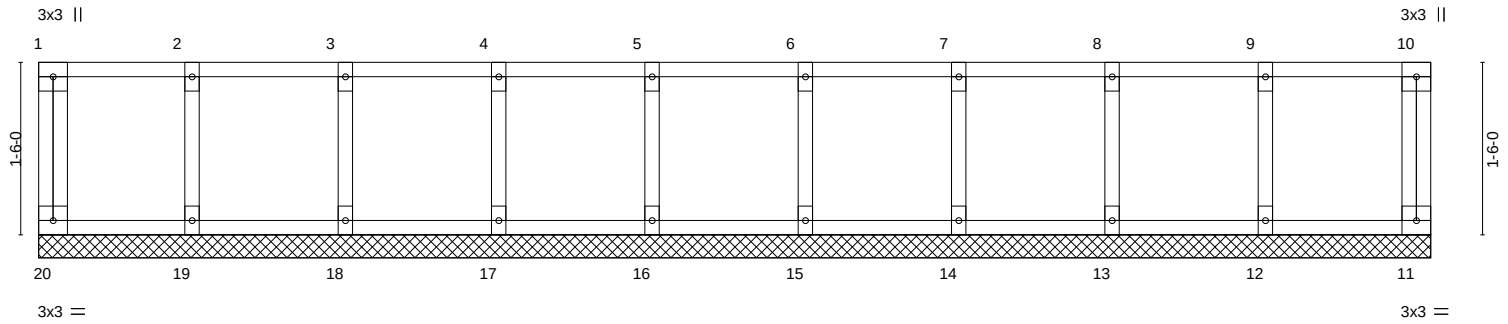

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-1-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293218
PRYOR-F2C	KW3	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:08 2021 Page 1
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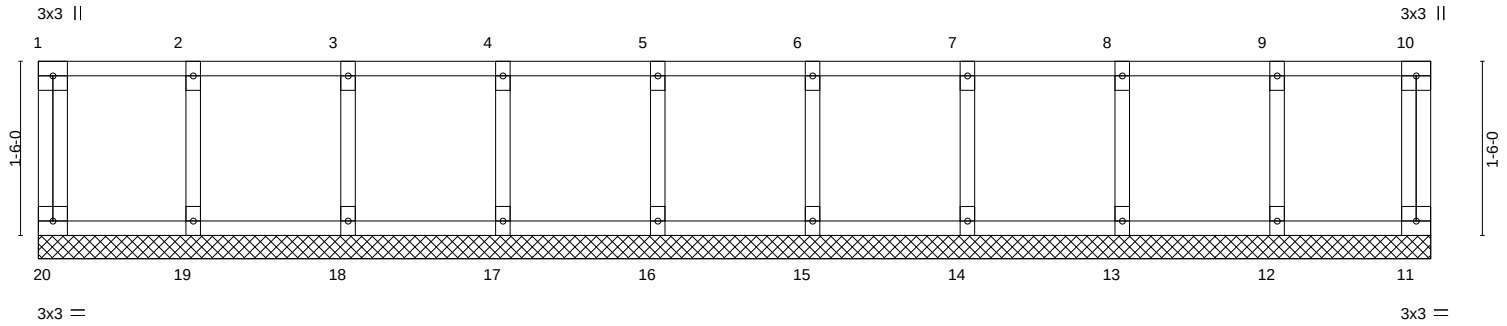

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-11-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-14

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW4	GABLE	1	1	I49293219
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:09 2021 Page 1
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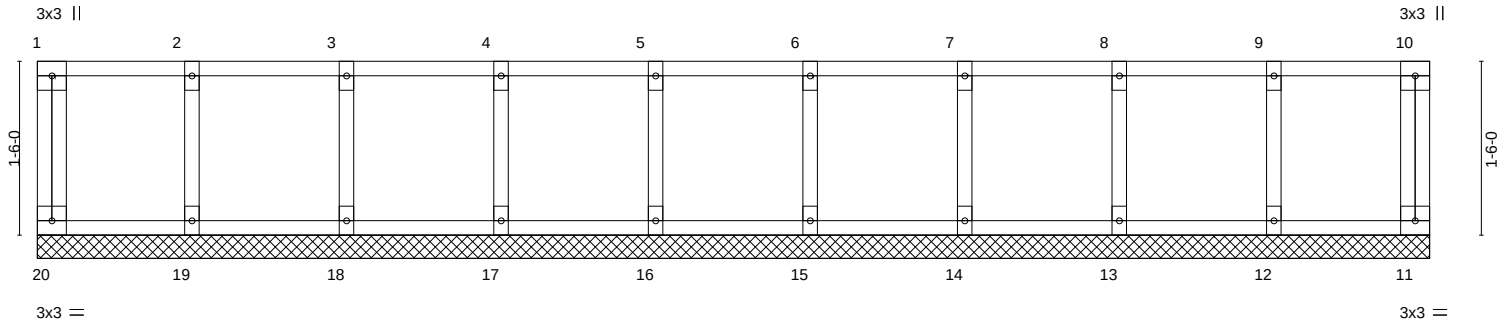

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW5	GABLE	1	1	I49293220
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-bSpqV6R_YhTlJWw3NRQ__4p5Ap30BM6ZmTS6CDy8eLt

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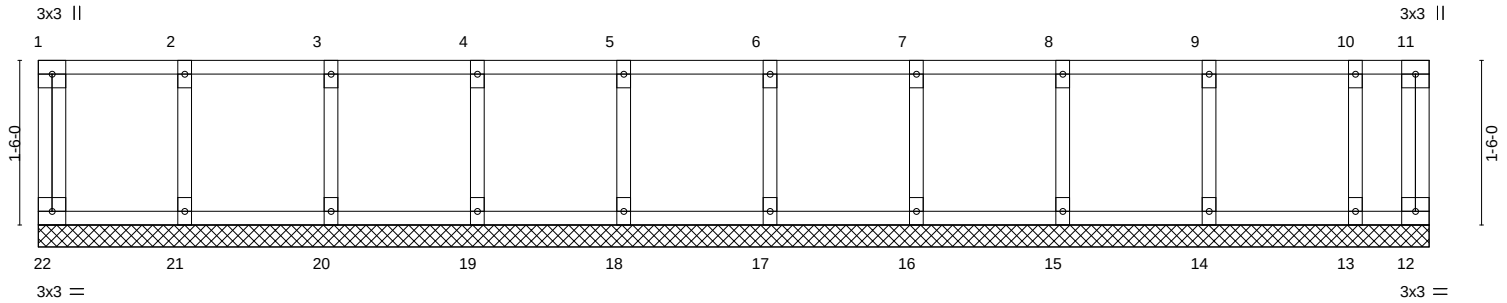

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-8-1
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-1

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-8-1.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW6	GABLE	2	1	I49293221
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:11 2021 Page 1
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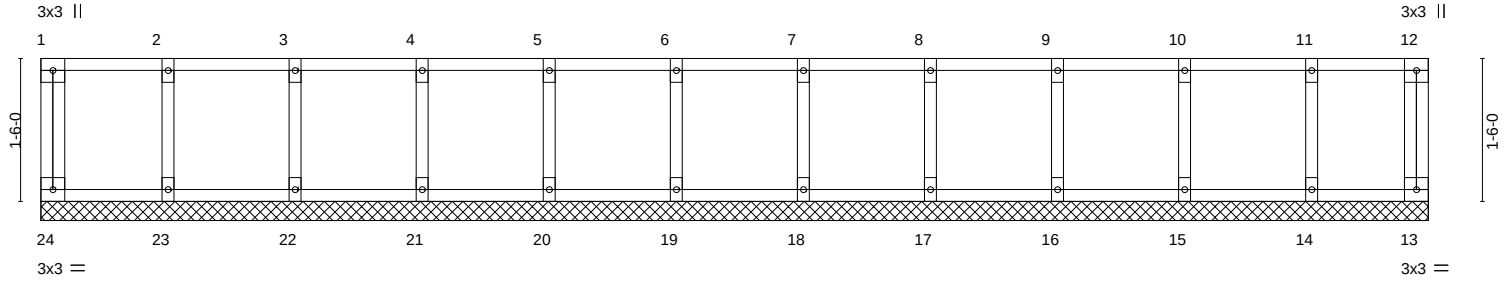

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-6-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-6-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW7	GABLE	2	1	I49293222
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:12 2021 Page 1
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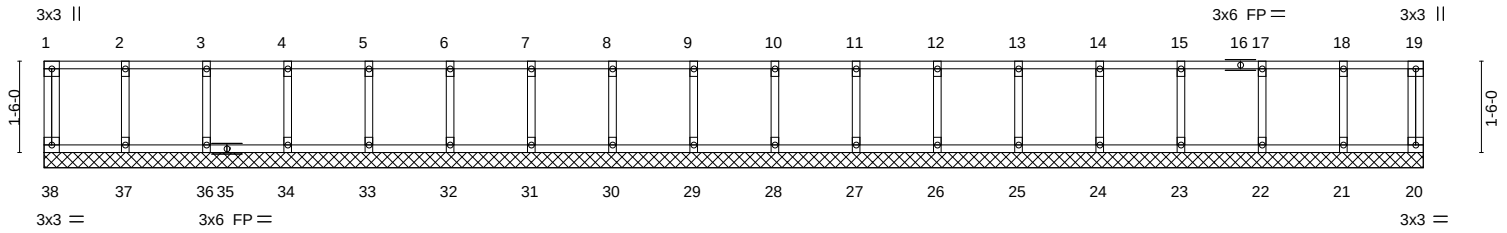

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-7-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-7-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW8	GABLE	1	1	I49293223
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:13 2021 Page 1
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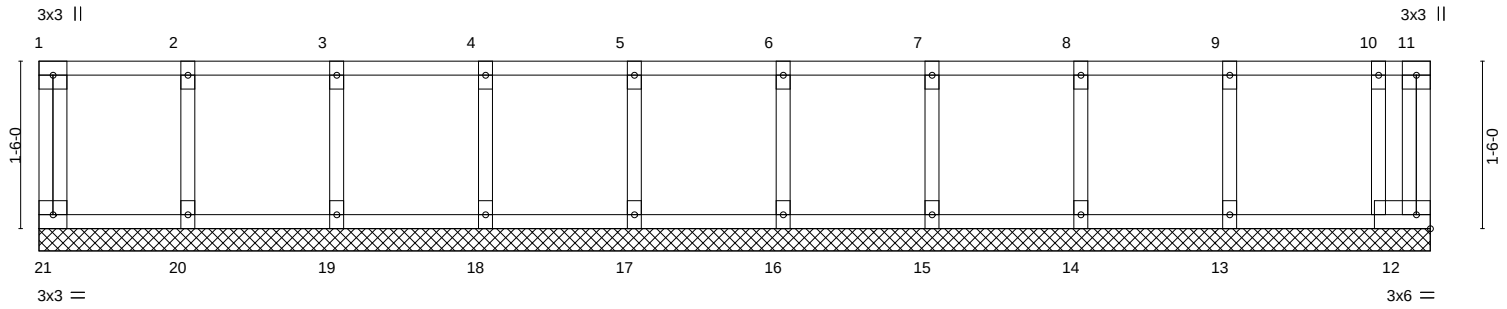

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-5-9
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-9

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-5-9.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293224
PRYOR-F2C	KW9	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:16 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-PcA6m9Vl8XEu1RNDkhXPEL37fD6Sb4bS8PvRQsy8eLn

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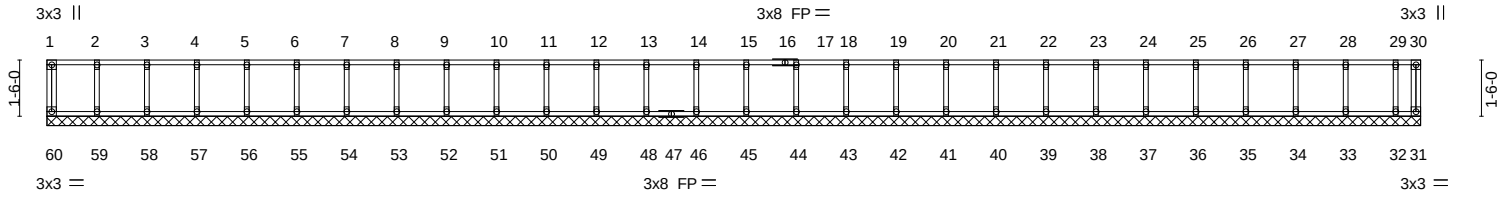

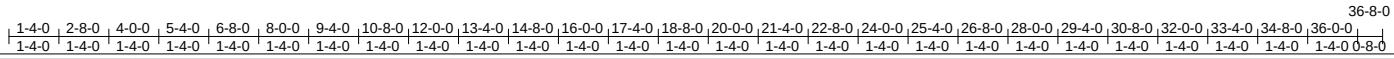

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL) I49293225
PRYOR-F2C	KW10	GABLE	4	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:00 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-tXC3PhJjvcDA6_98oKFeazOOhnfirrd5Tv1btoy8eM1

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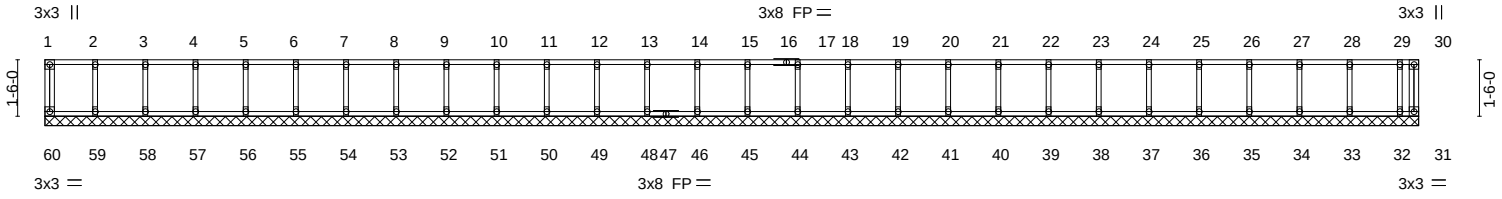

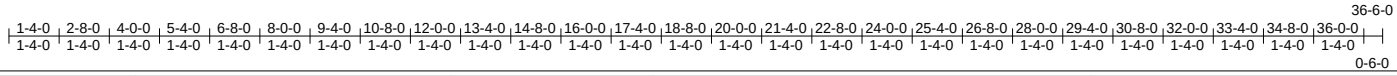

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW11	GABLE	1	1	I49293226
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:01 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-LjmRd1KLgwL1k7kLM2mt7AxZSA?0aItFhZm8PEy8eM0

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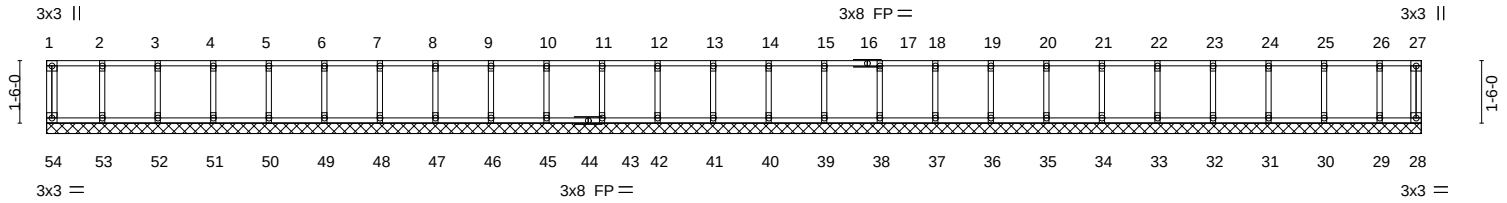

1-4-0 2-8-0 4-0-0 5-4-0 6-8-0 8-0-0 9-4-0 10-8-0 12-0-0 13-4-0 14-8-0 16-0-0 17-4-0 18-8-0 20-0-0 21-4-0 22-8-0 24-0-0 25-4-0 26-8-0 28-0-0 29-4-0 30-8-0 32-0-0 33-0-0
1-4-0 1-0-0

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 33-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 54, 28, 53, 52, 51, 50, 49, 48, 47, 46, 45, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW12	GABLE	1	1	I49293227
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-I6uB1jLbCXbkzRtjTToLCb0v?_gW2CNX9tFFT6y8eM_

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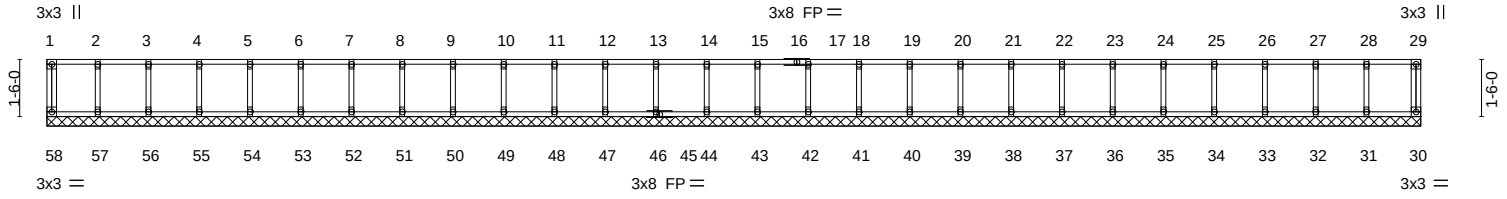

1-4-0 2-8-0 4-0-0 5-4-0 6-8-0 8-0-0 9-4-0 10-8-0 12-0-0 13-4-0 14-8-0 16-0-0 17-4-0 18-8-0 20-0-0 21-4-0 22-8-0 24-0-0 25-4-0 26-8-0 28-0-0 29-4-0 30-8-0 32-0-0 33-4-0 34-8-0 36-1-2
1-4-0 1-5-2

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 163 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-1-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW13	GABLE	1	1	I49293228
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:04 2021 Page 1
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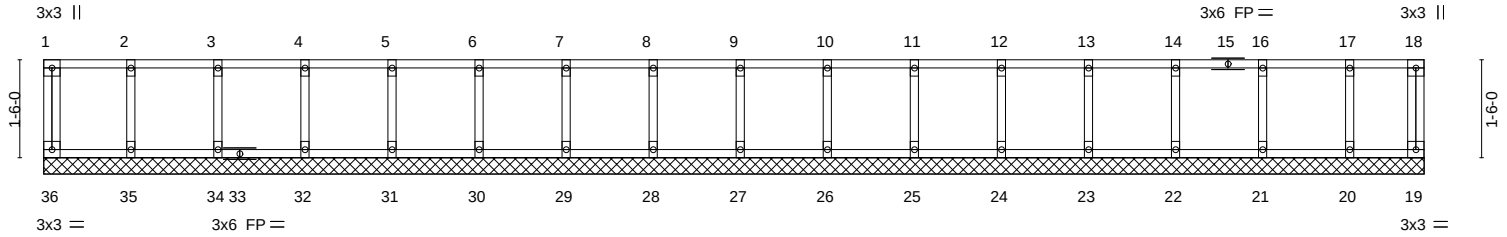

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-1-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-1-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW14	GABLE	1	1	I49293229
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:05 2021 Page 1
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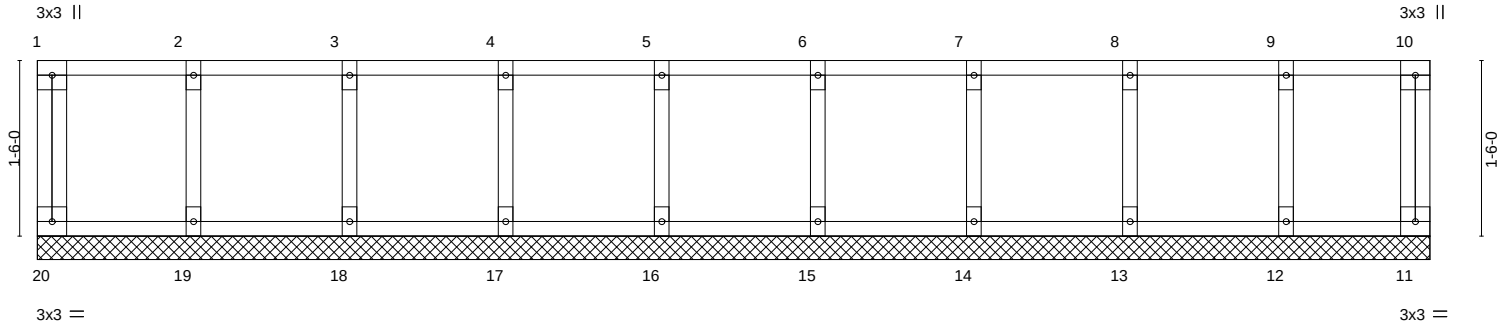


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

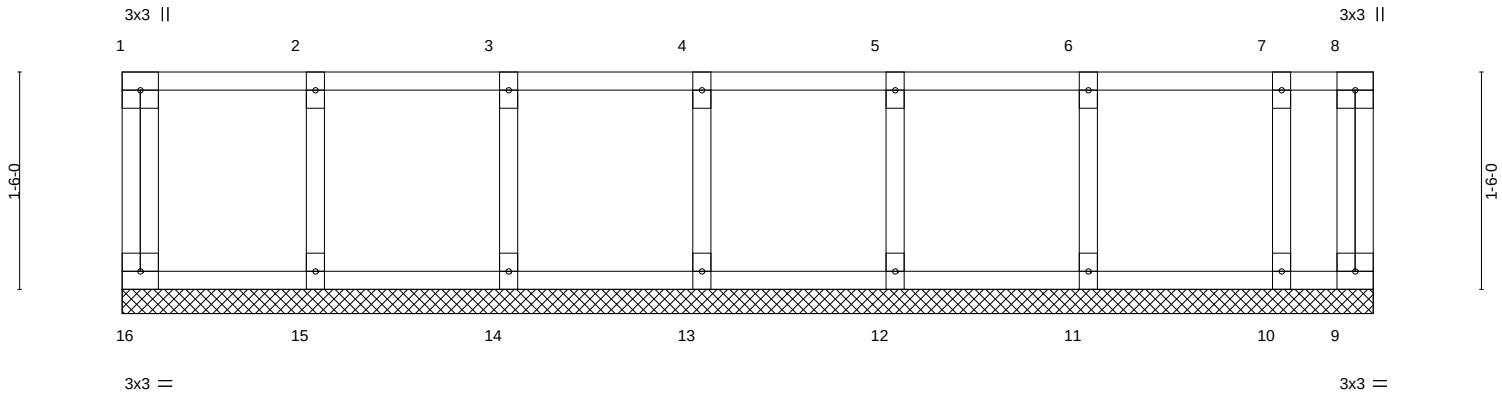
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW15	GABLE	1	1	I49293230
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:06 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ihZKgkOUVSzJqvcI8bM2qEePABi3FZ6_rrUv3Ry8eLx

Scale: 3/4"=1'



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	8-7-9
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-9

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-7-9.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 2

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 2ND LEVEL)
PRYOR-F2C	KW16	GABLE	1	1	I49293231
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 15 18:17:07 2021 Page 1
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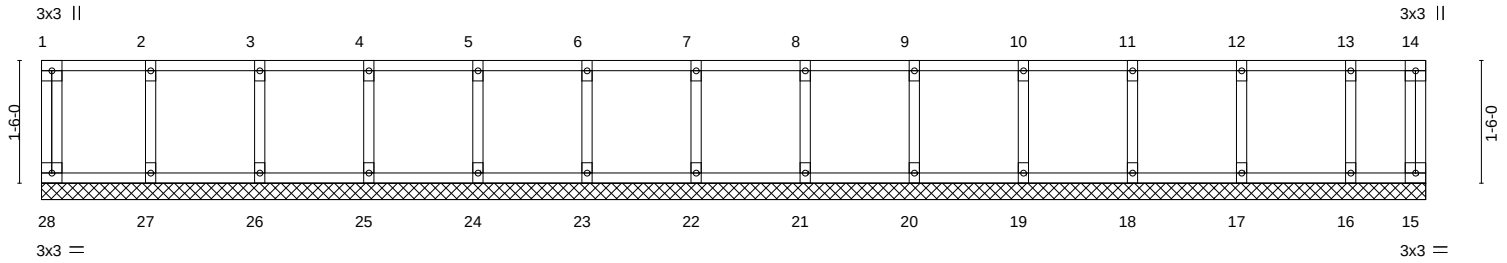

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	16-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 16,2021

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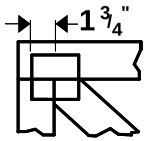
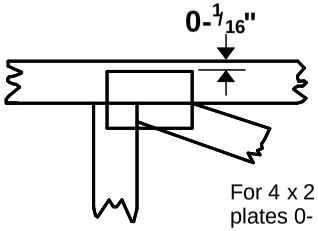
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

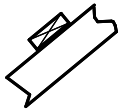
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

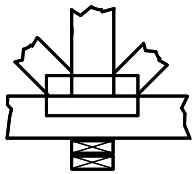
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

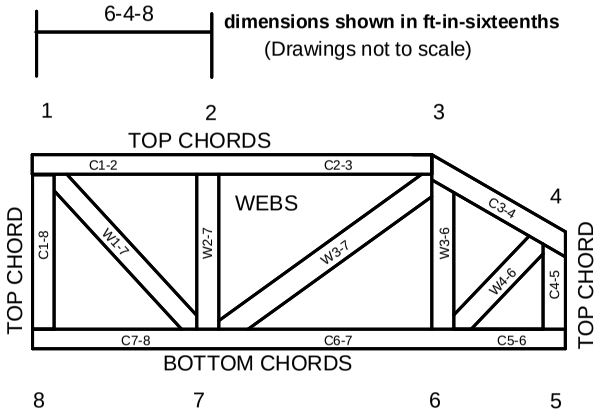


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area C Level 2

Building 2 Area A Level 3

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: January 9, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-11 Revision 0: Building 2 - Area A - 3rd Floor Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/1/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 01/09/2022 BY cb

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area A
2nd Level

3rd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

TRUSS LAYOUT

Scale: 1/8" = 1'-0

Building 2 Area A Level 3

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 01/09/2022 *BY:* cb

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F3A
WEST PRYOR-AREA A 3RD LEVEL- BLDG 2

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49485210 thru I49485295

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/1/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

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1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

December 31,2021

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C1	Floor	8	1	I49485210
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:27 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-EbPIUUsewaojXRlHByYzH2G9AU8?CnPEoBVTAvy3pcs

1-3-0 0-7-8

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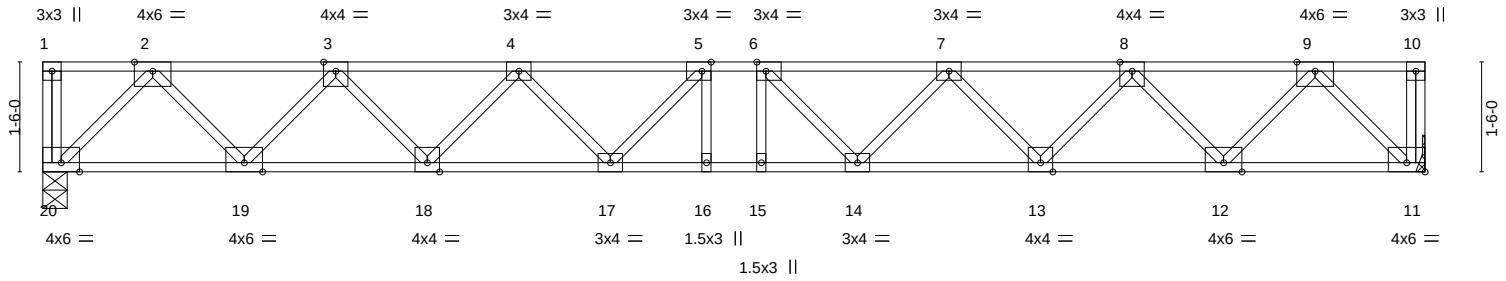

18-10-8
18-10-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.35	16	>647	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.43	16	>518	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.10	11	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 104 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-4-0, 11=Mechanical
Max Grav 20=1552(LC 1), 11=1552(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2505/0, 3-4=-4156/0, 4-5=-5031/0, 5-6=-5276/0, 6-7=-5031/0, 7-8=-4156/0, 8-9=-2505/0
BOT CHORD 19-20=0/1478, 18-19=0/3514, 17-18=0/4783, 16-17=0/5276, 15-16=0/5276, 14-15=0/5276, 13-14=0/4783, 12-13=0/3514, 11-12=0/1478
WEBS 2-20=-2090/0, 2-19=0/1526, 3-19=-1501/0, 3-18=0/954, 4-18=-933/0, 4-17=-39/558, 5-17=-665/176, 5-16=-298/306, 9-11=-2090/0, 9-12=0/1526, 8-12=-1501/0, 8-13=0/954, 7-13=-933/0, 7-14=-39/558, 6-14=-665/176, 6-15=-298/306

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C2	Floor	7	1	I49485211
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:30 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-fA4R6WuWDVAIOvUst45gvhul7hGSPDahU9k7nEy3pcp

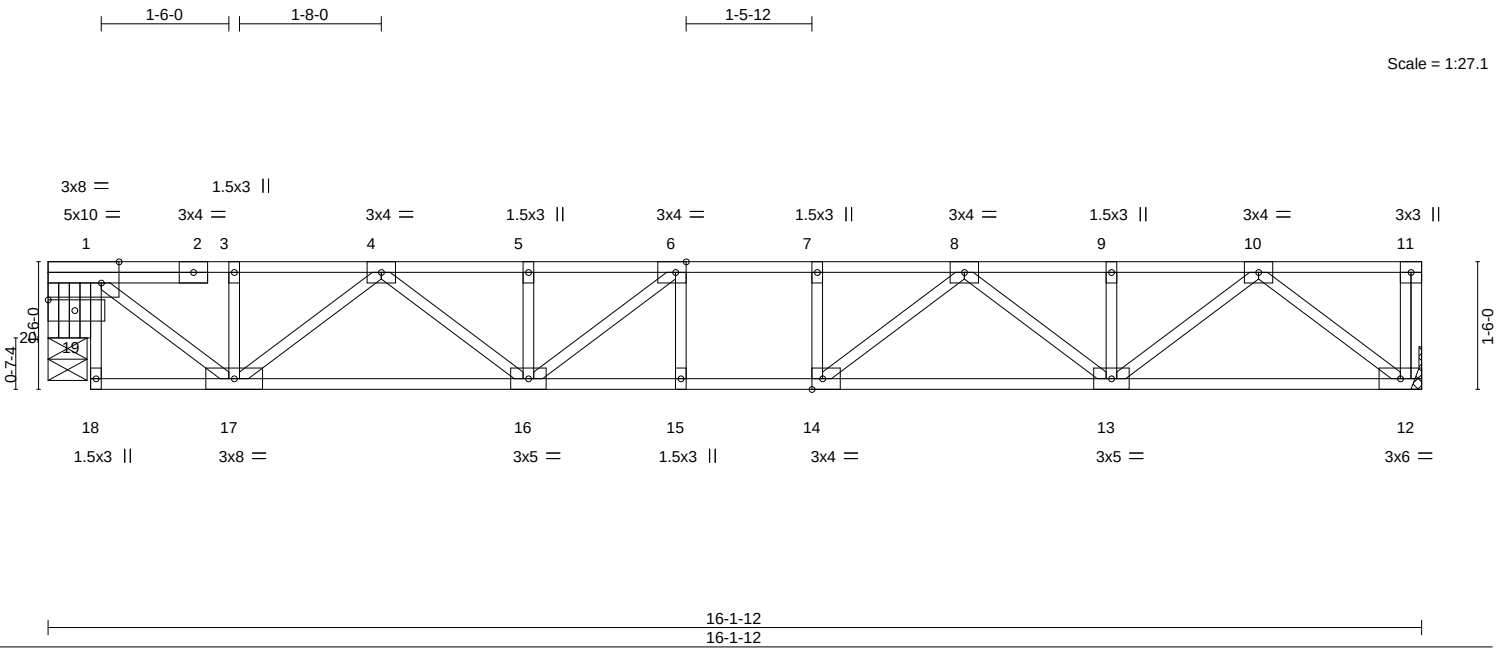

Plate Offsets (X,Y)-- [1:0-2-8,Edge], [6:0-1-8,Edge], [14:0-1-8,Edge], [20:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.09	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.14	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 93 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 10-12,10-13,4-17,8-13,4-16,8-14,6-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 20=0-5-8
Max Grav 12=677(LC 1), 20=663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-796/0, 3-4=-794/0, 4-5=-1730/0, 5-6=-1730/0, 6-7=-1912/0, 7-8=-1912/0, 8-9=-1358/0, 9-10=-1358/0
BOT CHORD	16-17=0/1350, 15-16=0/1912, 14-15=0/1912, 13-14=0/1724, 12-13=0/793
WEBS	10-12=-1000/0, 1-17=0/932, 10-13=0/721, 4-17=-710/0, 8-13=-468/0, 4-16=0/485, 8-14=0/369, 6-16=-382/0, 1-20=-678/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C3	Floor	3	1	I49485212
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:31 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-7NepKsv8_pI90332QncvSuQrT5Y68edqjpThJgy3pco

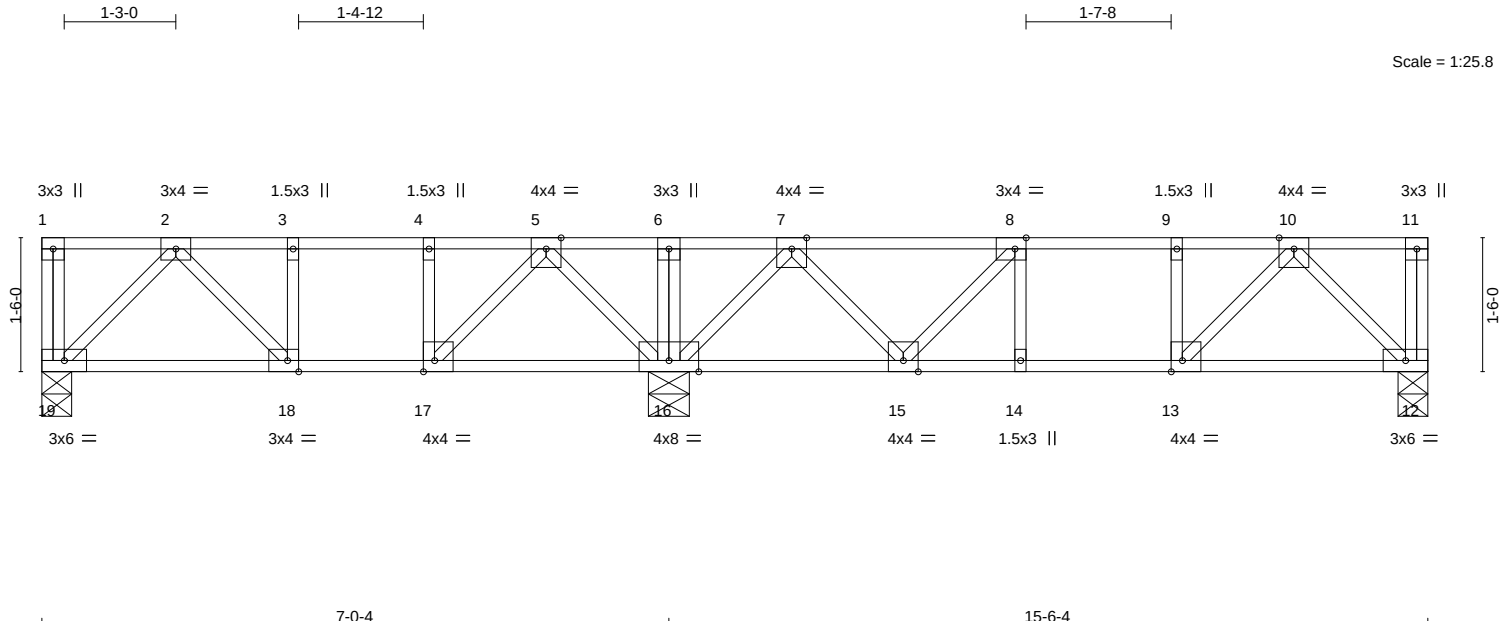

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.08	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-4-0, 16=0-5-8
Max Grav 19=997(LC 10), 12=1154(LC 7), 16=2628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1172/184, 3-4=-1172/184, 4-5=-1172/184, 5-6=0/1111, 6-7=0/1111, 7-8=-1141/0, 8-9=-1582/0, 9-10=-1582/0
BOT CHORD 18-19=-21/822, 17-18=-184/1172, 16-17=-502/703, 15-16=-46/633, 14-15=0/1582, 13-14=0/1582, 12-13=0/985
WEBS 6-16=-348/0, 2-19=-1162/30, 2-18=-235/508, 5-16=-1489/0, 5-17=0/1093, 4-17=-669/0, 3-18=-360/125, 7-16=-1835/0, 7-15=0/884, 10-12=-1393/0, 10-13=0/864, 9-13=-518/0, 8-15=-839/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C4	Floor	2	1	I49485213 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:32 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-bZCBXCwnk6Q0eCeE_V78_6z05VvAt61zyTDEr7y3pcn

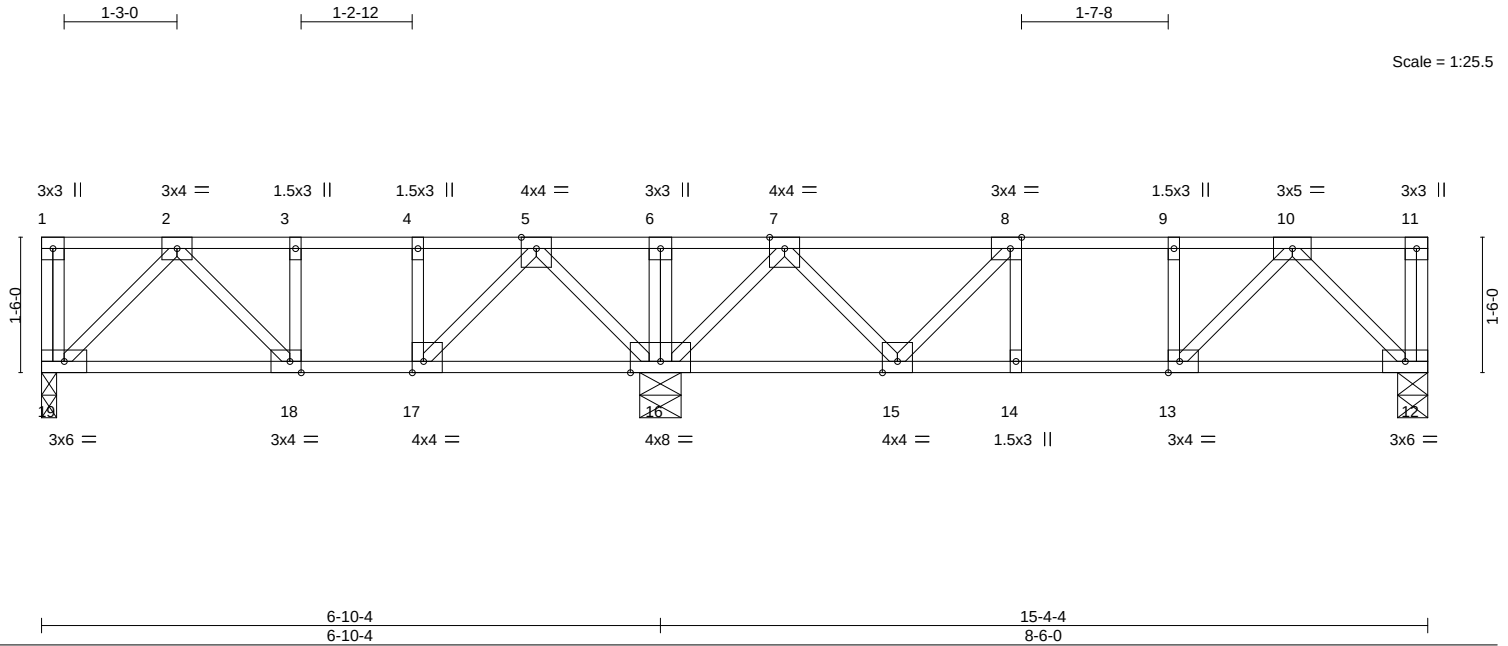

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.08	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-2-0, 12=0-4-0, 16=0-5-8
Max Uplift 19=-7(LC 4)
Max Grav 19=970(LC 10), 12=1139(LC 7), 16=2630(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1116/223, 3-4=-1116/223, 4-5=-1116/223, 5-6=0/1175, 6-7=0/1175, 7-8=-1080/0, 8-9=-1544/0, 9-10=-1544/0
BOT CHORD 18-19=-41/796, 17-18=-223/1116, 16-17=-550/677, 15-16=-55/556, 14-15=0/1544, 13-14=0/1544, 12-13=0/970
WEBS 6-16=-347/0, 2-19=-1126/59, 2-18=-263/463, 5-16=-1485/0, 5-17=0/1073, 4-17=-650/0, 3-18=-328/140, 10-12=-1372/0, 10-13=0/831, 9-13=-502/0, 7-16=-1841/0, 7-15=0/891, 8-15=-849/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C5	Floor	12	1	I49485214
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:33 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-3lmZkYwPVQYtFMCRYCeNXJV73uBncZG7A7ynNZy3pcm

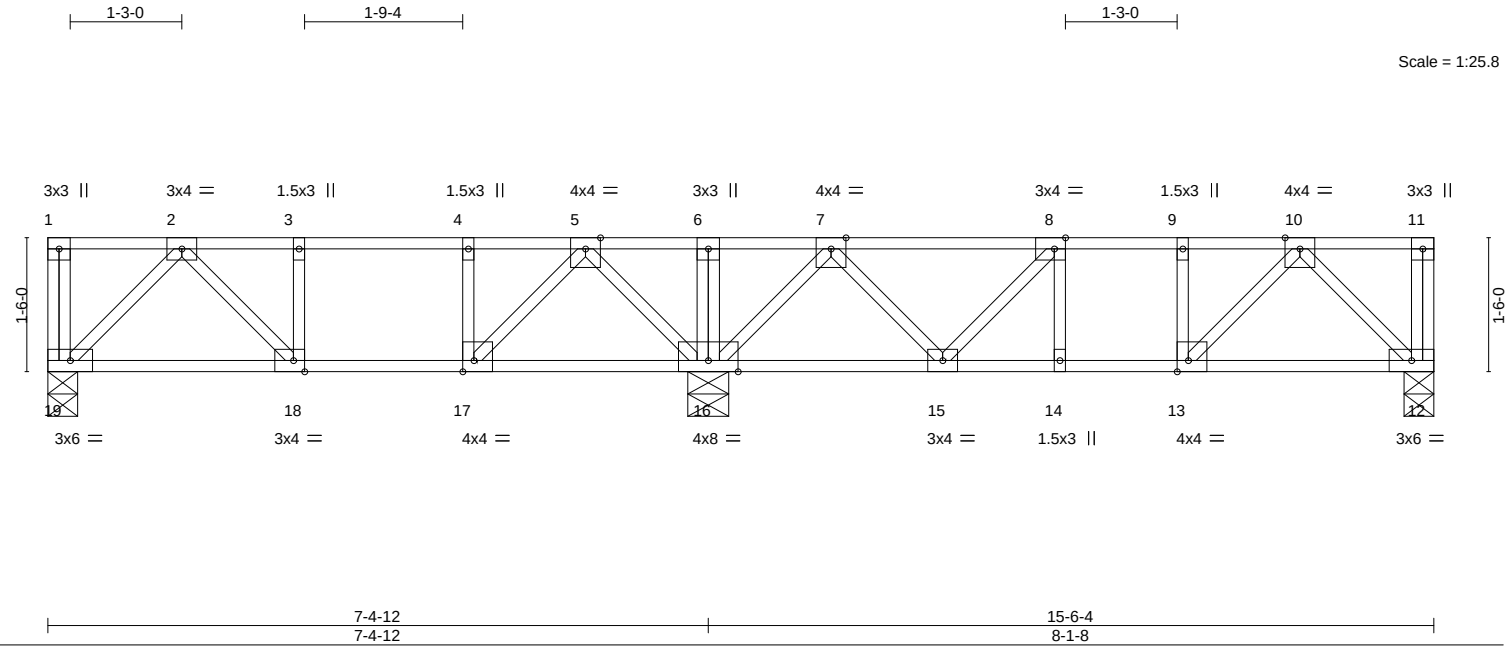

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.09	18-19	>992	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.10	18-19	>844	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-4-0, 16=0-5-8
Max Grav 19=1051(LC 10), 12=1150(LC 7), 16=2545(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1290/45, 3-4=-1290/45, 4-5=-1290/45, 5-6=0/994, 6-7=0/994, 7-8=-1264/0, 8-9=-1576/0, 9-10=-1576/0
BOT CHORD 18-19=0/872, 17-18=-45/1290, 16-17=-307/740, 15-16=-33/860, 14-15=0/1576, 13-14=0/1576, 12-13=0/987
WEBS 6-16=-341/0, 2-19=-1233/0, 2-18=-121/606, 3-18=-433/59, 5-16=-1470/0, 5-17=0/1071, 4-17=-671/0, 7-16=-1746/0, 7-15=0/785, 8-15=-723/0, 10-12=-1396/0, 10-13=0/853, 9-13=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C6	Floor	2	1	I49485215
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:34 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-XyKyytx1GkgktWnd6wAc4X2M_IakL_KGPniLw?y3pcl

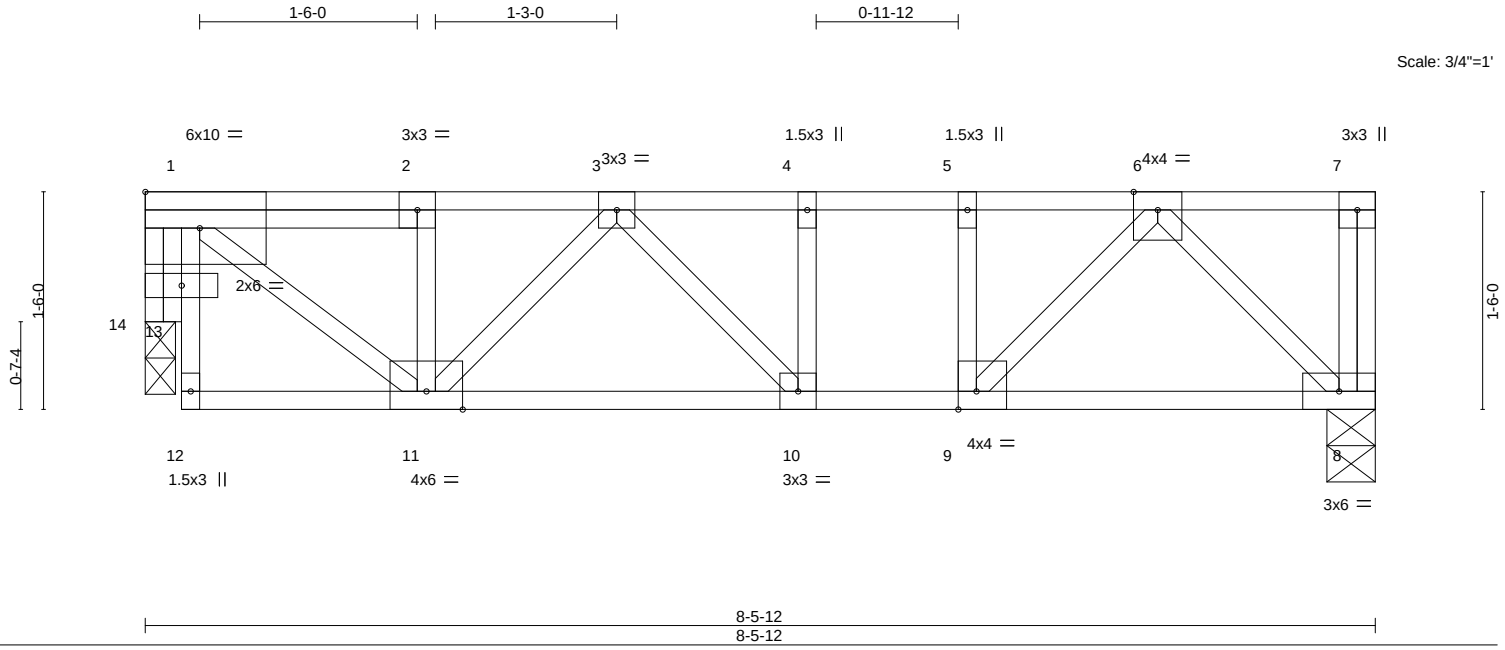

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	100.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.10	10-11	>993	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 54 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 14=0-2-8
Max Grav 8=1026(LC 1), 14=985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1082/0, 2-3=-1076/0, 3-4=-1450/0, 4-5=-1450/0, 5-6=-1450/0
BOT CHORD 10-11=0/1459, 9-10=0/1450, 8-9=0/884
WEBS 1-11=0/1232, 2-11=-318/0, 3-11=-555/0, 3-10=-193/305, 6-8=-1250/0, 6-9=0/847, 5-9=-476/0, 1-14=-1012/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C6A	Floor	2	1	I49485216
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:34 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-XyKyytx1GkgktWnd6wAc4X2J_Ie9L0oGPniLw?y3pcl

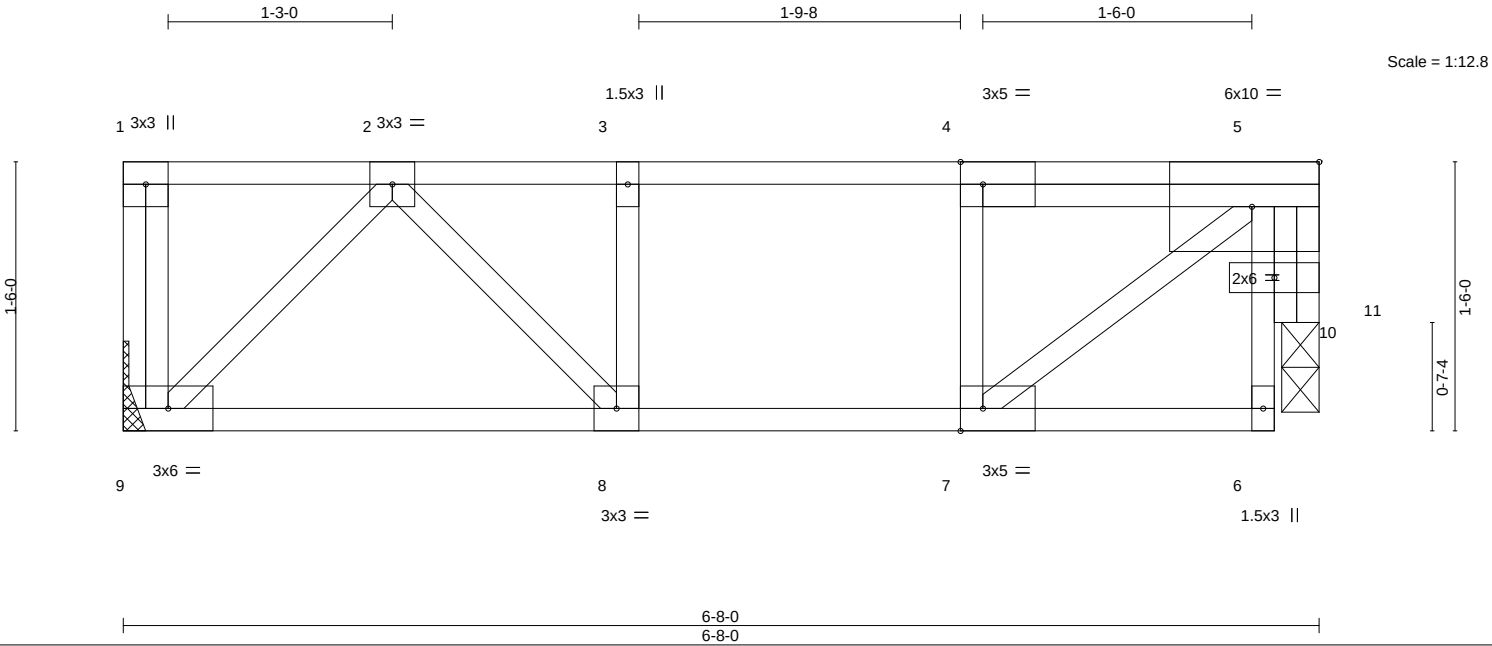

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-4-8,Edge], [7:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	8-9	>974	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 11=0-2-8
Max Grav 9=799(LC 1), 11=759(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-883/0, 3-4=-883/0, 4-5=-885/0
BOT CHORD	8-9=0/649, 7-8=0/883
WEBS	2-9=-917/0, 2-8=0/452, 3-8=-290/0, 5-7=0/1035, 4-7=-577/0, 5-11=-775/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C7	Floor	4	1	I49485217
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:35 2021 Page 1
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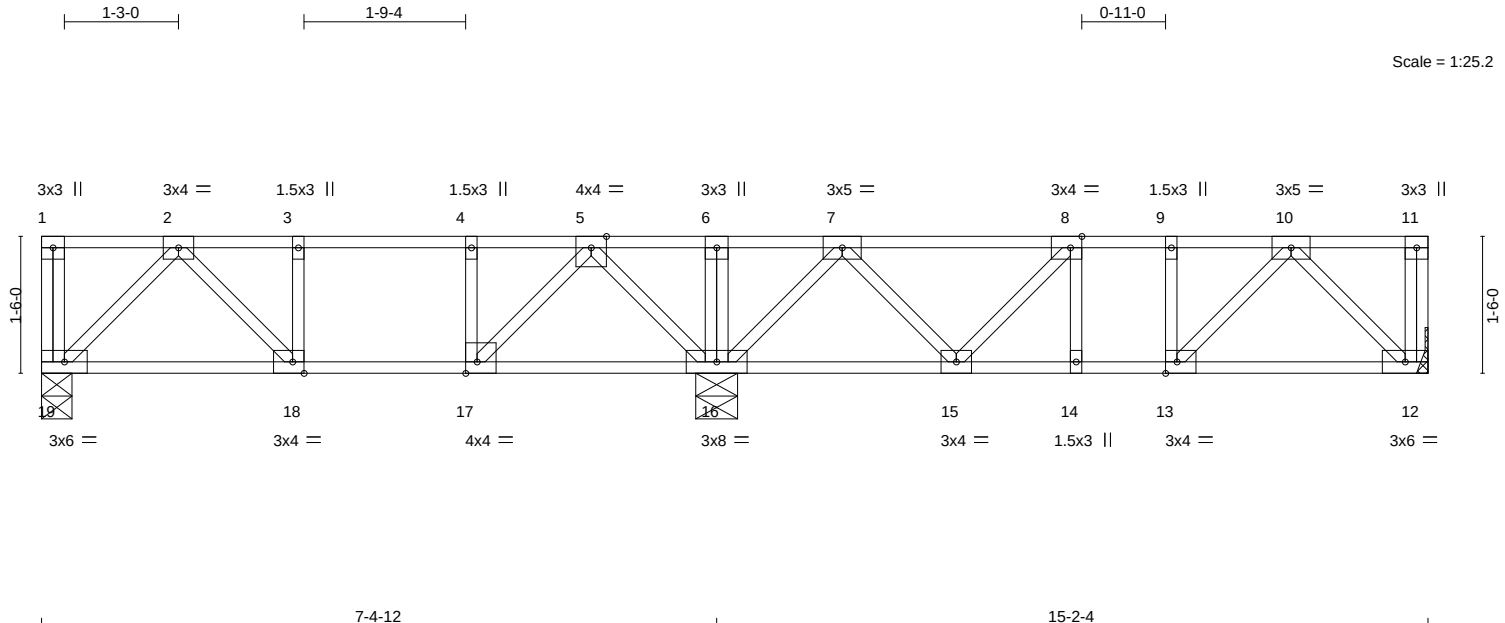

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.08	18-19	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.09	18-19	>936	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 87 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=Mechanical, 16=0-5-8
Max Grav 19=1046(LC 10), 12=1121(LC 7), 16=2474(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1276/0, 3-4=-1276/0, 4-5=-1276/0, 5-6=0/937, 6-7=0/937, 7-8=-1257/0, 8-9=-1506/0, 9-10=-1506/0
BOT CHORD 18-19=0/866, 17-18=0/1276, 16-17=-225/717, 15-16=-39/917, 14-15=0/1506, 13-14=0/1506, 12-13=0/959
WEBS 6-16=-338/0, 2-19=-1225/0, 2-18=-77/593, 5-16=-1432/0, 5-17=0/1008, 4-17=-639/0, 3-18=-426/37, 7-16=-1674/0, 7-15=0/713, 8-15=-645/0, 10-12=-1356/0, 10-13=0/793, 9-13=-395/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C8	Floor	1	1	I49485218
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:36 2021 Page 1
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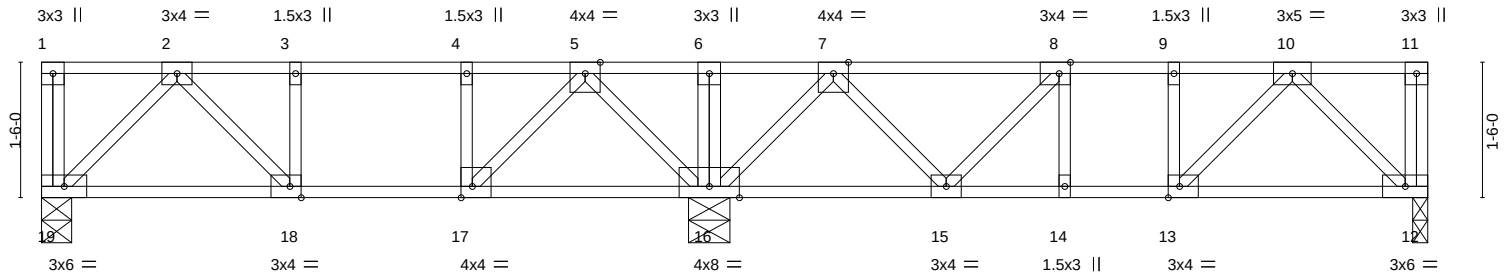

7-4-12 15-4-4
7-4-12 7-11-8

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.08	18-19	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.10	18-19	>887	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-2-0, 16=0-5-8
Max Grav 19=1049(LC 10), 12=1135(LC 7), 16=2506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1283/20, 3-4=-1283/20, 4-5=-1283/20, 5-6=0/966, 6-7=0/966, 7-8=-1261/0, 8-9=-1541/0, 9-10=-1541/0
BOT CHORD 18-19=0/869, 17-18=-20/1283, 16-17=-266/728, 15-16=-36/889, 14-15=0/1541, 13-14=0/1541, 12-13=0/973
WEBS 6-16=-339/0, 2-19=-1229/0, 2-18=-99/600, 5-16=-1451/0, 5-17=0/1039, 4-17=-655/0, 3-18=-429/48, 7-16=-1711/0, 7-15=0/749, 8-15=-683/0, 10-12=-1376/0, 10-13=0/822, 9-13=-430/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C9	Floor	9	1	I49485219
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:37 2021 Page 1
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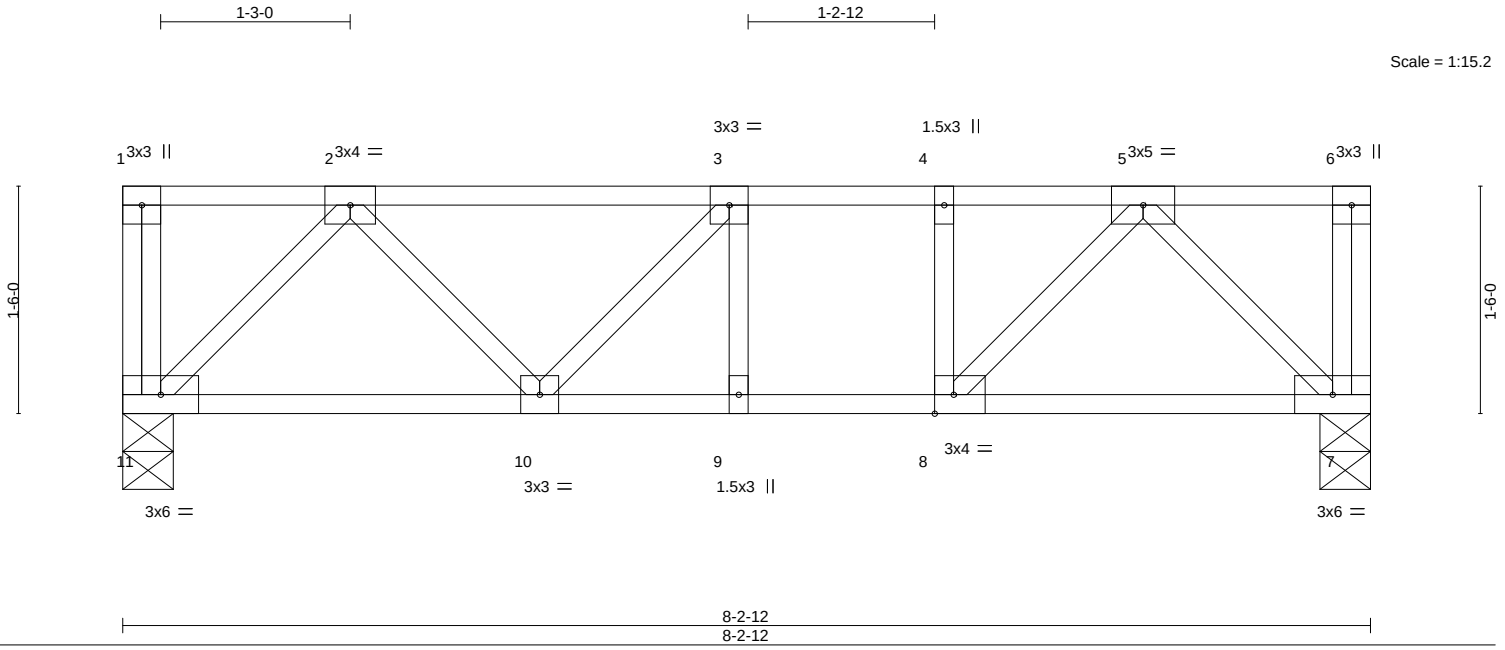

Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.10	9-10	>958	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=0-4-0
Max Grav 11=998(LC 1), 7=998(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1211/0, 3-4=-1407/0, 4-5=-1407/0
BOT CHORD 10-11=0/920, 9-10=0/1407, 8-9=0/1407, 7-8=0/864
WEBS 2-11=-1302/0, 2-10=0/431, 3-10=-397/0, 3-9=-280/41, 5-7=-1222/0, 5-8=0/826, 4-8=-405/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C10	Floor	3	1	I49485220
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:28 2021 Page 1
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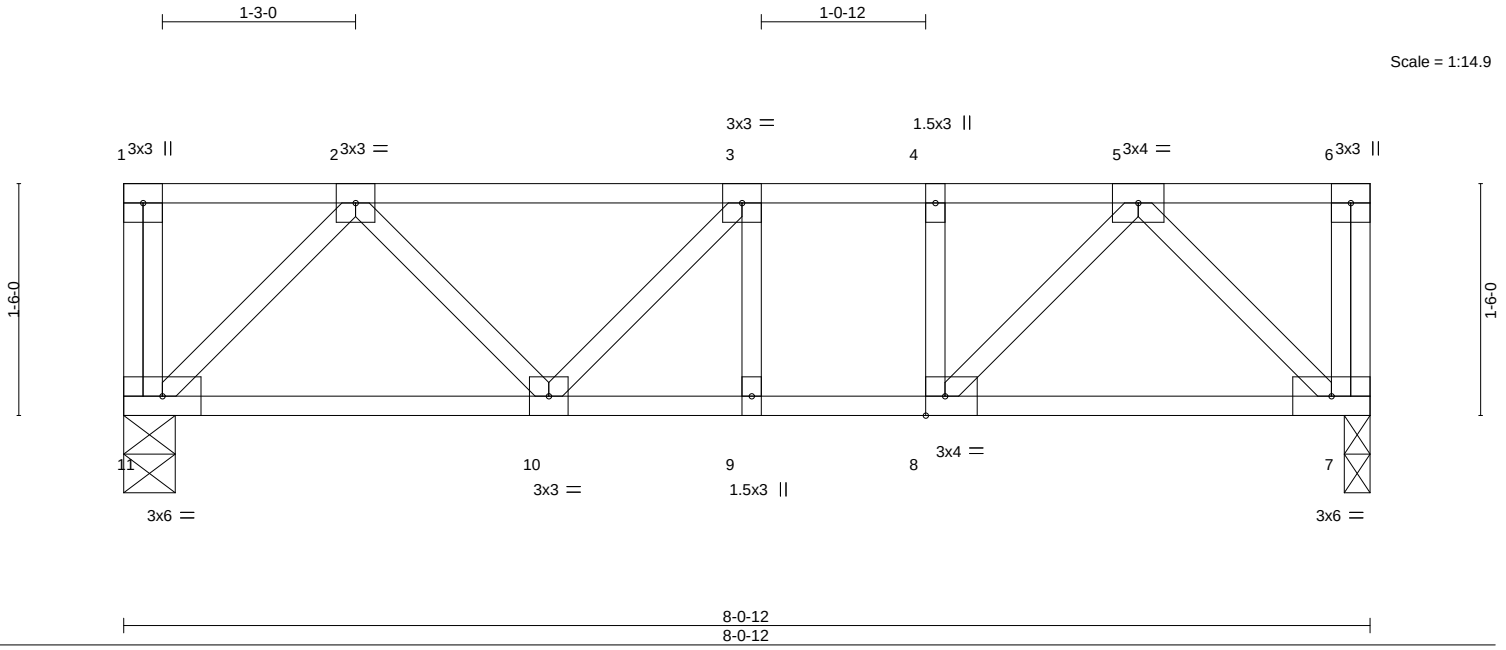

Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 7=0-2-0
Max Grav 11=977(LC 1), 7=977(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1170/0, 3-4=-1357/0, 4-5=-1357/0
BOT CHORD 10-11=0/899, 9-10=0/1357, 8-9=0/1357, 7-8=0/841
WEBS 2-11=-1271/0, 2-10=0/403, 3-10=-368/0, 3-9=-264/37, 5-7=-1189/0, 5-8=0/784, 4-8=-381/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C11	Floor	4	1	I49485221
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:28 2021 Page 1
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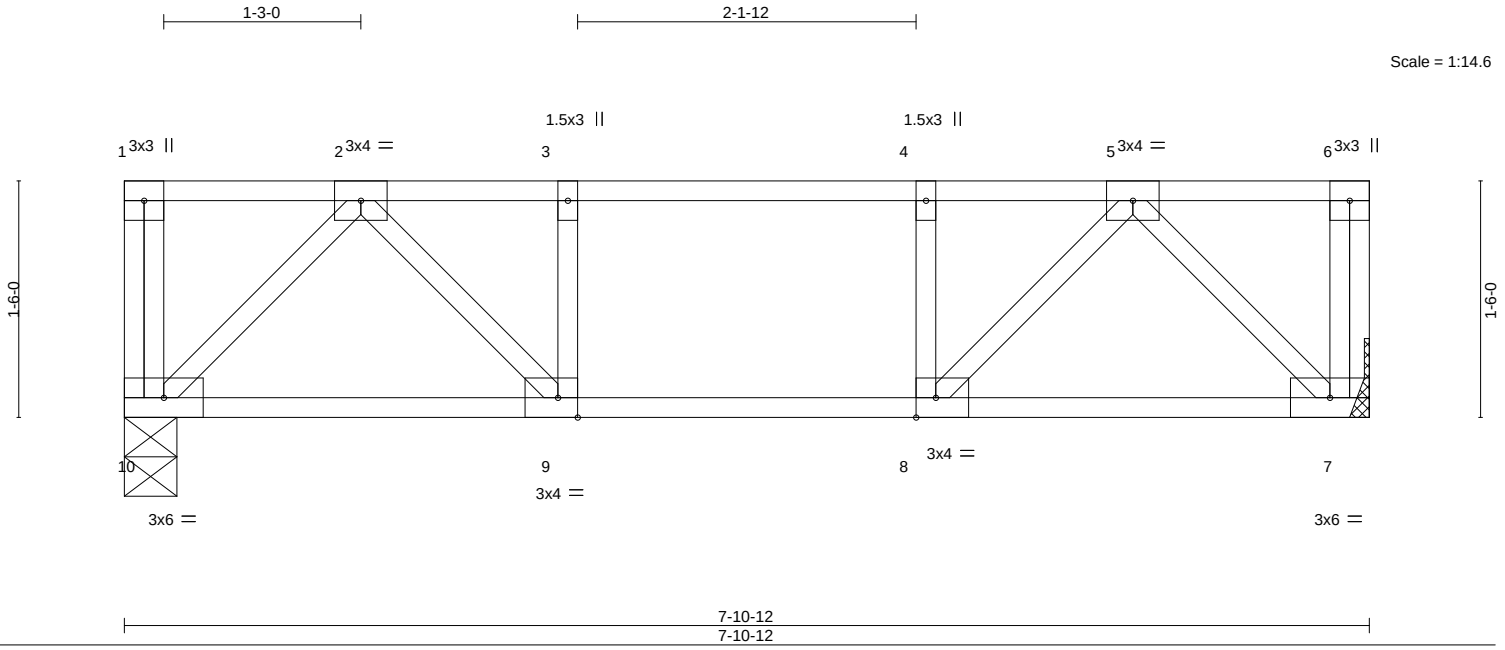

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=956(LC 1), 7=956(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1272/0, 3-4=-1272/0, 4-5=-1272/0
BOT CHORD 9-10=0/802, 8-9=0/1272, 7-8=0/802
WEBS 2-10=-1134/0, 2-9=0/779, 3-9=-483/0, 5-7=-1134/0, 5-8=0/779, 4-8=-483/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C12	Floor	2	1	I49485222
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:29 2021 Page 1
ID:UqNPlAaXrQdq9Nwi0UX4v5zcPU6-B_W3vAtuSB2RnlvfJNaRNTLW?Hy3gn9XFV_aEoy3pcq

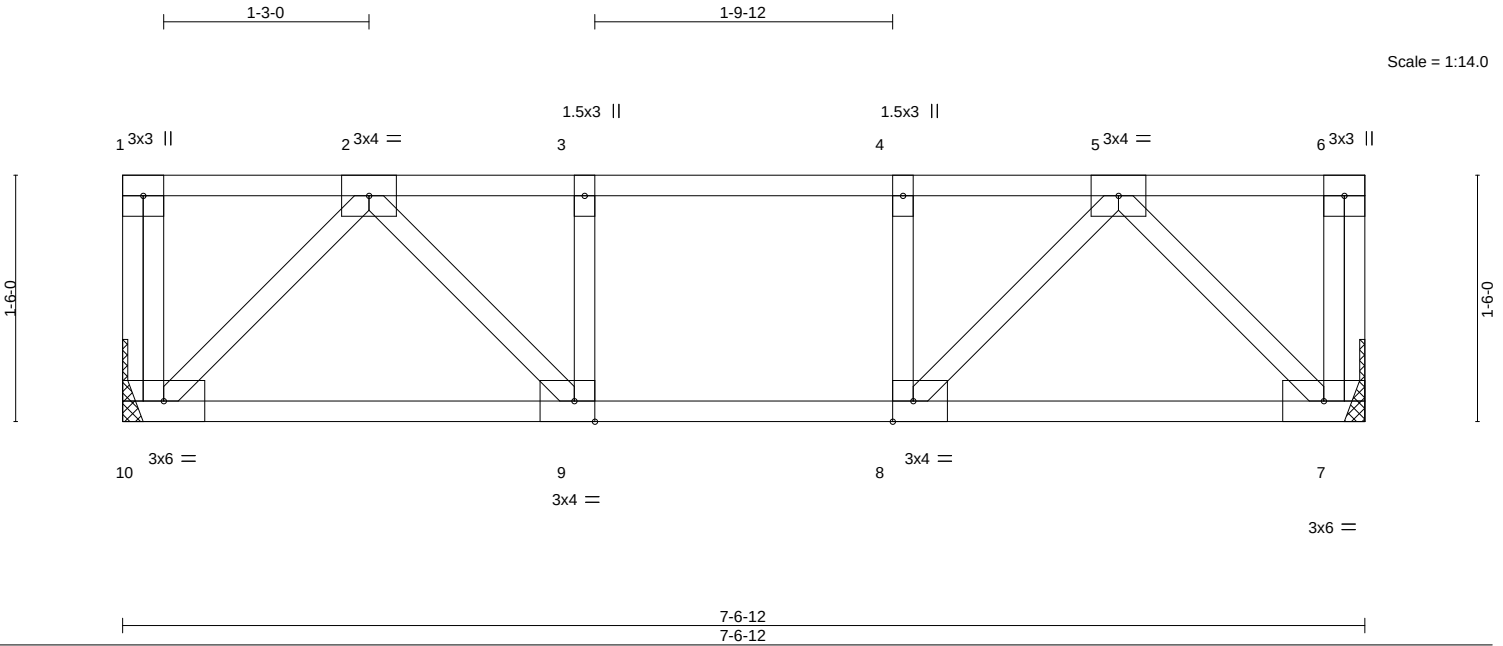

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=914(LC 1), 7=914(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1174/0, 3-4=-1174/0, 4-5=-1174/0
BOT CHORD 9-10=0/764, 8-9=0/1174, 7-8=0/764
WEBS 2-10=-1080/0, 2-9=0/686, 3-9=-419/0, 5-7=-1080/0, 5-8=0/686, 4-8=-419/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	C13	Floor	1	1	I49485223
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:29 2021 Page 1
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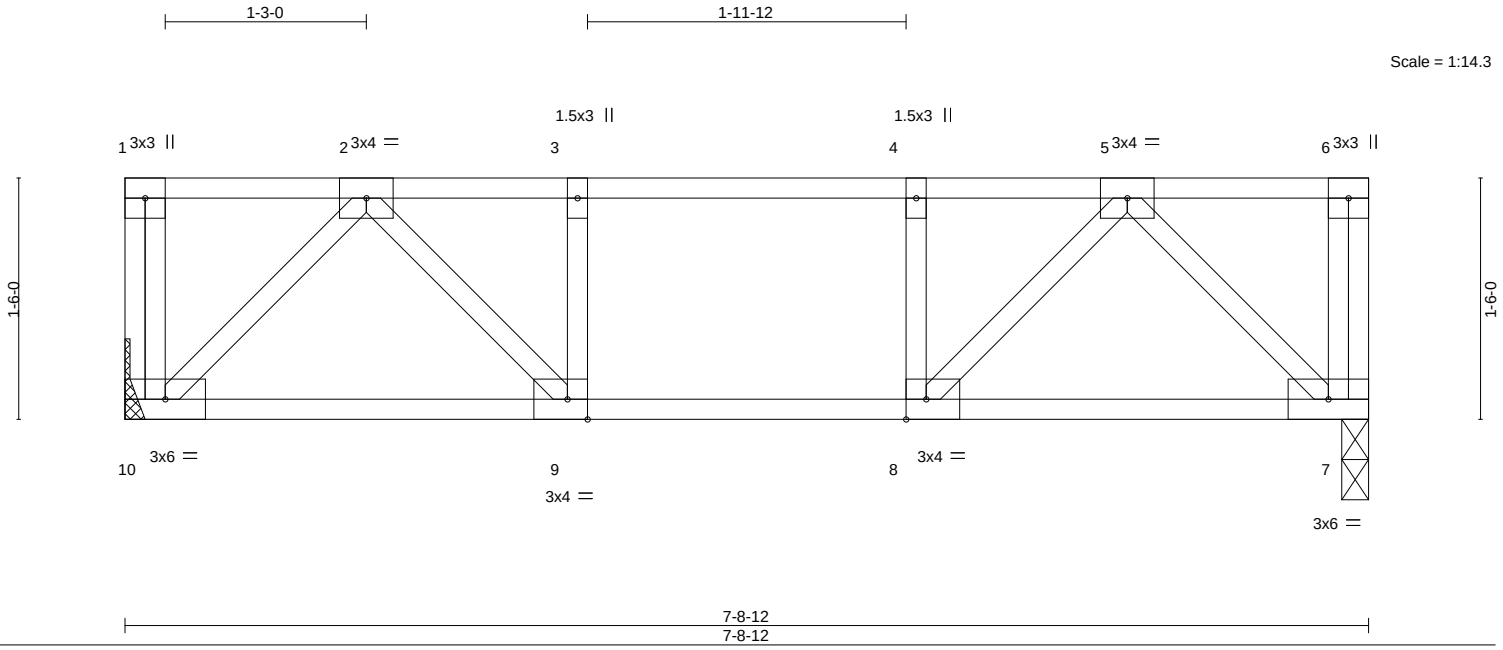

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-2-0
Max Grav 10=935(LC 1), 7=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1222/0, 3-4=-1222/0, 4-5=-1222/0
BOT CHORD 9-10=0/783, 8-9=0/1222, 7-8=0/783
WEBS 2-10=-1107/0, 2-9=0/732, 5-7=-1107/0, 5-8=0/732, 4-8=-451/0, 3-9=-451/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F1	Floor	6	1	I49485224
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:37 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-yW?4avzvZf2Jk_WCn2jJh9gyUWgUYQgi5lw?WKy3pci

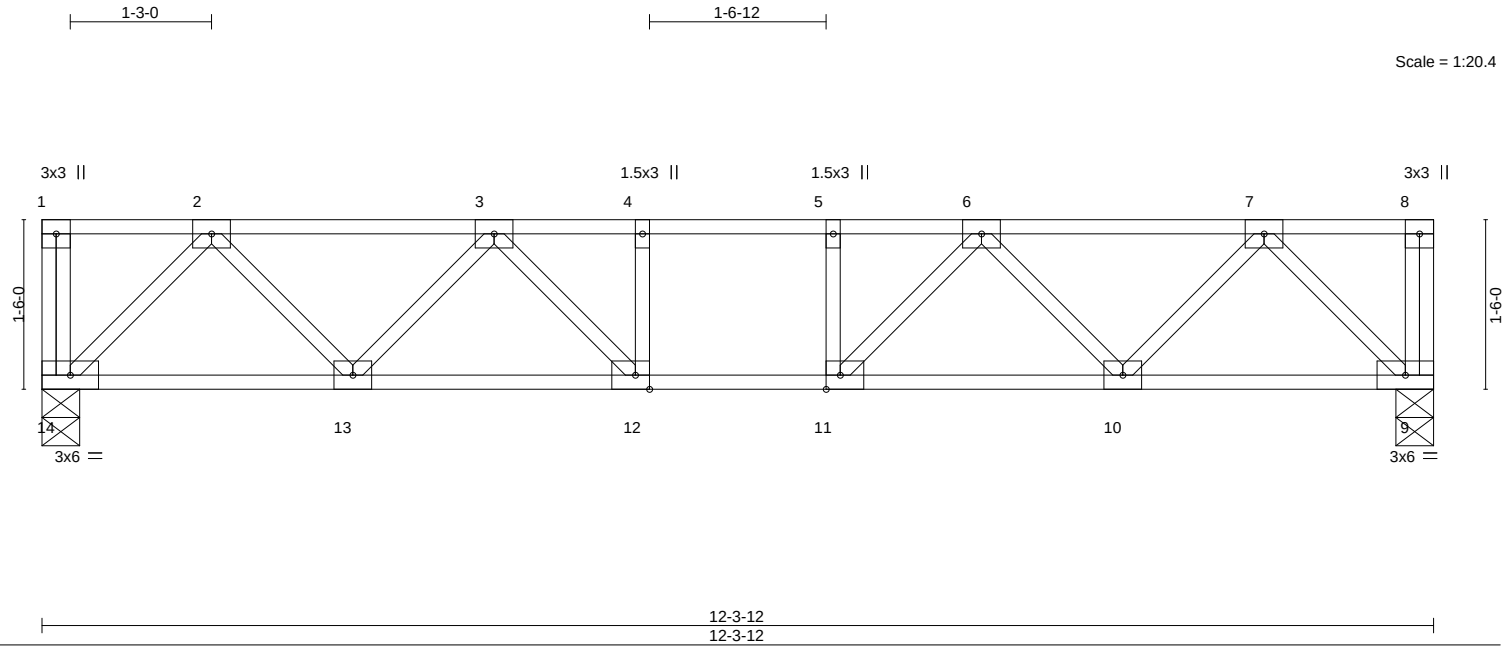

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F2	Floor	23	1	I49485225
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:50 2021 Page 1
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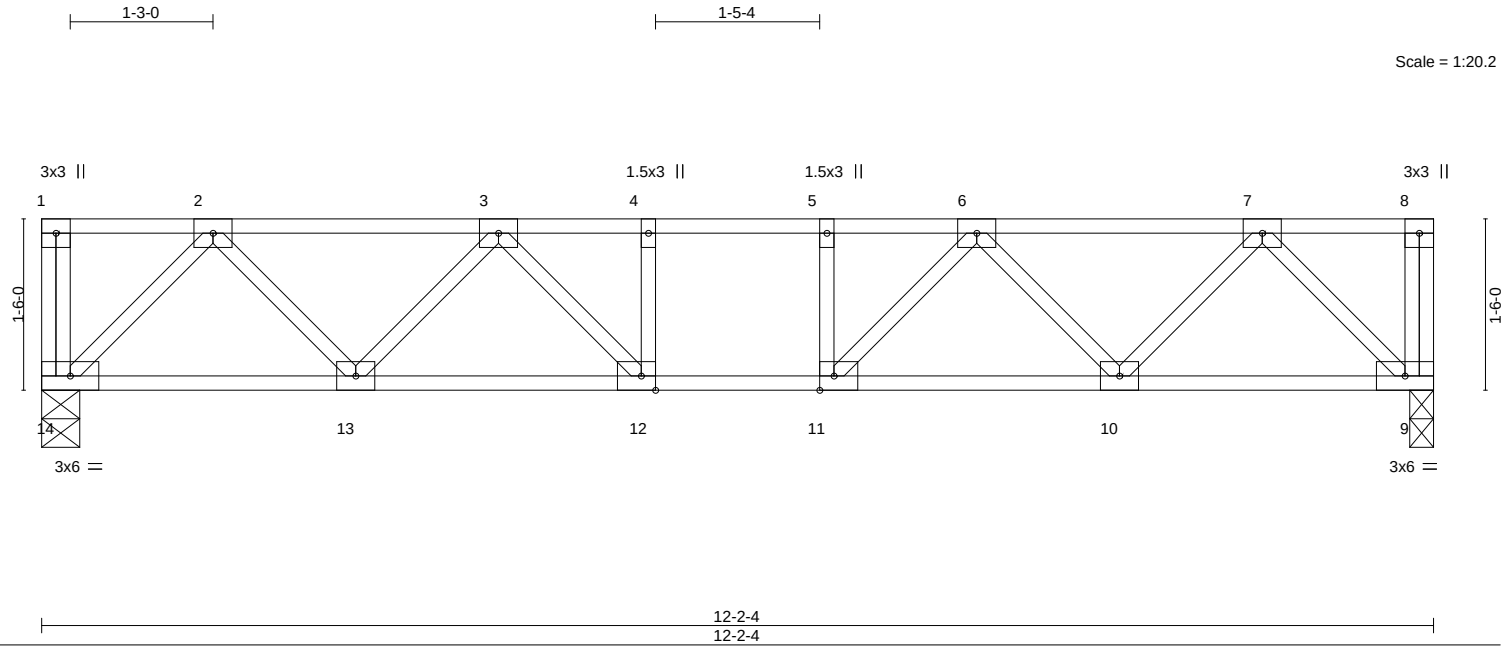

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F2A	Floor	3	1	I49485226
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:01 2021 Page 1
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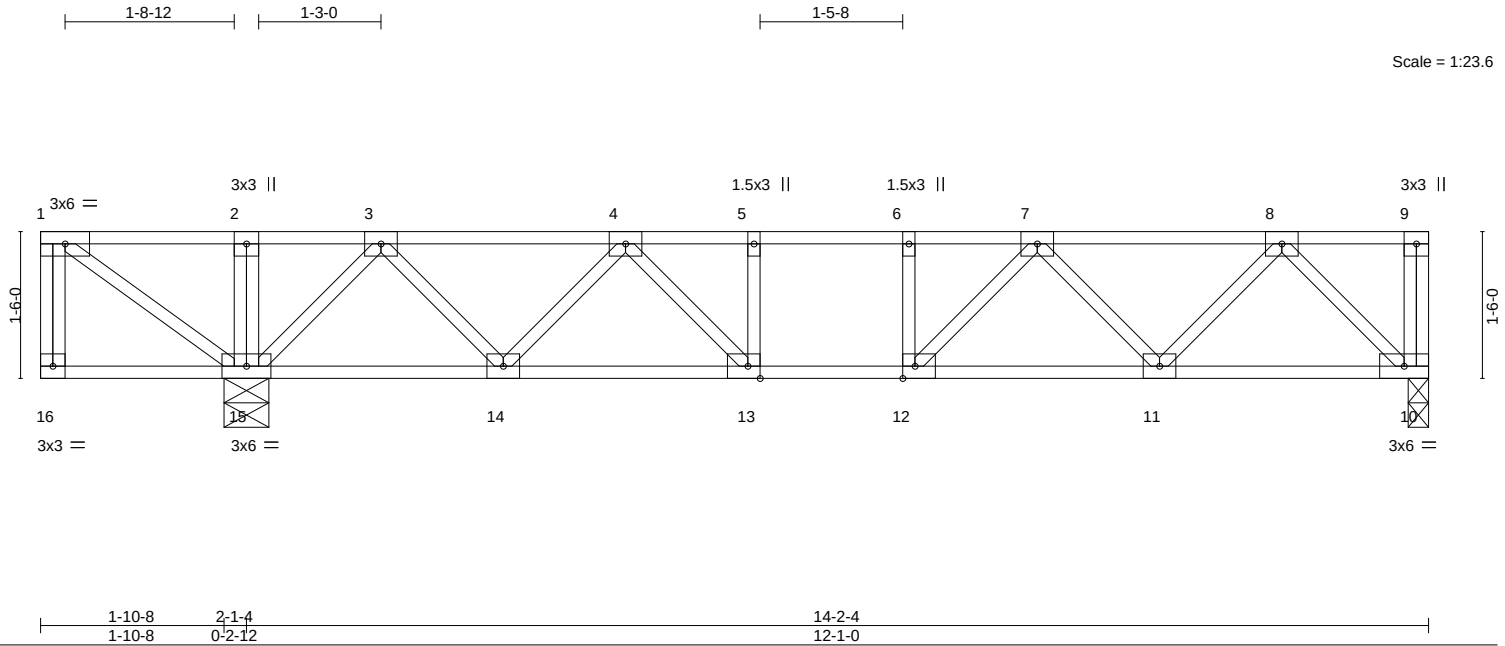

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-15: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. (size) 10=0-2-8, 15=0-5-8
Max Grav 10=751(LC 4), 15=1404(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/577, 2-3=0/576, 3-4=-945/45, 4-5=-1554/0, 5-6=-1554/0, 6-7=-1554/0, 7-8=-1081/0
BOT CHORD 14-15=-270/517, 13-14=0/1355, 12-13=0/1554, 11-12=0/1435, 10-11=0/695
WEBS 3-15=-1064/0, 3-14=0/692, 4-14=-678/0, 4-13=0/543, 5-13=-284/0, 8-10=-983/0, 8-11=0/573, 7-11=-527/0, 7-12=-119/333, 1-15=-704/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-16=-10, 1-9=-120
Concentrated Loads (lb)
Vert: 1=-300

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F2G	FLOOR GIRDER	1	1	I49485227
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:02 2021 Page 1
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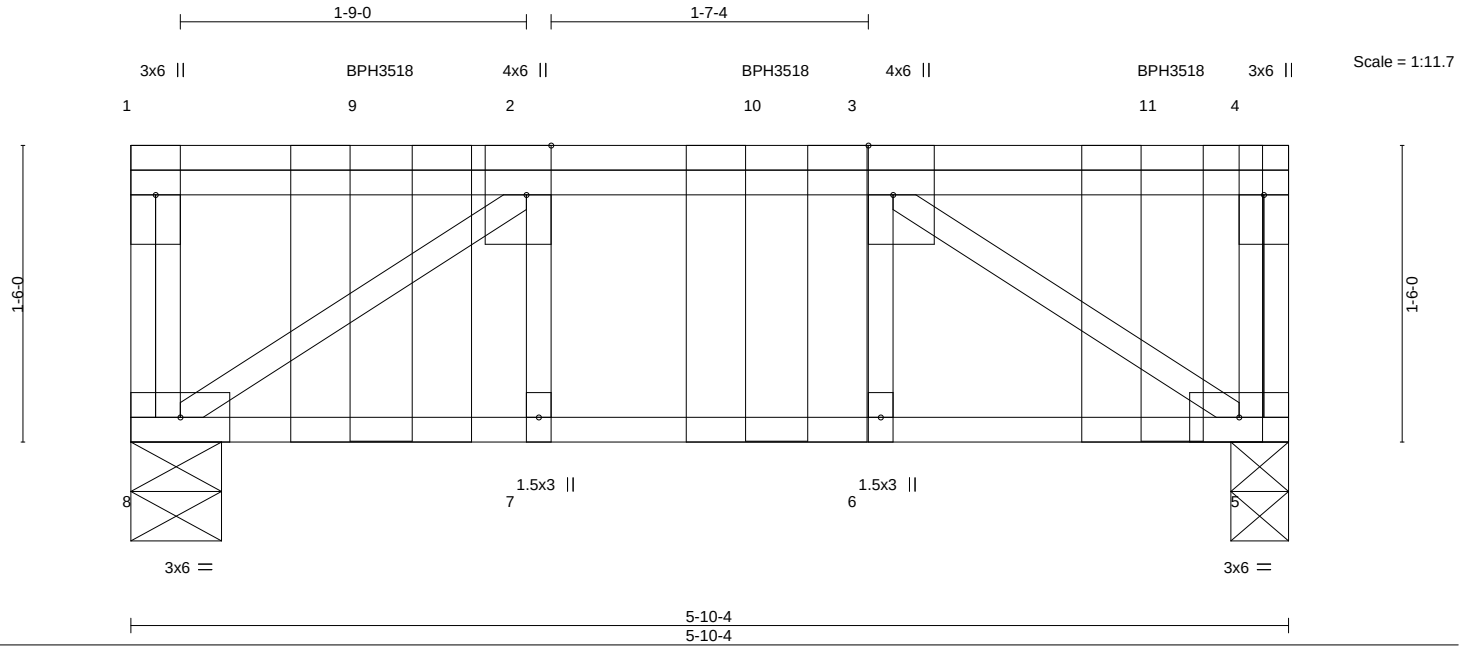

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=1654(LC 1), 5=1785(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-489/0, 4-5=-617/0, 2-3=-1760/0
BOT CHORD 7-8=0/1760, 6-7=0/1760, 5-6=0/1760
WEBS 2-8=-2126/0, 3-5=-2126/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-3 from the left end to 5-3-3 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-286(F) 10=-286(F) 11=-318(F)

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F3	Floor	4	1	I49485228
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-BXav1oIDReKcszVCIWBPlelNE_WLe7IX4oENRqy3pcI

1-3-0 0-11-4 1-6-0

Scale = 1:20.7

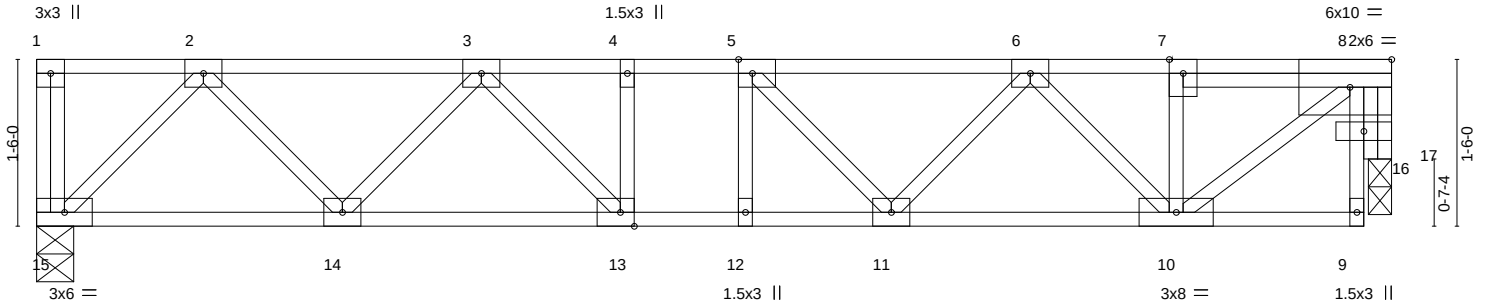

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [8:0-4-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.05	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.08	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-4-0, 17=0-2-8
Max Grav 15=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1120/0, 3-4=-1675/0, 4-5=-1675/0, 5-6=-1522/0, 6-7=-859/0, 7-8=-862/0
BOT CHORD	14-15=0/717, 13-14=0/1507, 12-13=0/1675, 11-12=0/1675, 10-11=0/1331
WEBS	2-15=-1014/0, 2-14=0/599, 3-14=-574/0, 3-13=0/381, 6-10=-684/0, 6-11=0/311, 5-11=-311/0, 8-10=0/993, 8-17=-773/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F4	Floor	3	1	I49485229
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:17 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-nDQCzaS?8x5dX7au7SRhJbKmyeHcwUcbIzd6x0y3pc4

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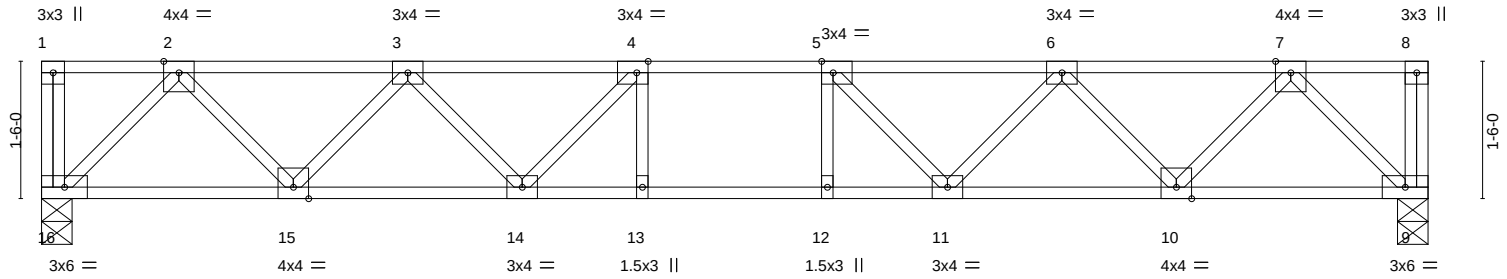

15-1-12
15-1-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.17	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-0, 9=0-4-0
Max Grav 16=968(LC 1), 9=968(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1498/0, 3-4=-2335/0, 4-5=-2605/0, 5-6=-2335/0, 6-7=-1498/0
BOT CHORD 15-16=0/907, 14-15=0/2063, 13-14=0/2605, 12-13=0/2605, 11-12=0/2605, 10-11=0/2063, 9-10=0/907
WEBS 2-16=-1282/0, 2-15=0/879, 3-15=-839/0, 3-14=0/454, 4-14=-547/0, 7-9=-1282/0, 7-10=0/879, 6-10=-839/0, 6-11=0/454, 5-11=-547/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F5	Floor	6	1	I49485230
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:29 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-QX8kVhcXJdbwzzUBqzfVo7qmpTK4ku9M2rXlLJy3pbu

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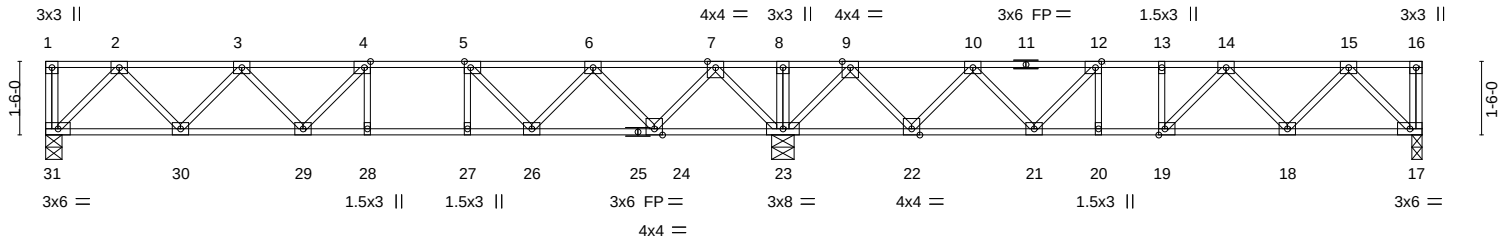

15-0-8 28-1-0
15-0-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.13	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.20	28-29	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 23=0-5-8
Max Grav 31=861(LC 3), 17=725(LC 4), 23=2132(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1295/0, 3-4=-1936/0, 4-5=-2026/0, 5-6=-1574/0, 6-7=-532/304, 7-8=0/1694, 8-9=0/1694, 9-10=-397/449, 10-12=-1212/0, 12-13=-1463/0, 13-14=-1463/0, 14-15=-1031/0
BOT CHORD 30-31=0/796, 29-30=0/1774, 28-29=0/2026, 27-28=0/2026, 26-27=0/2026, 24-26=-13/1188, 23-24=-755/0, 22-23=-749/0, 21-22=-176/952, 20-21=0/1463, 19-20=0/1463, 18-19=0/1366, 17-18=0/669
WEBS 2-31=-1126/0, 2-30=0/741, 3-30=-712/0, 7-23=-1479/0, 7-24=0/1069, 6-24=-1025/0, 6-26=0/639, 5-26=-794/0, 5-27=0/285, 4-28=-254/0, 9-23=-1336/0, 9-22=0/944, 10-22=-910/0, 10-21=0/489, 15-17=-946/0, 15-18=0/538, 14-18=-499/0, 12-21=-552/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F6	Floor	1	1	I49485231
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:31 2021 Page 1
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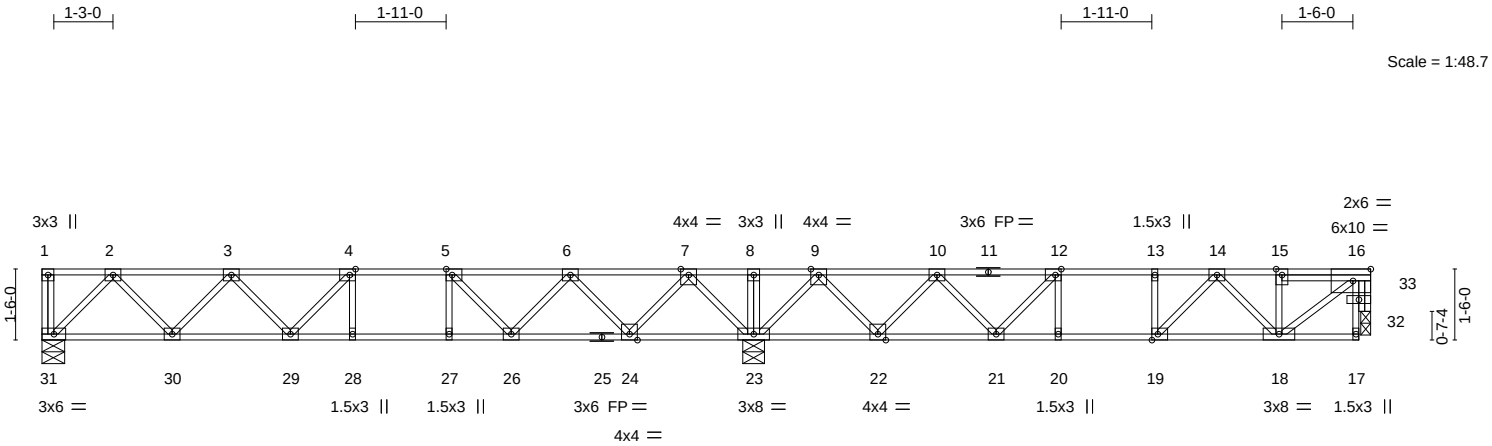

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [16:0-4-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.13	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.20	28-29	>912	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 17-25: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 23=0-5-8, 33=0-2-8
Max Grav 31=870(LC 3), 23=2126(LC 1), 33=695(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1312/0, 3-4=-1971/0, 4-5=-2075/0, 5-6=-1639/0, 6-7=-614/357, 7-8=0/1657, 8-9=0/1657, 9-10=-343/372, 10-12=-1169/0, 12-13=-1415/0, 13-14=-1415/0, 14-15=-796/0, 15-16=-799/0
BOT CHORD	30-31=0/806, 29-30=0/1798, 28-29=0/2075, 27-28=0/2075, 26-27=0/2075, 24-26=-62/1262, 23-24=-720/0, 22-23=-779/0, 21-22=-109/903, 20-21=0/1415, 19-20=0/1415, 18-19=0/1166
WEBS	2-31=-1139/0, 2-30=0/753, 3-30=-723/0, 3-29=0/256, 4-28=-261/0, 7-23=-1486/0, 7-24=0/1075, 6-24=-1031/0, 6-26=0/646, 5-26=-808/0, 5-27=0/292, 9-23=-1329/0, 9-22=0/936, 10-22=-903/0, 10-21=0/486, 12-21=-540/0, 14-18=-535/0, 14-19=-25/362, 16-18=0/924, 16-33=-713/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F7	Floor	1	1	I49485232
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:33 2021 Page 1
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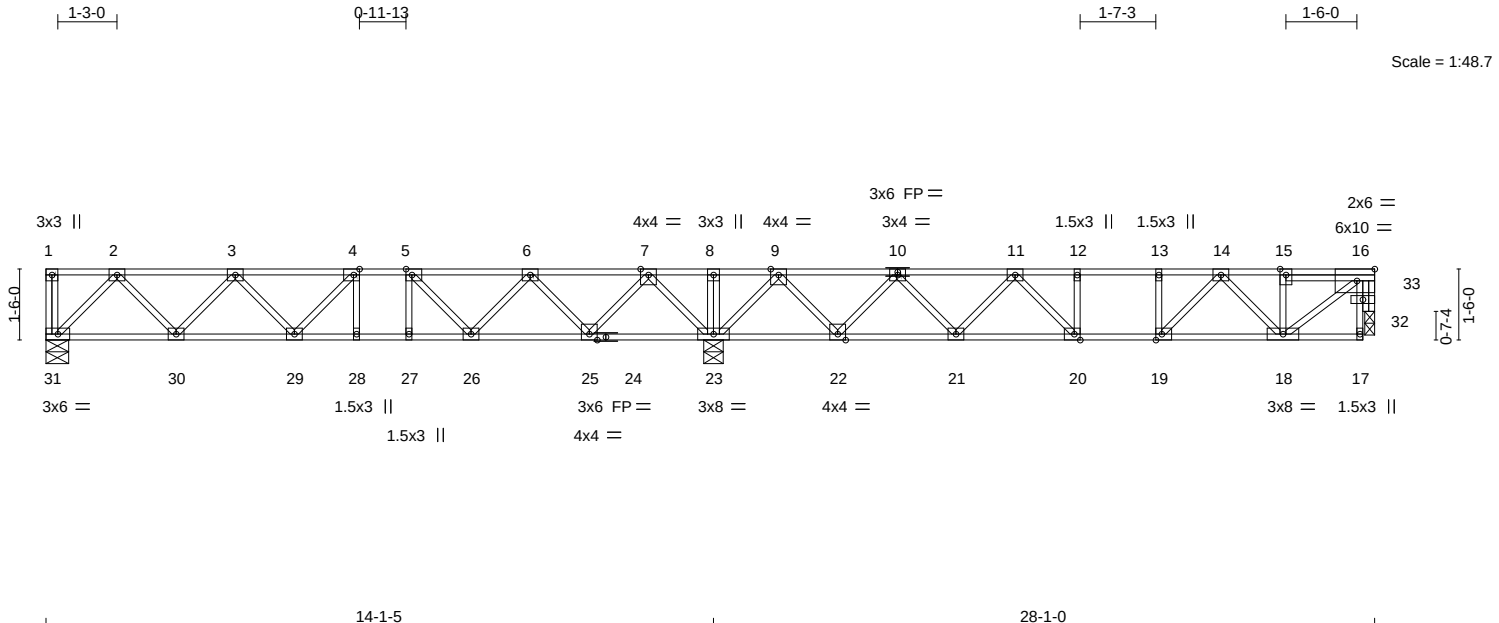

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [16:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.08	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.11	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	33	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 23=0-4-15, 33=0-2-8
Max Grav 31=782(LC 3), 23=2208(LC 1), 33=727(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1144/0, 3-4=-1640/0, 4-5=-1676/0, 5-6=-1300/135, 6-7=-337/688, 7-8=0/2011, 8-9=0/2011, 9-10=-142/515, 10-11=-1138/11, 11-12=-1537/0, 12-13=-1537/0, 13-14=-1537/0, 14-15=-838/0, 15-16=-840/0
BOT CHORD 30-31=0/718, 29-30=0/1549, 28-29=0/1676, 27-28=0/1676, 26-27=0/1676, 25-26=-371/960, 23-25=-1032/0, 22-23=-1046/0, 21-22=-212/784, 20-21=0/1456, 19-20=0/1537, 18-19=0/1237
WEBS 2-31=-1015/0, 2-30=0/634, 3-30=-601/0, 4-29=-53/263, 4-28=-275/0, 7-23=-1460/0, 7-25=0/1058, 6-25=-1019/0, 6-26=0/612, 5-26=-734/0, 5-27=0/293, 16-18=0/973, 14-18=-578/0, 14-19=0/434, 13-19=-260/0, 9-23=-1442/0, 9-22=0/1050, 10-22=-1022/0, 10-21=0/588, 11-21=-550/0, 11-20=0/435, 16-33=-745/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F8	Floor	1	1	I49485233
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:34 2021 Page 1
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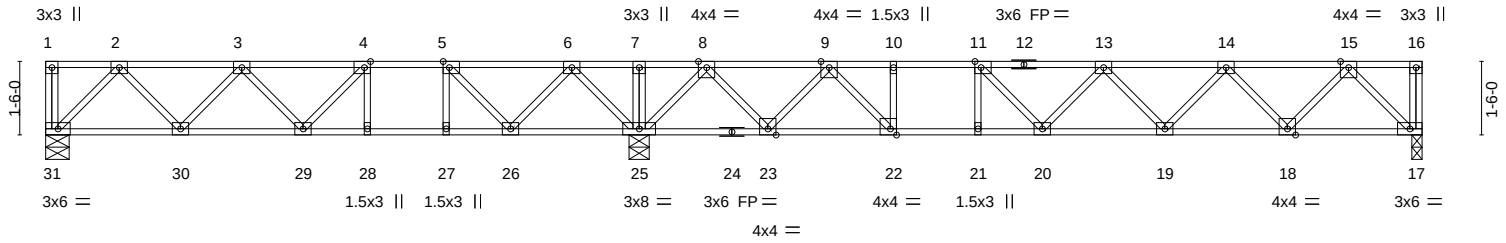
1-3-0 1-5-13 1-7-3

Scale = 1:47.0



12-1-5 28-1-0
12-1-5 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,23-25.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 25=0-4-15
Max Grav 31=723(LC 3), 17=970(LC 7), 25=1993(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1032/0, 3-4=-1416/0, 4-5=-1327/0, 5-6=-747/166, 6-7=0/998, 7-8=0/998, 8-9=-996/0, 9-10=-2354/0, 10-11=-2354/0, 11-13=-2592/0, 13-14=-2350/0, 14-15=-1499/0
BOT CHORD 30-31=0/655, 29-30=0/1392, 28-29=0/1327, 27-28=0/1327, 26-27=0/1327, 25-26=-420/272, 23-25=-77/338, 22-23=0/1715, 21-22=0/2354, 20-21=0/2354, 19-20=0/2642, 18-19=0/2055, 17-18=0/912
WEBS 2-31=-926/0, 2-30=0/560, 3-30=-536/0, 4-29=0/308, 4-28=-306/0, 6-25=-1094/0, 6-26=0/774, 5-26=-950/0, 5-27=0/334, 15-17=-1290/0, 15-18=0/872, 14-18=-827/0, 14-19=0/439, 13-19=-434/0, 11-20=0/485, 11-21=-396/0, 8-25=-1461/0, 8-23=0/1016, 9-23=-1113/0, 9-22=0/1025, 10-22=-419/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F9	Floor	1	1	I49485234
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:35 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-FhW?lkgIvTM4huyLAEmv2O4jLuM?8ZSFRn_3Zzy3pbo

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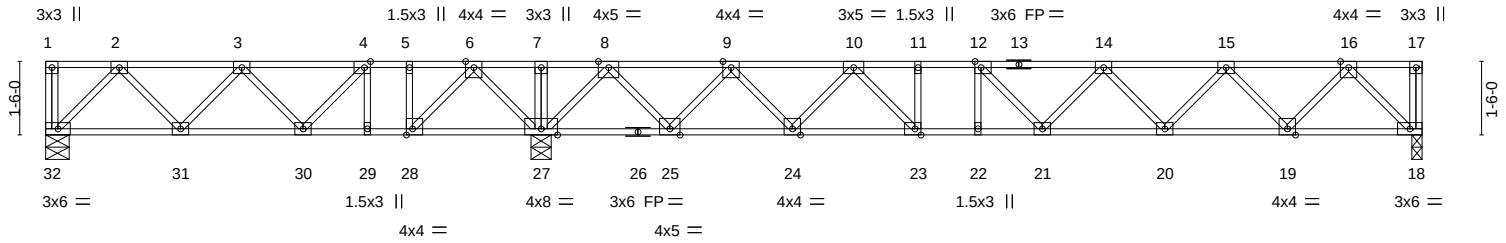
Scale = 1:47.0



10-1-5 28-1-0
10-1-5 17-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.17	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.27	21-22	>782	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
18-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-5-12, 18=0-2-8, 27=0-4-15
Max Uplift 32=-10(LC 4)
Max Grav 32=529(LC 3), 18=1015(LC 4), 27=2236(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-663/146, 3-4=-697/526, 4-5=-421/902, 5-6=-421/902, 6-7=0/1969, 7-8=0/1969, 8-9=-263/18, 9-10=-1692/0, 10-11=-2731/0, 11-12=-2731/0, 12-14=-2842/0, 14-15=-2518/0, 15-16=-1584/0
BOT CHORD 31-32=-42/462, 30-31=-268/848, 29-30=-902/421, 28-29=-902/421, 27-28=-1406/0, 25-27=-738/0, 24-25=0/1128, 23-24=0/2278, 22-23=0/2731, 21-22=0/2731, 20-21=0/2840, 19-20=0/2185, 18-19=0/956
WEBS 2-32=-653/60, 2-31=-154/299, 3-31=-275/181, 3-30=-473/0, 4-30=0/714, 4-29=-420/0, 6-27=-1177/0, 8-27=-1743/0, 8-25=0/1363, 9-25=-1295/0, 9-24=0/848, 10-24=-882/0, 10-23=0/797, 16-18=-1352/0, 16-19=0/934, 15-19=-892/0, 15-20=0/496, 14-20=-479/0, 12-21=-124/346, 12-22=-305/0, 11-23=-314/0, 6-28=0/1150, 5-28=-490/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

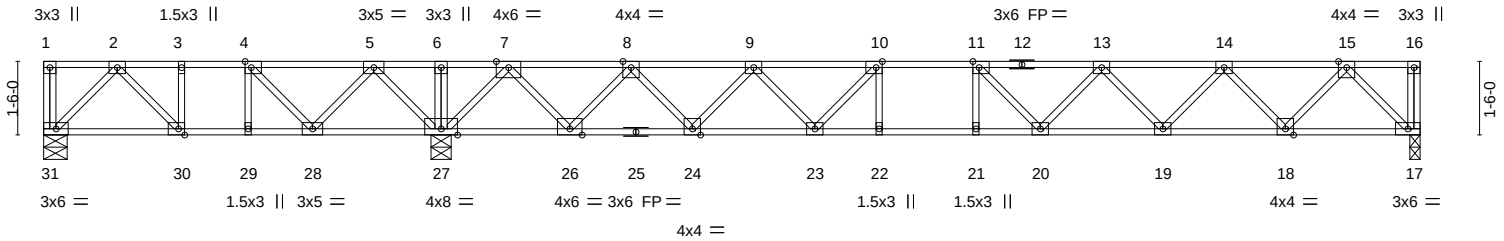
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F10	Floor	1	1	I49485235
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:39 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-uv7r?b?A5GI0_HgauTlnnal9pJI?0DW?Z3P6bDy3pcg

1-3-0 1-2-13 1-10-3

Scale = 1:47.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-1-5 28-1-0
8-1-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	20-21	>661	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-5-12, 17=0-2-8, 27=0-4-15
Max Uplift 31=-135(LC 4)
Max Grav 31=343(LC 3), 17=1157(LC 7), 27=2328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-304/533, 3-4=-304/533, 4-5=0/1047, 5-6=0/2164, 6-7=0/2164, 7-8=-436/73, 8-9=-2114/0, 9-10=-3184/0, 10-11=-3675/0, 11-13=-3628/0, 13-14=-3043/0, 14-15=-1854/0
BOT CHORD 30-31=-173/265, 29-30=-533/304, 28-29=-533/304, 27-28=-1459/0, 26-27=-811/0, 24-26=0/1418, 23-24=0/2777, 22-23=0/3675, 21-22=0/3675, 20-21=0/3675, 19-20=0/3490, 18-19=0/2584, 17-18=0/1097
WEBS 2-31=-375/244, 2-30=-522/57, 5-27=-1105/0, 5-28=0/796, 4-28=-914/0, 4-29=0/254, 15-17=-1551/0, 15-18=0/1126, 14-18=-1085/0, 14-19=0/683, 13-19=-664/0, 13-20=0/318, 11-20=-334/239, 11-21=-316/64, 7-27=-1914/0, 7-26=0/1508, 8-26=-1486/0, 8-24=0/1059, 9-24=-1007/0, 9-23=0/666, 10-23=-892/0, 10-22=-34/347

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=135.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F11	Floor	6	1	I49485236
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:40 2021 Page 1
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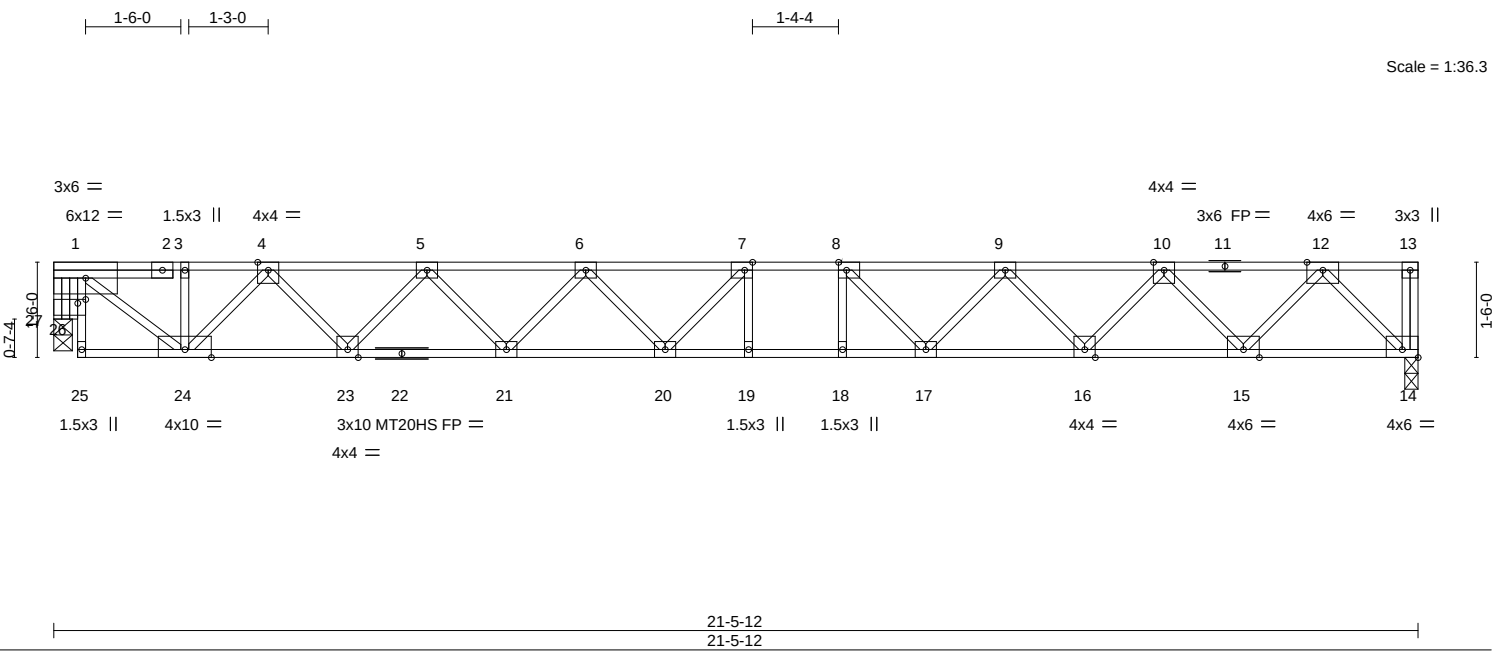

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [14:Edge,0-1-8], [26:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.32	19-20	>781	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.53	19-20	>481	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 27=0-3-8
Max Grav 14=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1678/0, 3-4=-1675/0, 4-5=-3441/0, 5-6=-4607/0, 6-7=-5165/0, 7-8=-5228/0, 8-9=-4824/0, 9-10=-3848/0, 10-12=-2266/0
BOT CHORD	23-24=0/2696, 21-23=0/4160, 20-21=0/5038, 19-20=0/5228, 18-19=0/5228, 17-18=0/5228, 16-17=0/4470, 15-16=0/3198, 14-15=0/1311
WEBS	1-24=0/1939, 12-14=-1854/0, 12-15=0/1420, 10-15=-1385/0, 10-16=0/967, 9-16=-925/0, 9-17=0/620, 8-17=-796/0, 4-24=-1479/0, 4-23=0/1107, 5-23=-1070/0, 5-21=0/664, 6-21=-640/0, 6-20=-30/380, 7-20=-443/248, 7-19=-300/147, 8-18=-123/324, 1-27=-1389/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F12	Floor	2	1	I49485237
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:41 2021 Page 1
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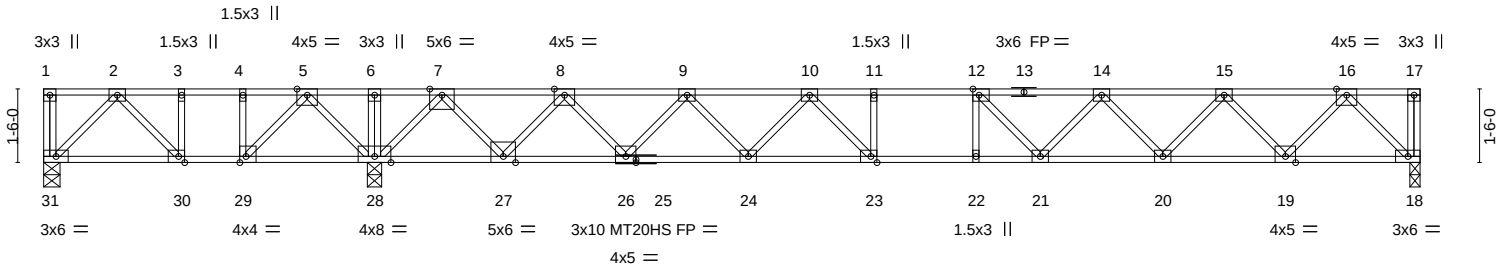
1-3-0 1-1-8 1-11-8

Scale = 1:47.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-9-0 28-1-0
6-9-0 21-4-0

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [23:0-1-8,Edge], [26:Edge,0-1-8], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.25	22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.40	22	>643	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
18-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 18=0-2-8, 28=0-3-8
Max Uplift 31=-307(LC 4)
Max Grav 31=235(LC 3), 18=1234(LC 7), 28=2442(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-44/934, 3-4=-44/934, 4-5=-44/934, 5-6=0/2351, 6-7=0/2351, 7-8=-327/0, 8-9=-2181/0, 9-10=-3422/0, 10-11=-4217/0, 11-12=-4217/0, 12-14=-4055/0, 14-15=-3330/0, 15-16=-2001/0
BOT CHORD 30-31=-334/160, 29-30=-934/44, 28-29=-1679/0, 27-28=-908/0, 26-27=0/1393, 24-26=0/2944, 23-24=0/3899, 22-23=0/4217, 21-22=0/4217, 20-21=0/3841, 19-20=0/2802, 18-19=0/1173
WEBS 16-18=-1659/0, 16-19=0/1231, 15-19=-1191/0, 15-20=0/784, 14-20=-759/0, 14-21=0/443, 12-21=-500/99, 7-28=-2040/0, 7-27=0/1645, 8-27=-1600/0, 8-26=0/1185, 9-26=-1146/0, 9-24=0/722, 10-24=-724/0, 10-23=0/755, 11-23=-359/0, 2-31=-226/473, 2-30=-869/0, 3-30=0/485, 5-28=-1129/0, 5-29=0/1237, 4-29=-699/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=307.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F13	Floor	6	1	I49485238
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:41 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-qIFbQH1QdtYkDbqz0uoFs?reu75DUFTI0NuCf5y3pce

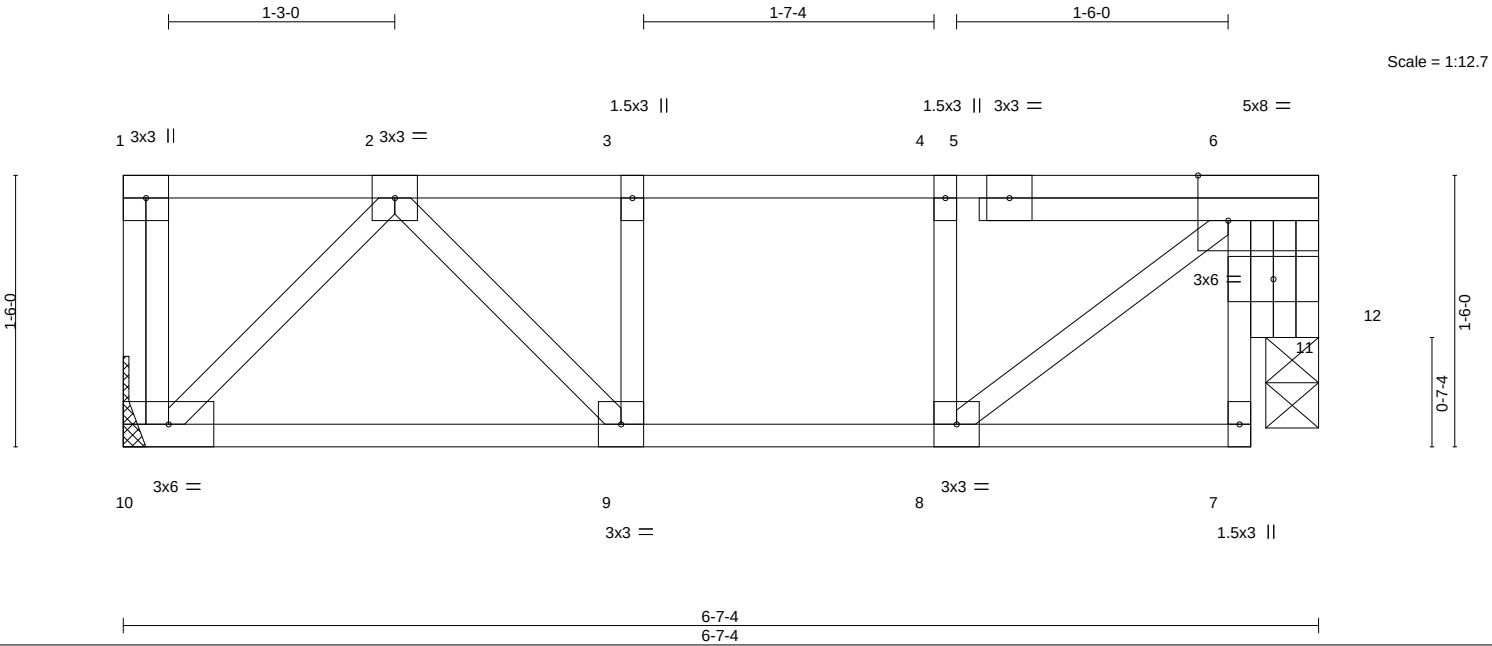

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=406(LC 1), 12=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-439/0, 3-4=-439/0, 4-6=-441/0
BOT CHORD 9-10=0/325, 8-9=0/439
WEBS 2-10=-460/0, 6-8=0/505, 4-8=-270/0, 6-12=-392/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

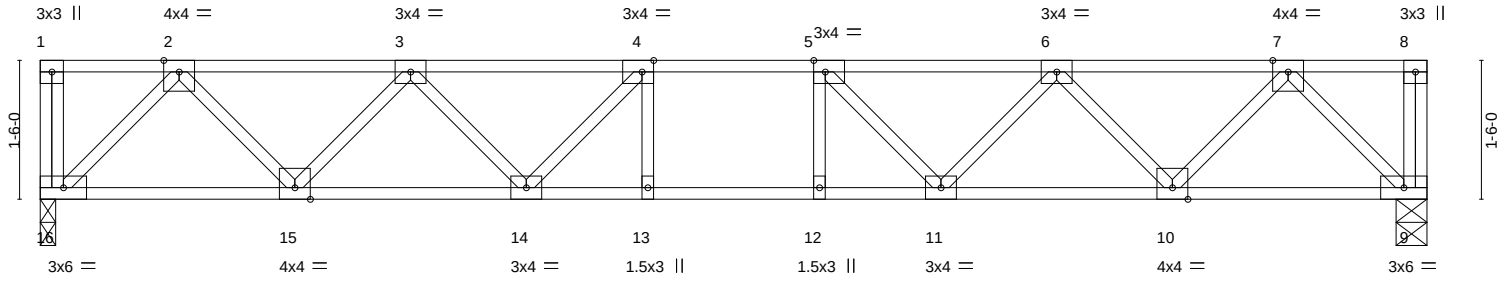
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F14	Floor	3	1	I49485239
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:42 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-IUpzdc12OBhbrlP9abJUODNnhXGmDe2SF1emCYy3pcd

1-3-0 1-8-12

Scale = 1:24.9



14-11-12
14-11-12

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.11	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.17	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-4-0
Max Grav 16=957(LC 1), 9=957(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1477/0, 3-4=-2295/0, 4-5=-2552/0, 5-6=-2295/0, 6-7=-1477/0
BOT CHORD 15-16=0/896, 14-15=0/2033, 13-14=0/2552, 12-13=0/2552, 11-12=0/2552, 10-11=0/2033, 9-10=0/896
WEBS 2-16=-1267/0, 2-15=0/865, 3-15=-826/0, 3-14=0/440, 4-14=-521/0, 7-9=-1267/0, 7-10=0/865, 6-10=-826/0, 6-11=0/440, 5-11=-521/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F15	Floor	6	1	I49485240
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:43 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-mgNLry2g9VpSSvzM7JqjxQwvQwd5y4qbUhNJk_y3pcc

1-3-0 1-9-0 1-2-0

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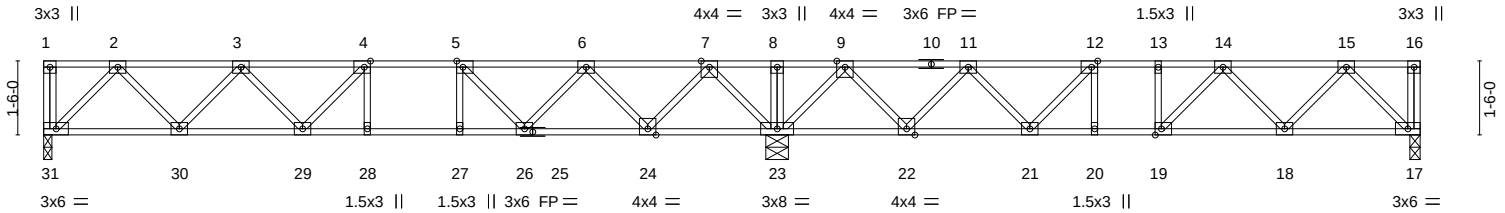

14-10-8 27-11-0
14-10-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.11	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.18	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=847(LC 3), 17=722(LC 4), 23=2130(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1268/0, 3-4=-1883/0, 4-5=-1961/0, 5-6=-1524/0, 6-7=-496/333, 7-8=0/1691, 8-9=0/1691, 9-11=-374/467, 11-12=-1195/0, 12-13=-1450/0, 13-14=-1450/0, 14-15=-1025/0
BOT CHORD 30-31=0/782, 29-30=0/1734, 28-29=0/1961, 27-28=0/1961, 26-27=0/1961, 24-26=-42/1146, 23-24=-763/0, 22-23=-768/0, 21-22=-191/931, 20-21=0/1450, 19-20=0/1450, 18-19=0/1358, 17-18=0/666
WEBS 2-31=-1106/0, 2-30=0/722, 3-30=-692/0, 7-23=-1470/0, 7-24=0/1063, 6-24=-1019/0, 6-26=0/628, 5-26=-776/0, 5-27=0/284, 4-28=-257/0, 15-17=-941/0, 15-18=0/534, 14-18=-494/0, 9-23=-1335/0, 9-22=0/944, 11-22=-910/0, 11-21=0/489, 12-21=-557/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F16	Floor	1	1	I49485241
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:45 2021 Page 1
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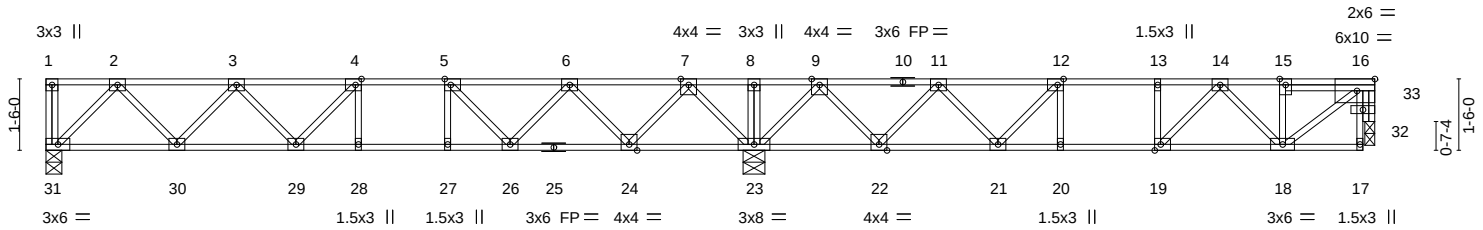
1-3-0 1-9-0 1-11-0 1-6-0

Scale: 1/4"=1'



14-10-8 27-11-0
14-10-8 13-0-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [16:0-4-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.11	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.18	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	33	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-25: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 23=0-5-8, 33=0-2-8
Max Grav 31=857(LC 3), 23=2123(LC 1), 33=692(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1287/0, 3-4=-1921/0, 4-5=-2016/0, 5-6=-1594/0, 6-7=-586/385, 7-8=0/1687, 8-9=0/1687, 9-11=-322/382, 11-12=-1153/0, 12-13=-1404/0, 13-14=-1404/0, 14-15=-793/0, 15-16=-796/0
BOT CHORD 30-31=0/793, 29-30=0/1761, 28-29=0/2016, 27-28=0/2016, 26-27=0/2016, 24-26=-88/1227, 23-24=-726/0, 22-23=-806/0, 21-22=-118/885, 20-21=0/1404, 19-20=0/1404, 18-19=0/1159
WEBS 2-31=-1121/0, 2-30=0/736, 3-30=-705/0, 4-28=-263/0, 7-23=-1476/0, 7-24=0/1068, 6-24=-1024/0, 6-26=0/634, 5-26=-789/0, 5-27=0/291, 9-23=-1328/0, 9-22=0/935, 11-22=-902/0, 11-21=0/485, 12-21=-543/0, 16-18=0/920, 14-18=-531/0, 14-19=-28/355, 16-33=-710/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F17	Floor	1	1	I49485242
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:46 2021 Page 1
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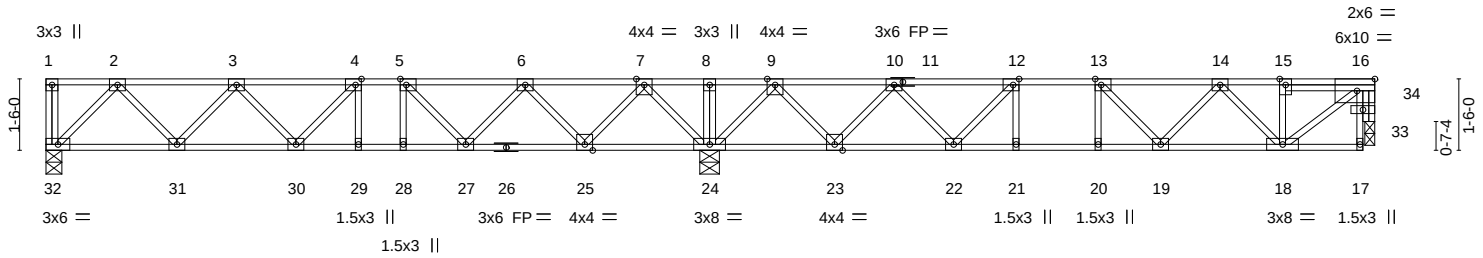
1-3-0 0-9-13 1-7-3 1-6-0

Scale: 1/4"=1'



13-11-5 27-11-0
13-11-5 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [16:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.09	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.13	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	34	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-4-0, 24=0-4-15, 34=0-2-8
Max Grav 32=781(LC 3), 24=2142(LC 1), 34=755(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1143/0, 3-4=-1637/0, 4-5=-1684/0, 5-6=-1338/0, 6-7=-414/467, 7-8=0/1768, 8-9=0/1768, 9-10=-369/422, 10-12=-1306/0, 12-13=-1667/0, 13-14=-1527/0, 14-15=-859/0, 15-16=-863/0
BOT CHORD	31-32=0/718, 30-31=0/1545, 29-30=0/1684, 28-29=0/1684, 27-28=0/1684, 25-27=-175/1018, 24-25=-784/0, 23-24=-863/0, 22-23=-138/978, 21-22=0/1667, 20-21=0/1667, 19-20=0/1667, 18-19=0/1339
WEBS	2-32=-1015/0, 2-31=0/632, 3-31=-597/0, 7-24=-1413/0, 7-25=0/1016, 6-25=-978/0, 6-27=0/563, 5-27=-653/0, 5-28=0/265, 16-18=0/993, 9-24=-1408/0, 9-23=0/1008, 10-23=-967/0, 10-22=0/564, 12-22=-677/0, 14-18=-695/0, 14-19=0/279, 16-34=-775/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

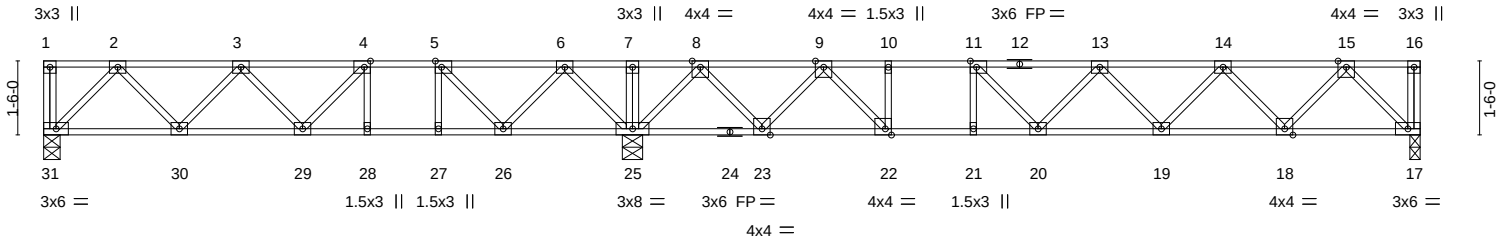
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F18	Floor	1	1	I49485243
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:48 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-7eAEug6pz1RlZgsJwsQueUdi8xMndLEKdz54PBy3pcX

1-3-0 1-3-13 1-7-3

Scale = 1:46.7



11-11-5 27-11-0
11-11-5 15-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.17	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.27	20-21	>696	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 12-16: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 17-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,23-25.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 25=0-4-15
Max Grav 31=704(LC 3), 17=962(LC 7), 25=1999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-996/0, 3-4=-1347/0, 4-5=-1247/0, 5-6=-680/210, 6-7=0/1034, 7-8=0/1034, 8-9=-918/0, 9-10=-2296/0, 10-11=-2296/0, 11-13=-2547/0, 13-14=-2320/0, 14-15=-1483/0
BOT CHORD 30-31=0/637, 29-30=0/1339, 28-29=0/1247, 27-28=0/1247, 26-27=0/1247, 25-26=-465/210, 23-25=-132/252, 22-23=0/1645, 21-22=0/2296, 20-21=0/2296, 19-20=0/2605, 18-19=0/2032, 17-18=0/904
WEBS 2-31=-901/0, 2-30=0/535, 3-30=-509/0, 4-29=0/327, 4-28=-310/0, 6-25=-1098/0, 6-26=0/770, 5-26=-934/0, 5-27=0/336, 15-17=-1279/0, 15-18=0/861, 14-18=-816/0, 14-19=0/428, 13-19=-424/0, 11-20=0/499, 11-21=-402/0, 8-25=-1466/0, 8-23=0/1020, 9-23=-1117/0, 9-22=0/1037, 10-22=-424/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F19	Floor	1	1	I49485244
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:49 2021 Page 1
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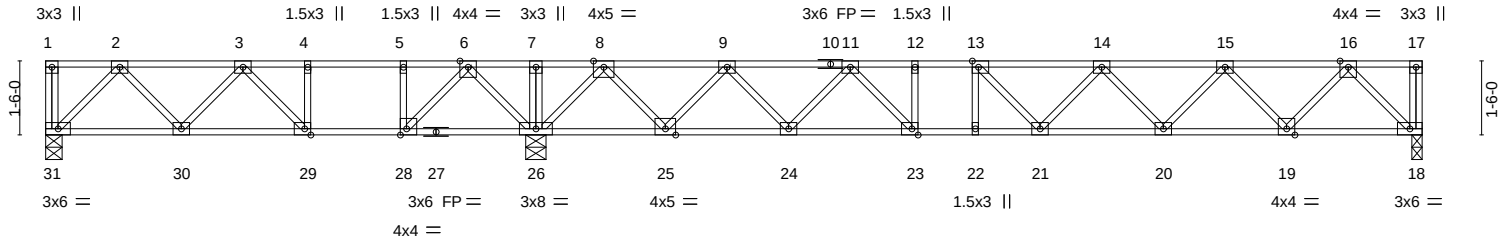
1-3-0 1-9-13 1-1-3

Scale = 1:46.7



9-11-5 27-11-0
9-11-5 17-11-11

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [23:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.18	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.29	21-22	>735	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 18=0-2-8, 26=0-4-15
Max Grav 31=590(LC 3), 18=1078(LC 7), 26=2056(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-788/0, 3-4=-824/410, 4-5=-824/410, 5-6=-824/410, 6-7=0/1378, 7-8=0/1378, 8-9=-957/0, 9-11=-2274/0, 11-12=-3166/0, 12-13=-3166/0, 13-14=-3190/0, 14-15=-2751/0, 15-16=-1704/0
BOT CHORD 30-31=0/534, 29-30=-82/982, 28-29=-410/824, 26-28=-910/251, 24-25=0/1766, 23-24=0/2793, 22-23=0/3166, 21-22=0/3166, 20-21=0/3126, 19-20=0/2362, 18-19=0/1018
WEBS 2-31=-756/0, 2-30=-40/378, 3-30=-288/140, 3-29=-545/0, 4-29=0/254, 6-26=-979/0, 6-28=0/1119, 5-28=-638/0, 16-18=-1440/0, 16-19=0/1019, 15-19=-978/0, 15-20=0/578, 14-20=-557/0, 13-22=-261/23, 8-26=-1668/0, 8-25=0/1299, 9-25=-1239/0, 9-24=0/788, 11-24=-809/0, 11-23=0/703, 12-23=-281/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F20	Floor	1	1	I49485245
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:51 2021 Page 1
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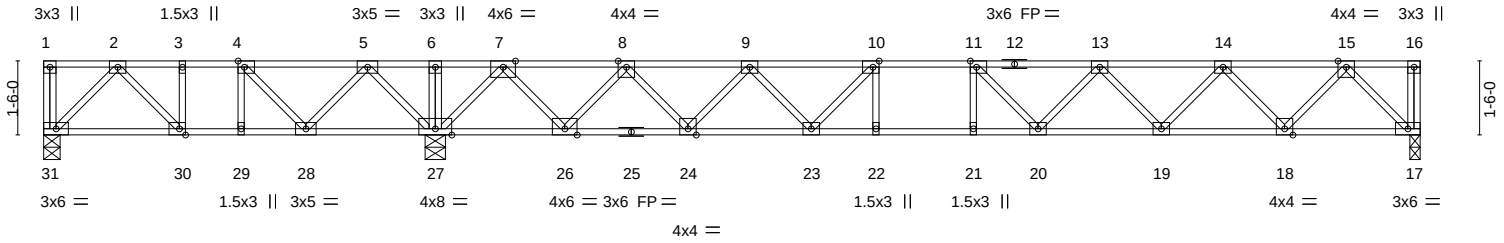
1-3-0 1-0-13 1-10-3

Scale = 1:46.7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-11-5 27-11-0
7-11-5 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.36	20-21	>664	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-25: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 17=0-2-8, 27=0-4-15
Max Uplift 31=-168(LC 4)
Max Grav 31=324(LC 3), 17=1148(LC 7), 27=2352(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/592, 3-4=-268/592, 4-5=0/1123, 5-6=0/2260, 6-7=0/2260, 7-8=-325/95, 8-9=-2019/0, 9-10=-3105/0, 10-11=-3611/0, 11-13=-3579/0, 13-14=-3010/0, 14-15=-1837/0
BOT CHORD 29-30=-592/268, 28-29=-592/268, 27-28=-1556/0, 26-27=-899/0, 24-26=0/1315, 23-24=0/2689, 22-23=0/3611, 21-22=0/3611, 20-21=0/3611, 19-20=0/3450, 18-19=0/2559, 17-18=0/1088
WEBS 2-31=-349/289, 2-30=-561/31, 5-27=-1130/0, 5-28=0/814, 4-28=-927/0, 4-29=0/262, 3-30=-29/265, 15-17=-1539/0, 15-18=0/1114, 14-18=-1072/0, 14-19=0/672, 13-19=-653/0, 13-20=0/308, 11-20=-318/248, 11-21=-321/56, 7-27=-1924/0, 7-26=0/1517, 8-26=-1495/0, 8-24=0/1067, 9-24=-1015/0, 9-23=0/671, 10-23=-901/0, 10-22=-26/352

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 31=168.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F21	Floor	6	1	I49485246
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:52 2021 Page 1
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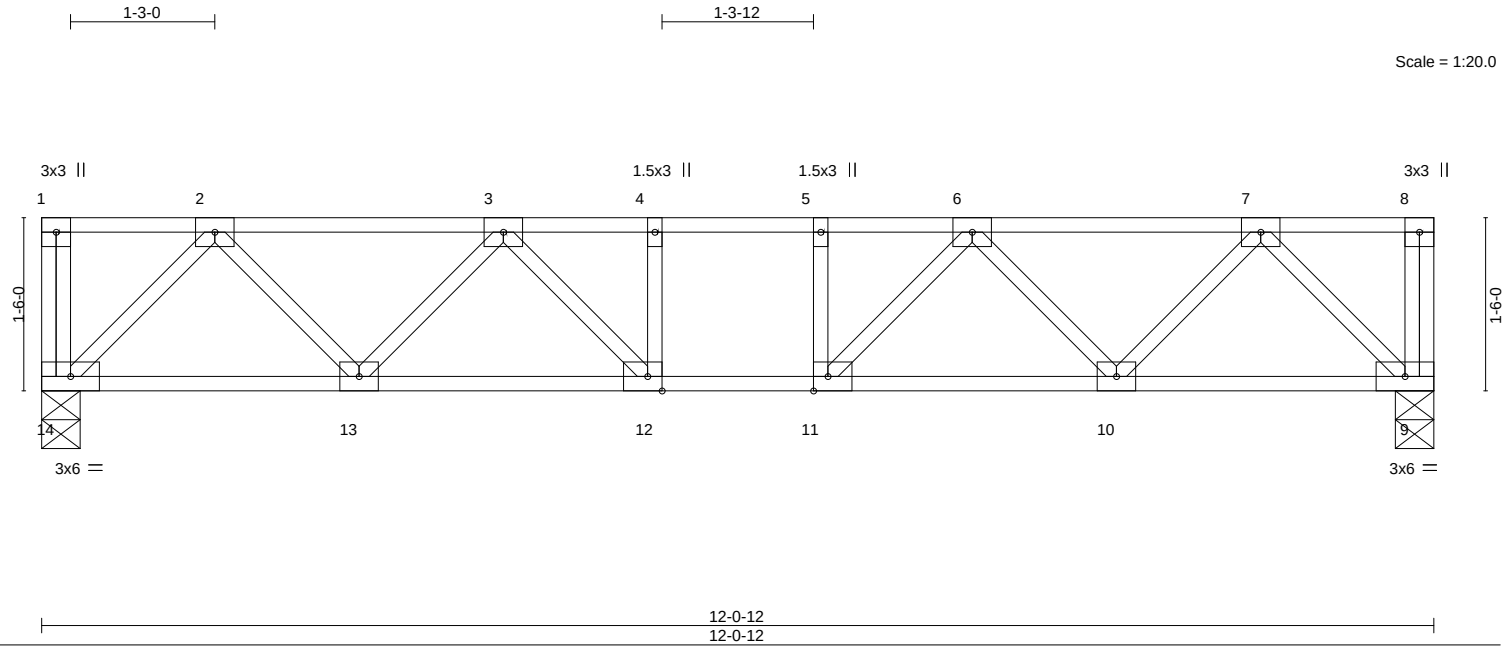

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F22	FLOOR	5	1	I49485247
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:53 2021 Page 1
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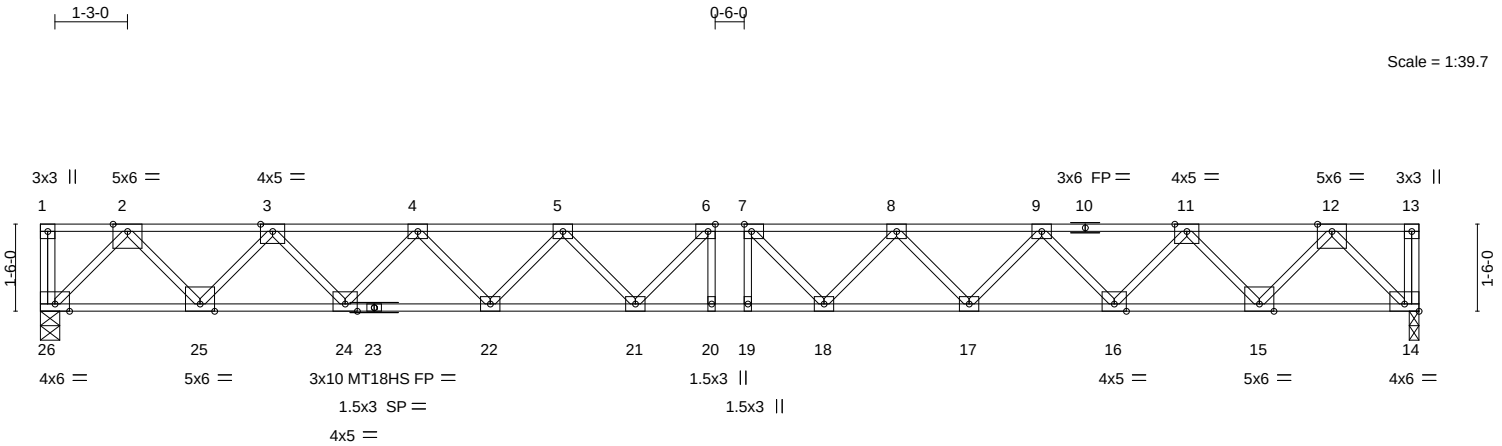

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.47	20	>606	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.76	20	>373	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-4-0, 14=0-2-0
Max Grav 26=1527(LC 1), 14=1528(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2561/0, 3-4=-4420/0, 4-5=-5688/0, 5-6=-6357/0, 6-7=-6538/0, 7-8=-6356/0, 8-9=-5689/0, 9-11=-4420/0, 11-12=-2561/0
BOT CHORD	25-26=0/1465, 24-25=0/3631, 22-24=0/5187, 21-22=0/6166, 20-21=0/6538, 19-20=0/6538, 18-19=0/6538, 17-18=0/6166, 16-17=0/5188, 15-16=0/3631, 14-15=0/1465
WEBS	2-26=-2072/0, 2-25=0/1629, 3-25=-1590/0, 3-24=0/1173, 4-24=-1141/0, 4-22=0/744, 5-22=-710/0, 5-21=-27/465, 6-21=-527/134, 12-14=-2072/0, 12-15=0/1629, 11-15=-1591/0, 11-16=0/1173, 9-16=-1142/0, 9-17=0/745, 8-17=-709/0, 8-18=-27/464, 7-18=-527/134

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

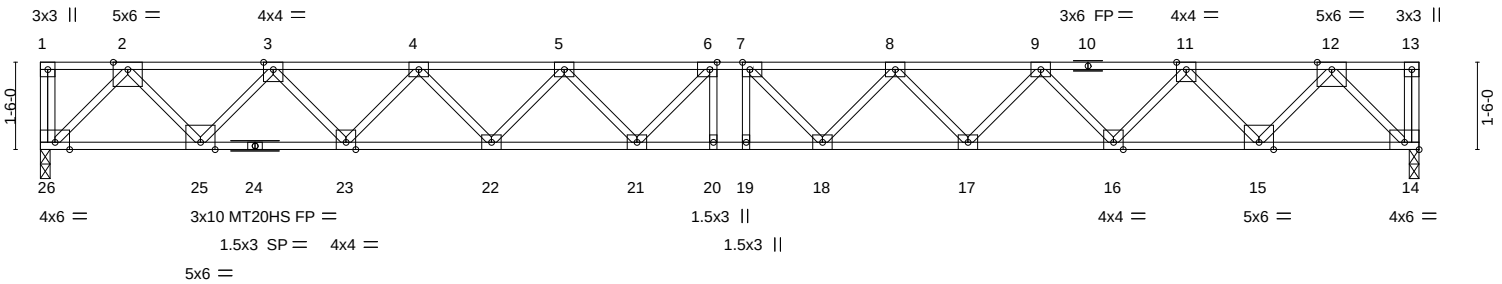
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F23	FLOOR	12	1	I49485248
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:54 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-yoXW8jBaZtBuHbJTH7XIuItjRMMK1_MD?uYPdry3pcR

1-3-0 0-5-4

Scale = 1:39.6



23-8-4
23-8-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.46	20	>613	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.75	20	>377	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-2-0, 14=0-2-0
Max Grav 26=1523(LC 1), 14=1523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2554/0, 3-4=-4404/0, 4-5=-5666/0, 5-6=-6327/0, 6-7=-6506/0, 7-8=-6327/0, 8-9=-5666/0, 9-11=-4404/0, 11-12=-2553/0
BOT CHORD 25-26=0/1461, 23-25=0/3619, 22-23=0/5168, 21-22=0/6139, 20-21=0/6506, 19-20=0/6506, 18-19=0/6506, 17-18=0/6139, 16-17=0/5169, 15-16=0/3619, 14-15=0/1461
WEBS 2-26=-2066/0, 2-25=0/1624, 3-25=-1584/0, 3-23=0/1166, 4-23=-1136/0, 4-22=0/740, 5-22=-704/0, 5-21=-32/459, 6-21=-515/133, 12-14=-2066/0, 12-15=0/1623, 11-15=-1585/0, 11-16=0/1167, 9-16=-1136/0, 9-17=0/739, 8-17=-703/0, 8-18=-32/459, 7-18=-515/133

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

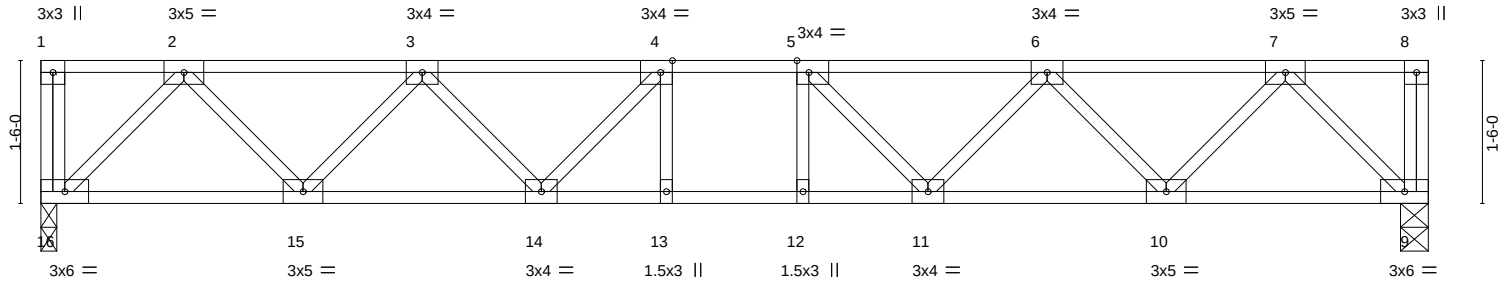
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F24	Floor	5	1	I49485249
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:55 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Q_5uM3BCKBJlulufqq2XQyQ?emkgmXXMEYHy9Hy3pcQ

1-3-0 1-3-11

Scale: 1/2"=1'



14-6-11
14-6-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1426/0, 3-4=-2191/0, 4-5=-2419/0, 5-6=-2191/0, 6-7=-1426/0
BOT CHORD 15-16=0/868, 14-15=0/1957, 13-14=0/2419, 12-13=0/2419, 11-12=0/2419, 10-11=0/1957, 9-10=0/868
WEBS 2-16=-1228/0, 2-15=0/829, 3-15=-790/0, 3-14=0/398, 4-14=-461/0, 7-9=-1228/0, 7-10=0/829, 6-10=-790/0, 6-11=0/398, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F25	FLOOR	2	1	I49485250
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:56 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-uAfGZPCq5URcWuTsOYZmzAy5tA4jVs8VTC1Vhky3pcP

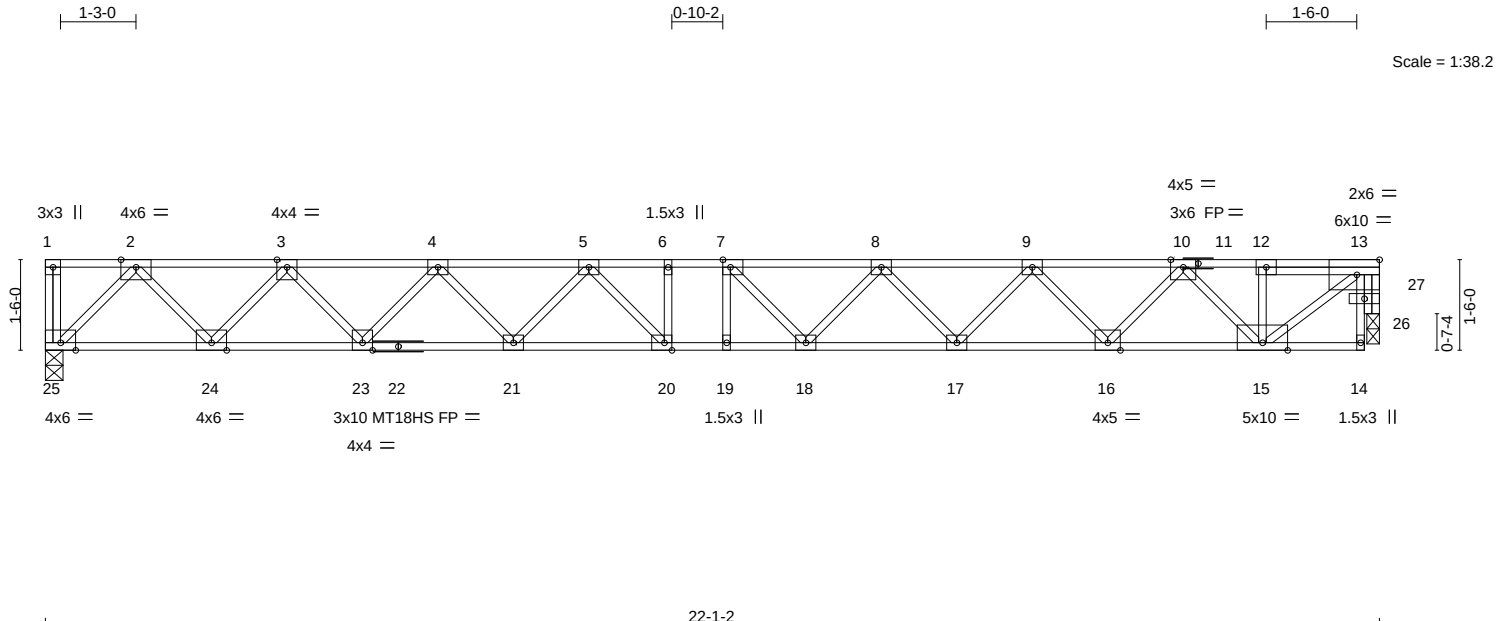

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [13:0-4-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.35	19	>740	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.57	19	>456	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 123 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-25,13-14: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-3-8, 27=0-2-8
Max Grav 25=1418(LC 1), 27=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2353/0, 3-4=-4017/0, 4-5=-5075/0, 5-6=-5615/0, 6-7=-5615/0, 7-8=-5470/0, 8-9=-4819/0, 9-10=-3560/0, 10-12=-1700/0, 12-13=-1703/0
BOT CHORD	24-25=0/1357, 23-24=0/3323, 21-23=0/4686, 20-21=0/5452, 19-20=0/5615, 18-19=0/5615, 17-18=0/5290, 16-17=0/4327, 15-16=0/2769
WEBS	2-25=-1919/0, 2-24=0/1481, 3-24=-1443/0, 3-23=0/1031, 4-23=-995/0, 4-21=0/579, 5-21=-569/0, 5-20=-158/548, 13-15=0/1990, 10-15=-1549/0, 10-16=0/1176, 9-16=-1140/0, 9-17=0/730, 8-17=-701/0, 8-18=-4/439, 7-18=-489/150, 13-27=-1431/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F26	FLOOR	5	1	I49485251
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:57 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-MNDenIDSsoZT8222yF4?VNVFOaP2EM9fism3EAy3pcO

1-3-0 1-4-2

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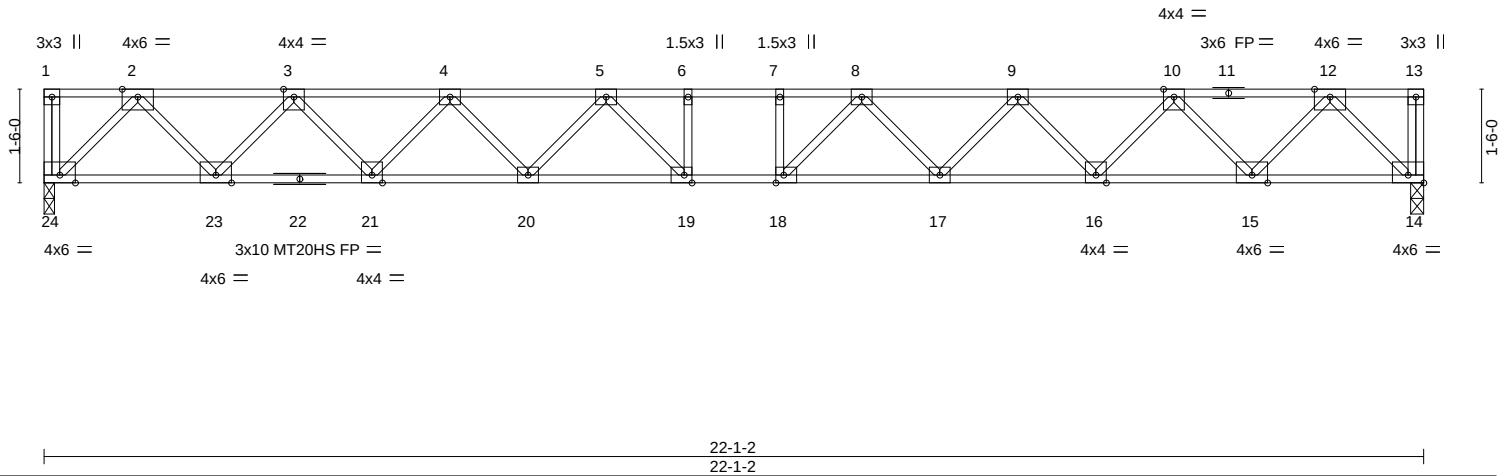

22-1-2
22-1-2

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.37	18-19	>699	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.61	18-19	>431	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-2-0, 14=0-2-8
Max Grav 24=1420(LC 1), 14=1420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2356/0, 3-4=-4020/0, 4-5=-5087/0, 5-6=-5609/0, 6-7=-5609/0, 7-8=-5609/0, 8-9=-5087/0, 9-10=-4021/0, 10-12=-2355/0
BOT CHORD 23-24=0/1358, 21-23=0/3327, 20-21=0/4694, 19-20=0/5457, 18-19=0/5609, 17-18=0/5457, 16-17=0/4693, 15-16=0/3327, 14-15=0/1358
WEBS 2-24=-1921/0, 2-23=0/1483, 3-23=-1443/0, 3-21=0/1031, 4-21=-1001/0, 4-20=0/585, 5-20=-571/0, 5-19=-176/579, 6-19=-274/20, 12-14=-1921/0, 12-15=0/1482, 10-15=-1444/0, 10-16=0/1031, 9-16=-1000/0, 9-17=0/585, 8-17=-571/0, 8-18=-176/579, 7-18=-274/20

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F27	Floor	5	1	I49485252
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:57 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-MNDenlDSsoZT8222yF4?VNVN4aWWETifism3EAy3pcO

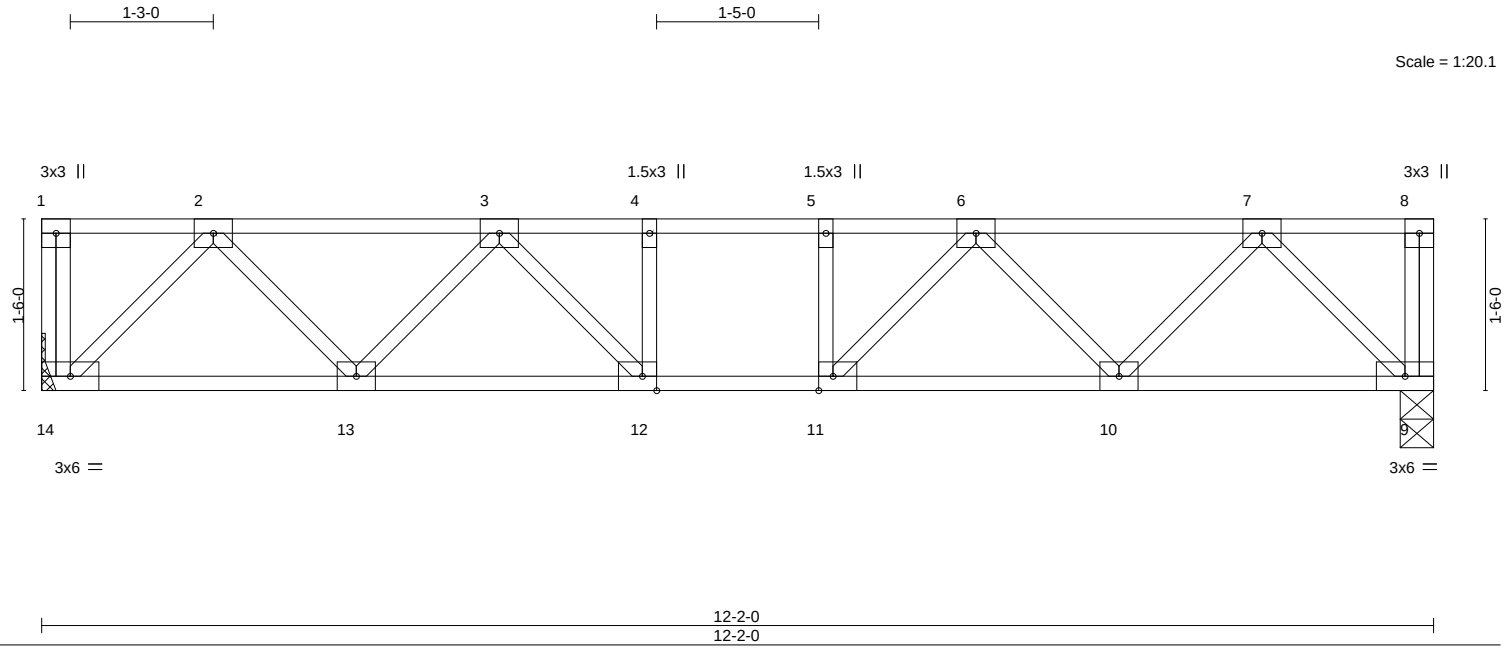

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-3-8
Max Grav 14=775(LC 1), 9=775(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1124/0, 3-4=-1658/0, 4-5=-1658/0, 5-6=-1658/0, 6-7=-1124/0
BOT CHORD 13-14=0/719, 12-13=0/1503, 11-12=0/1658, 10-11=0/1503, 9-10=0/719
WEBS 2-14=-1016/0, 2-13=0/603, 3-13=-563/0, 3-12=0/385, 7-9=-1016/0, 7-10=0/603, 6-10=-563/0, 6-11=0/385

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F28	Floor	2	1	I49485253
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:33:59 2021 Page 1
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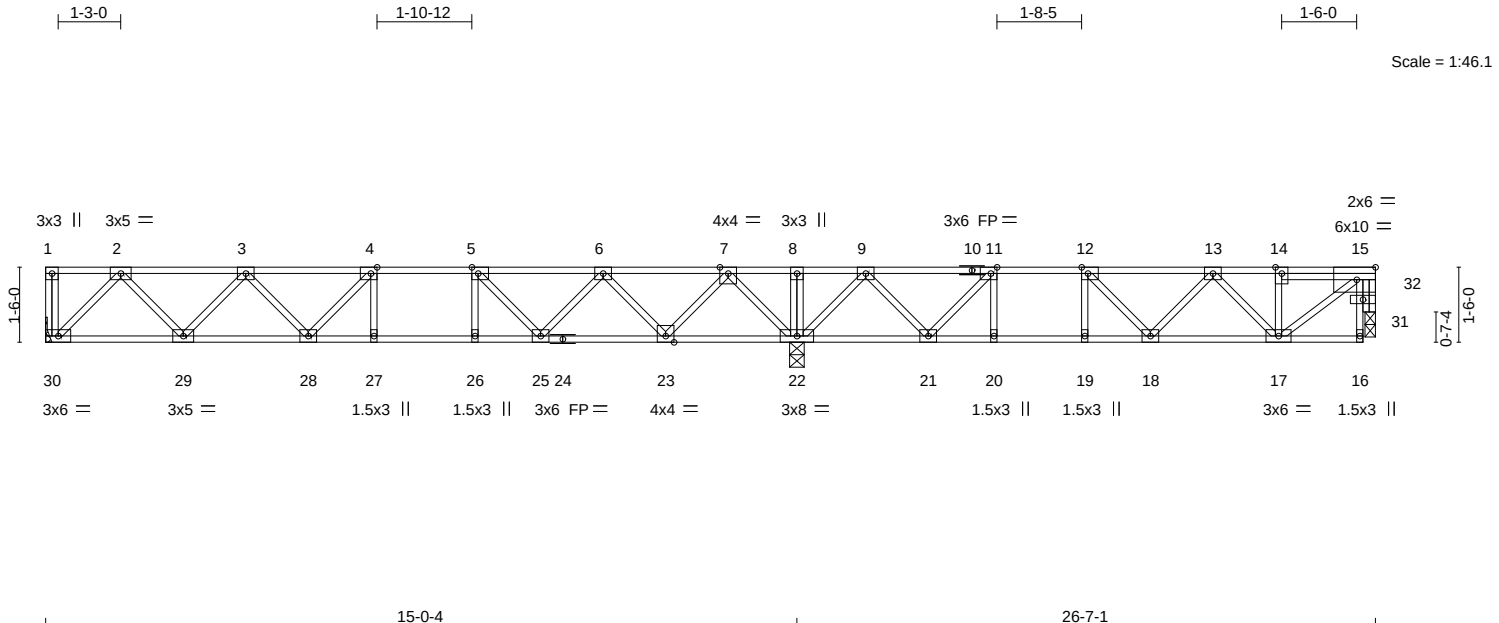

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.12	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.18	27-28	>980	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	32	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 147 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22.

REACTIONS. (size) 30=Mechanical, 22=0-3-8, 32=0-2-8
Max Grav 30=901(LC 10), 22=1913(LC 1), 32=666(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1369/0, 3-4=-2083/0, 4-5=-2239/0, 5-6=-1858/0, 6-7=-890/0, 7-8=0/1089, 8-9=0/1089, 9-11=-711/253, 11-12=-1240/0, 12-13=-1247/0, 13-14=-739/0, 14-15=-742/0

BOT CHORD 29-30=0/837, 28-29=0/1879, 27-28=0/2239, 26-27=0/2239, 25-26=0/2239, 23-25=0/1514, 21-22=-513/273, 20-21=0/1240, 19-20=0/1240, 18-19=0/1240, 17-18=0/1150

WEBS 2-30=-1183/0, 2-29=0/792, 3-29=-758/0, 3-28=0/308, 4-28=-317/0, 7-22=-1405/0, 7-23=0/1004, 6-23=-967/0, 6-25=0/565, 5-25=-651/0, 15-17=0/849, 13-17=-595/0, 12-19=-294/0, 9-22=-1075/0, 9-21=0/755, 11-21=-930/0, 11-20=0/321, 15-32=-685/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 32 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F29	Floor	5	1	I49485254
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:00 2021 Page 1
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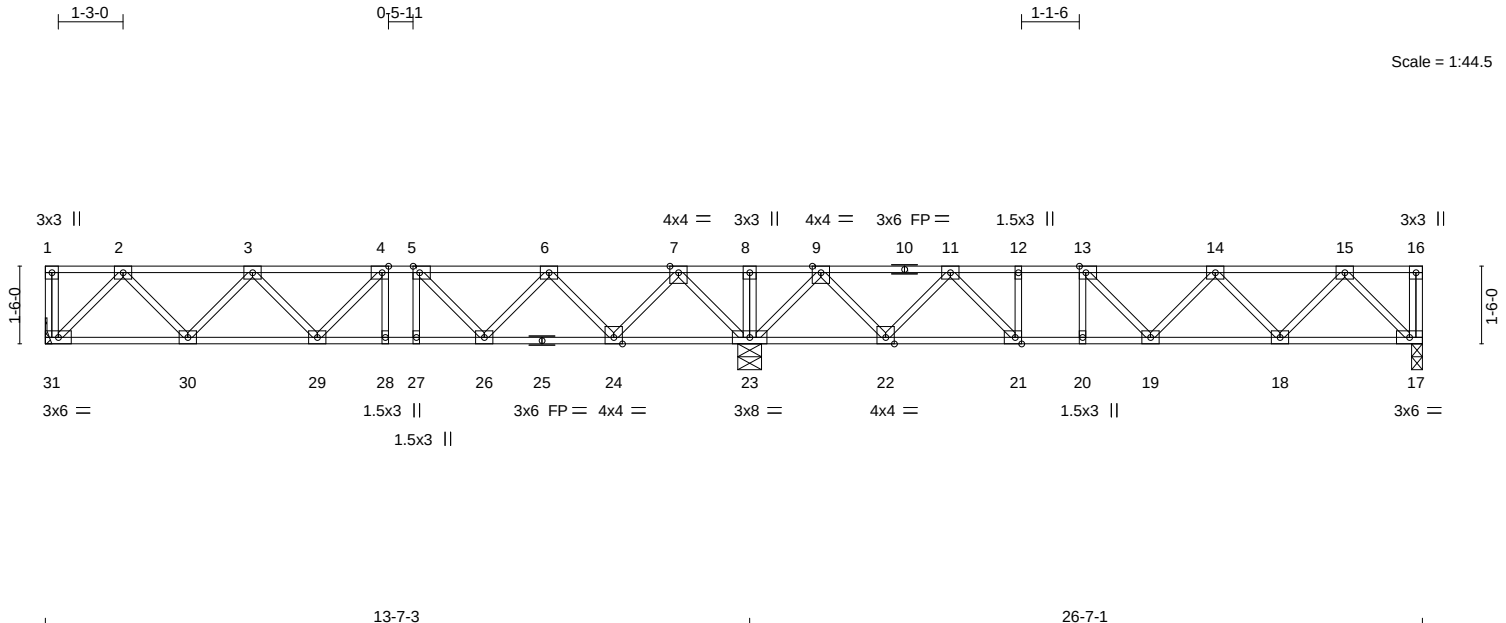

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [21:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.07	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.12	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 148 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=759(LC 3), 17=731(LC 4), 23=2033(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/0, 3-4=-1556/0, 4-5=-1598/0, 5-6=-1286/0, 6-7=-400/282, 7-8=0/1511, 8-9=0/1511, 9-11=-442/439, 11-12=-1393/0, 12-13=-1393/0, 13-14=-1448/0, 14-15=-1047/0
BOT CHORD 30-31=0/697, 29-30=0/1479, 28-29=0/1598, 27-28=0/1598, 26-27=0/1598, 24-26=-14/987, 23-24=-617/0, 22-23=-724/0, 21-22=-152/995, 20-21=0/1393, 19-20=0/1393, 18-19=0/1411, 17-18=0/665
WEBS 2-31=-985/0, 2-30=0/600, 3-30=-564/0, 7-23=-1350/0, 7-24=0/955, 6-24=-925/0, 6-26=0/501, 5-26=-555/0, 9-23=-1305/0, 9-22=0/878, 11-22=-910/0, 11-21=0/762, 15-17=-940/0, 15-18=0/569, 14-18=-541/0, 13-19=0/302, 13-20=-268/0, 12-21=-318/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F30	Floor	10	1	I49485255
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:03 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-BXav1oIDReKcszVCIWBPlelIB_Sle3LX4oENRqy3pcI

1-3-0 1-9-12

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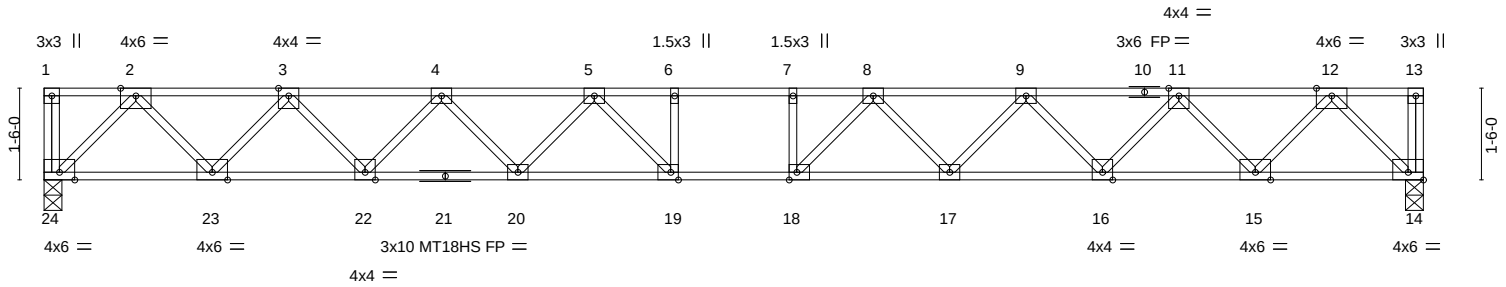

22-6-12
22-6-12

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>700	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.62	18-19	>431	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4135/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 22-23=0/3413, 20-22=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1486/0, 3-22=0/1073, 4-22=-1041/0, 4-20=0/624, 5-20=-613/0, 5-19=-154/674, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6, 6-19=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F30G	FLOOR GIRDER	2	1	I49485256
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:05 2021 Page 1
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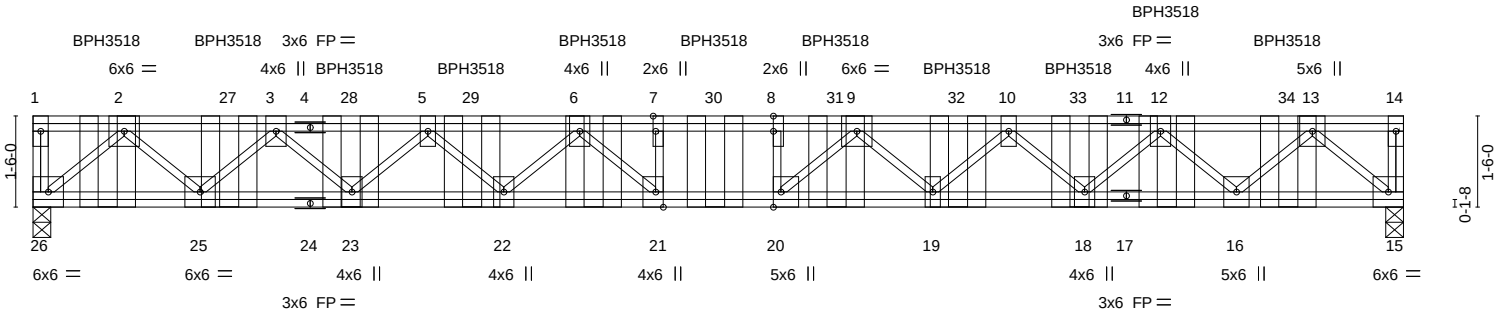

22-6-12
22-6-12

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [8:0-3-0,0-0-0], [20:0-3-0,Edge], [21:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.34	20-21	>798	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.42	21-22	>644	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 181 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-11,4-14: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 15-24,17-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except* 1-26,14-15: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,23-25.

REACTIONS. (size) 26=0-3-8, 15=0-3-8
Max Uplift 15=-561(LC 9)
Max Grav 26=1611(LC 1), 15=1298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2880/0, 3-5=-4779/142, 5-6=-5846/669, 6-7=-5908/2023, 7-8=-5908/2023, 8-9=-5908/2023, 9-10=-4941/2640, 10-12=-3815/2351, 12-13=-2255/1355
BOT CHORD 25-26=0/1696, 23-25=0/4036, 22-23=-345/5512, 21-22=-1121/6108, 20-21=-2023/5908, 19-20=-2581/5434, 18-19=-2669/4469, 16-18=-2105/3125, 15-16=-624/1363
WEBS 2-26=-2292/0, 2-25=-21/1674, 3-25=-1634/69, 3-23=-291/1051, 5-23=-1036/287, 5-22=-537/472, 6-22=-379/814, 6-21=-1889/0, 7-21=0/896, 13-15=-1842/843, 13-16=-1035/1262, 12-16=-1230/1060, 12-18=-475/976, 10-18=-925/554, 10-19=-28/667, 9-19=-699/0, 9-20=0/1423, 8-20=-527/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=561.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 20-8-0 to connect truss(es) to front face of top chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-10, 1-14=-120

December 31,2021

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F30G	FLOOR GIRDER	2	1	I49485256 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 2=-80(F) 6=-80(F) 12=95(F) 27=-80(F) 28=-80(F) 29=-80(F) 30=95(F) 31=95(F) 32=95(F) 33=95(F) 34=-80(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F31	Floor	12	1	I49485257
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:05 2021 Page 1
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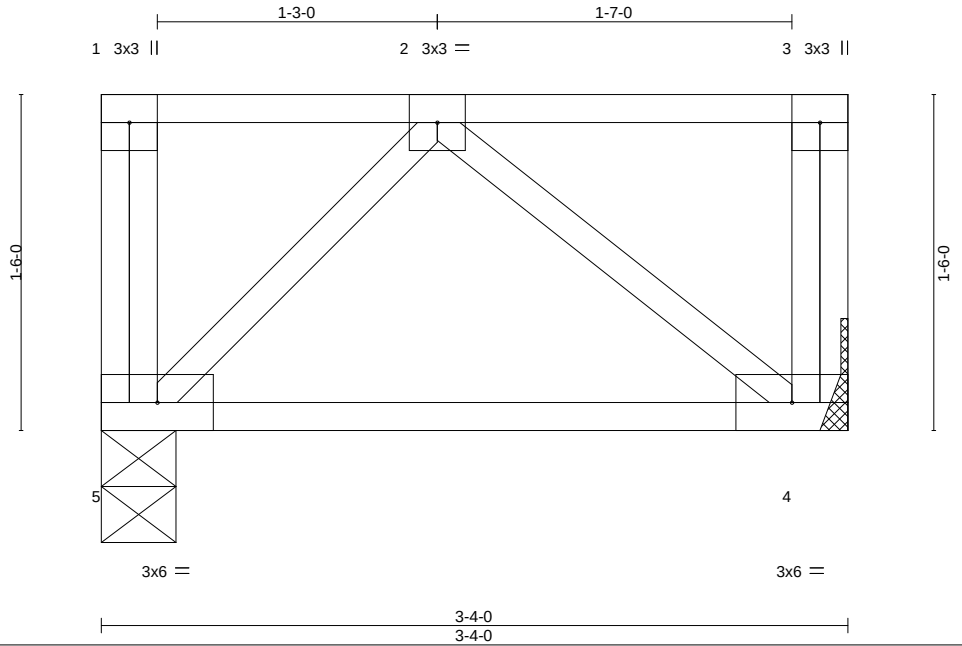

Scale = 1:10.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 2-4: 2x4 SP No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=200(LC 1), 4=200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

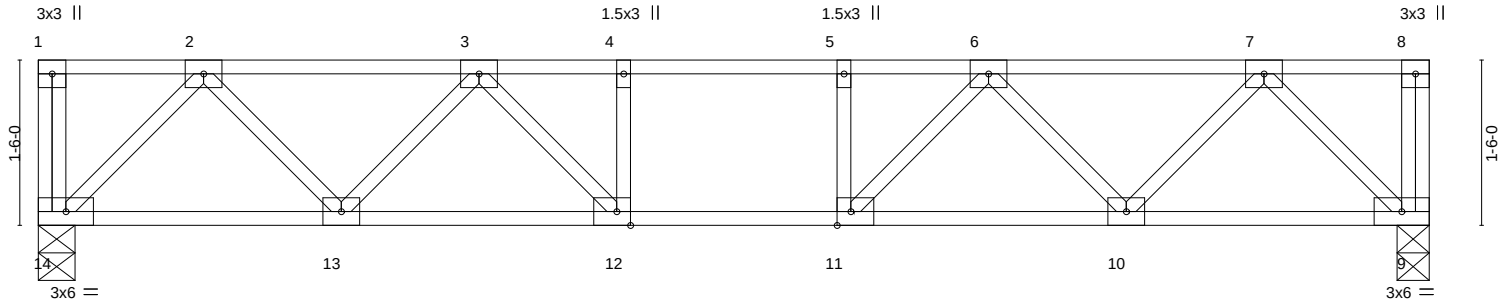
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F32	FLOOR	5	1	I49485258
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:06 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-b6F2gqK6kZiBjREn_ek6NHNuhCYIrXe_mmS129y3pcF

1-3-0 1-10-8

Scale = 1:20.9



12-7-8
12-7-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-3-8
Max Grav 14=804(LC 1), 9=804(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1180/0, 3-4=-1780/0, 4-5=-1780/0, 5-6=-1780/0, 6-7=-1180/0
BOT CHORD 13-14=0/749, 12-13=0/1585, 11-12=0/1780, 10-11=0/1585, 9-10=0/749
WEBS 2-14=-1059/0, 2-13=0/641, 3-13=-601/0, 3-12=0/455, 4-12=-256/0, 7-9=-1059/0, 7-10=0/641, 6-10=-601/0, 6-11=0/455, 5-11=-256/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F33	Floor	2	1	I49485259
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:07 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4IpQtALkVtq2LbpzXLFLvUw?DcofawW7?QCbaby3pcE

1-3-0 1-1-5 1-8-5 1-6-0

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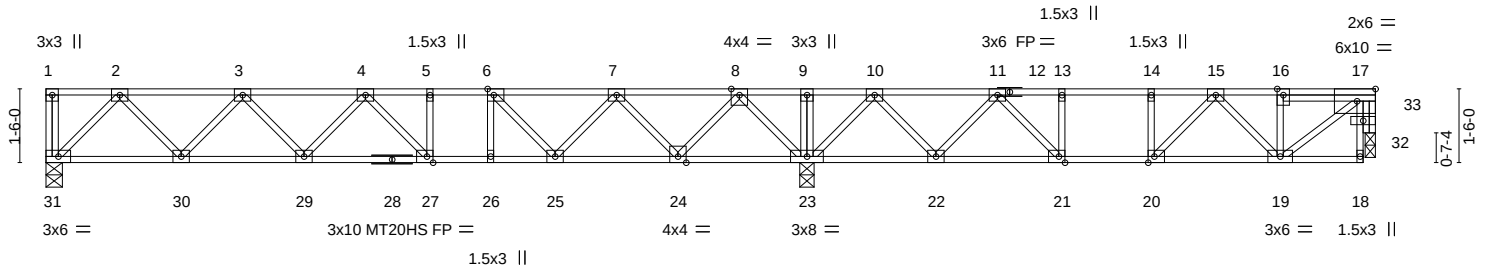

15-5-13 27-0-10
15-5-13 11-6-13

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.11	27-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.18	27-29	>999	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-4-0, 23=0-3-8, 33=0-2-8
Max Grav 31=896(LC 10), 23=2053(LC 1), 33=614(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1357/0, 3-4=-2078/0, 4-5=-2144/0, 5-6=-2144/0, 6-7=-1689/0, 7-8=-602/133, 8-9=0/1558, 9-10=0/1558, 10-11=-374/499, 11-13=-1099/0, 13-14=-1099/0, 14-15=-1099/0, 15-16=-695/0, 16-17=-698/0
BOT CHORD	30-31=0/834, 29-30=0/1859, 27-29=0/2253, 26-27=0/2144, 25-26=0/2144, 24-25=0/1281, 23-24=-492/0, 22-23=-766/0, 21-22=-229/828, 20-21=0/1099, 19-20=0/983
WEBS	2-31=-1180/0, 2-30=0/777, 3-30=-747/0, 3-29=0/326, 4-29=-260/0, 8-23=-1508/0, 8-24=0/1096, 7-24=-1058/0, 7-25=0/663, 6-25=-757/0, 4-27=-378/77, 17-19=0/803, 15-19=-417/0, 10-23=-1199/0, 10-22=0/777, 11-22=-786/0, 11-21=0/646, 13-21=-337/0, 17-33=-630/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F34	Floor	1	1	I49485260
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:09 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0gxAIrM_1U4mauzLfmIp_v?LWPWA2rYQSkhhfTy3pcC

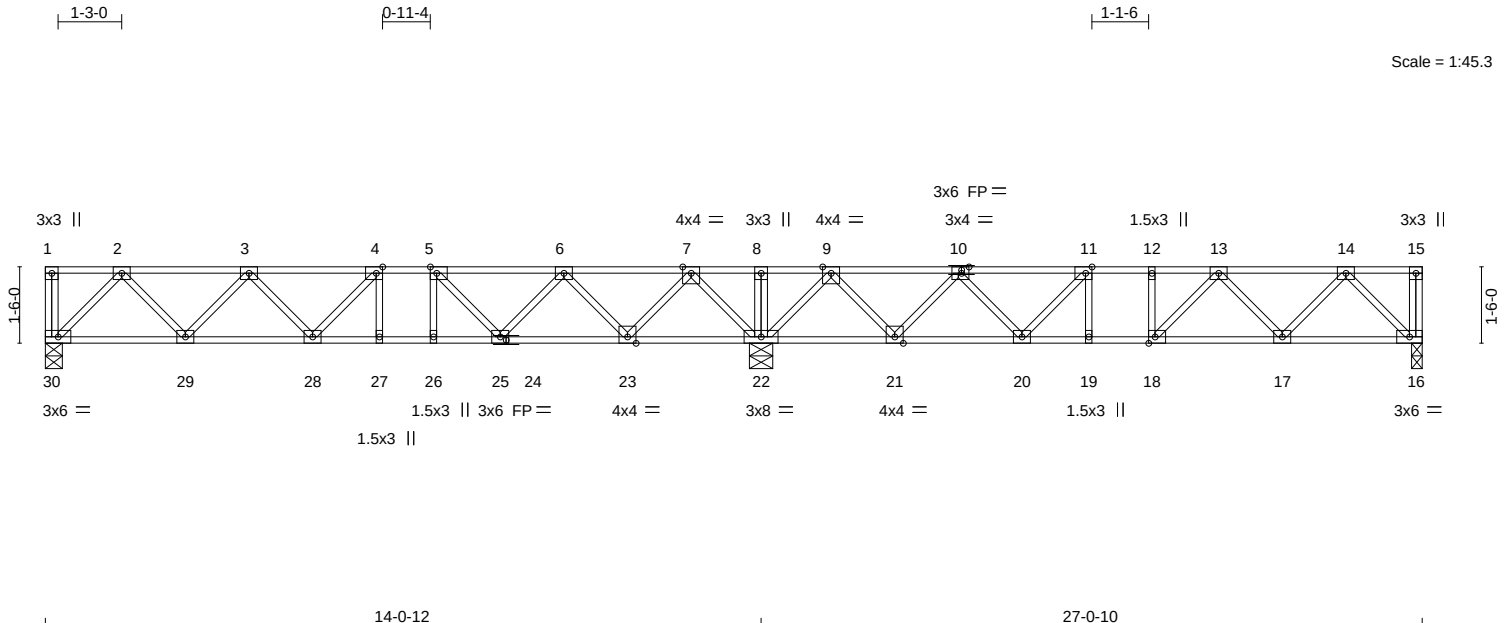

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-12,Edge], [10:0-1-12,Edge], [11:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.07	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.11	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 30=0-4-0, 16=0-2-8, 22=0-5-8
Max Grav 30=782(LC 3), 16=706(LC 4), 22=2109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1145/0, 3-4=-1641/0, 4-5=-1681/0, 5-6=-1313/0, 6-7=-362/451, 7-8=0/1764, 8-9=0/1764, 9-10=-280/515, 10-11=-1117/38, 11-12=-1385/0, 12-13=-1385/0, 13-14=-996/0
BOT CHORD 29-30=0/718, 28-29=0/1549, 27-28=0/1681, 26-27=0/1681, 25-26=0/1681, 23-25=-159/979, 22-23=-776/0, 21-22=-859/0, 20-21=-234/844, 19-20=0/1385, 18-19=0/1385, 17-18=0/1313, 16-17=0/650
WEBS 2-30=-1016/0, 2-29=0/634, 3-29=-600/0, 7-22=-1422/0, 7-23=0/1024, 6-23=-985/0, 6-25=0/573, 5-25=-674/0, 5-26=0/268, 9-22=-1343/0, 9-21=0/951, 10-21=-917/0, 10-20=0/497, 14-16=-919/0, 14-17=0/514, 13-17=-472/0, 11-20=-566/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F35	Floor	4	1	I49485261
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:10 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-UtVZVBNcooCdC2XYDUp2X7YWFptxnIqZhOQFBwy3pcB

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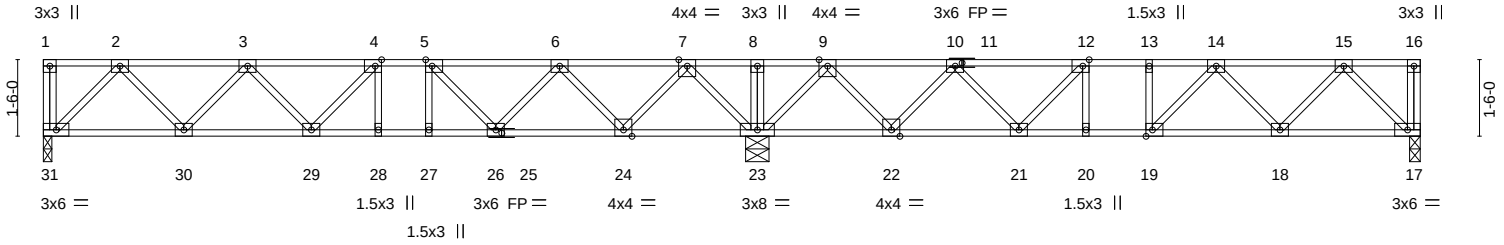

13-11-14 26-11-12
13-11-14 12-11-14

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.07	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.10	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 17=0-2-8, 23=0-5-8
Max Grav 31=777(LC 3), 17=705(LC 4), 23=2107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1134/0, 3-4=-1621/0, 4-5=-1659/0, 5-6=-1298/0, 6-7=-354/460, 7-8=0/1769, 8-9=0/1769, 9-10=-274/514, 10-12=-1112/37, 12-13=-1381/0, 13-14=-1381/0, 14-15=-994/0
BOT CHORD 30-31=0/713, 29-30=0/1533, 28-29=0/1659, 27-28=0/1659, 26-27=0/1659, 24-26=-168/968, 23-24=-784/0, 22-23=-863/0, 21-22=-234/839, 20-21=0/1381, 19-20=0/1381, 18-19=0/1311, 17-18=0/649
WEBS 2-31=-1008/0, 2-30=0/626, 3-30=-593/0, 4-28=-250/0, 7-23=-1417/0, 7-24=0/1020, 6-24=-981/0, 6-26=0/568, 5-26=-663/0, 5-27=0/267, 9-23=-1344/0, 9-22=0/952, 10-22=-917/0, 10-21=0/497, 12-21=-566/0, 15-17=-918/0, 15-18=0/513, 14-18=-471/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F36	Floor	5	1	I49485262
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:11 2021 Page 1
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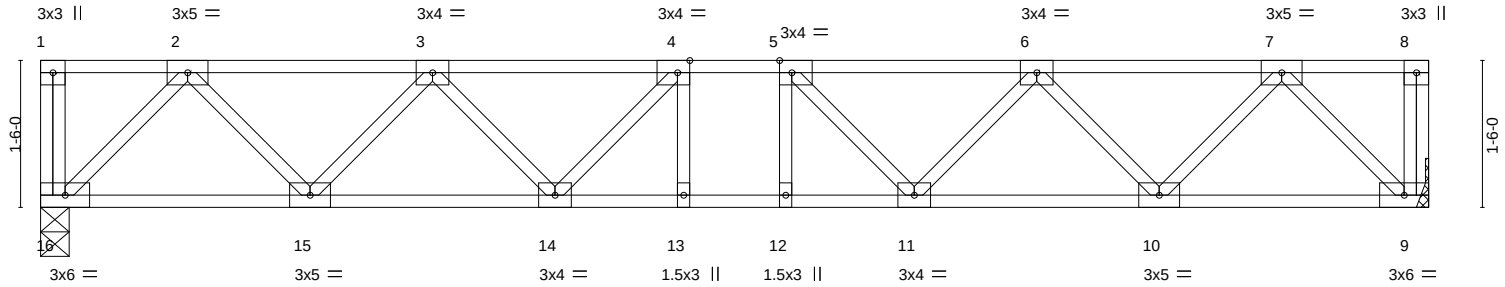

14-2-0
14-2-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.08	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.13	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 9=Mechanical
Max Grav 16=905(LC 1), 9=905(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1377/0, 3-4=-2097/0, 4-5=-2300/0, 5-6=-2097/0, 6-7=-1377/0
BOT CHORD 15-16=0/843, 14-15=0/1886, 13-14=0/2300, 12-13=0/2300, 11-12=0/2300, 10-11=0/1886, 9-10=0/843
WEBS 2-16=-1192/0, 2-15=0/795, 3-15=-756/0, 3-14=0/361, 4-14=-408/0, 7-9=-1192/0, 7-10=0/795, 6-10=-756/0, 6-11=0/361, 5-11=-408/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F37	Floor	2	1	I49485263
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:12 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-QFdJwtPsKPSLRMhwKvrWcYdqbdZBF5Ks8hvLGoy3pc9

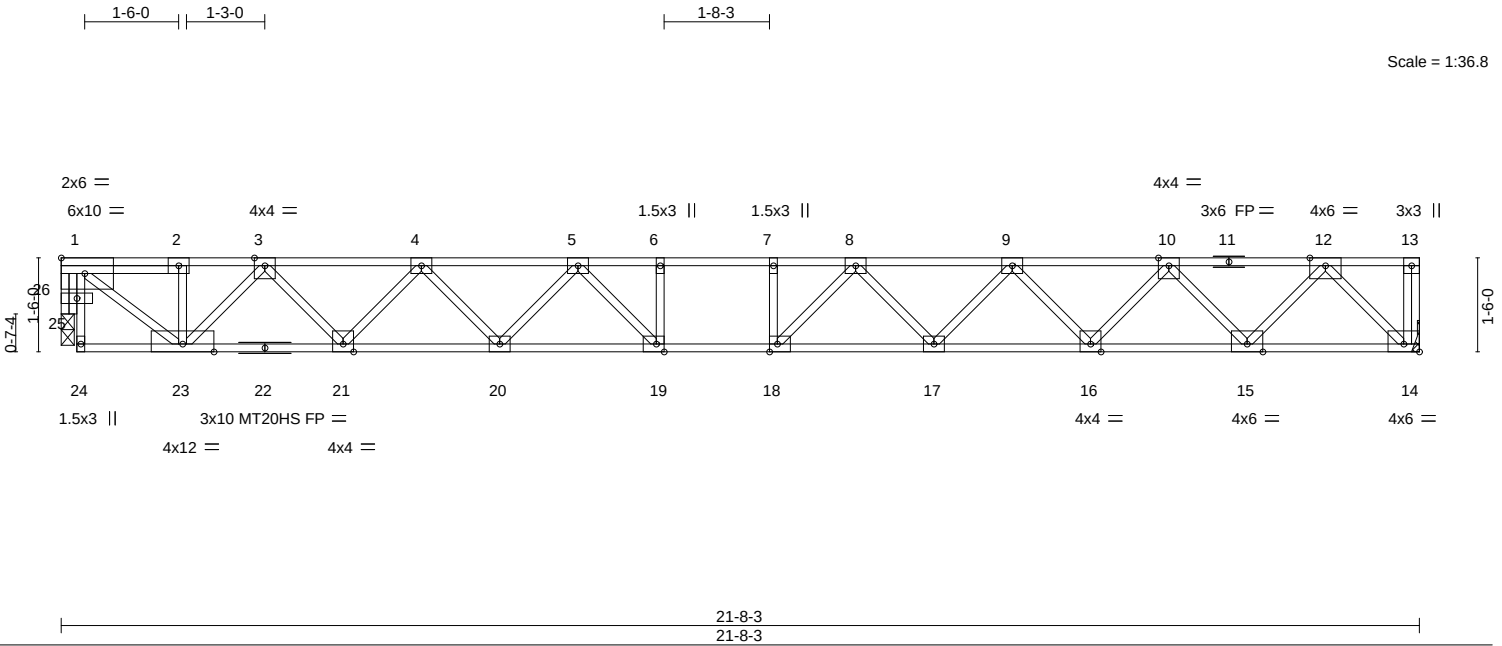

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.33	18	>773	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.54	18	>475	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 26=0-2-8
Max Grav 14=1392(LC 1), 26=1370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1671/0, 2-3=-1668/0, 3-4=-3478/0, 4-5=-4675/0, 5-6=-5375/0, 6-7=-5375/0, 7-8=-5375/0, 8-9=-4936/0, 9-10=-3915/0, 10-12=-2302/0
BOT CHORD	21-23=0/2707, 20-21=0/4224, 19-20=0/5114, 18-19=0/5375, 17-18=0/5272, 16-17=0/4564, 15-16=0/3248, 14-15=0/1330
WEBS	1-23=0/1958, 3-23=-1505/0, 3-21=0/1146, 4-21=-1109/0, 4-20=0/670, 5-20=-653/0, 5-19=-61/714, 6-19=-352/0, 12-14=-1881/0, 12-15=0/1445, 10-15=-1407/0, 10-16=0/991, 9-16=-965/0, 9-17=0/553, 8-17=-532/0, 8-18=-227/550, 7-18=-281/41, 1-26=-1402/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

December 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F38	Floor	5	1	I49485264 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:12 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-QFdJwtPsKPSLRMhwKvrWcYdp2dVVF97s8hvLGoy3pc9

1-3-0 0-11-3

Scale = 1:36.2

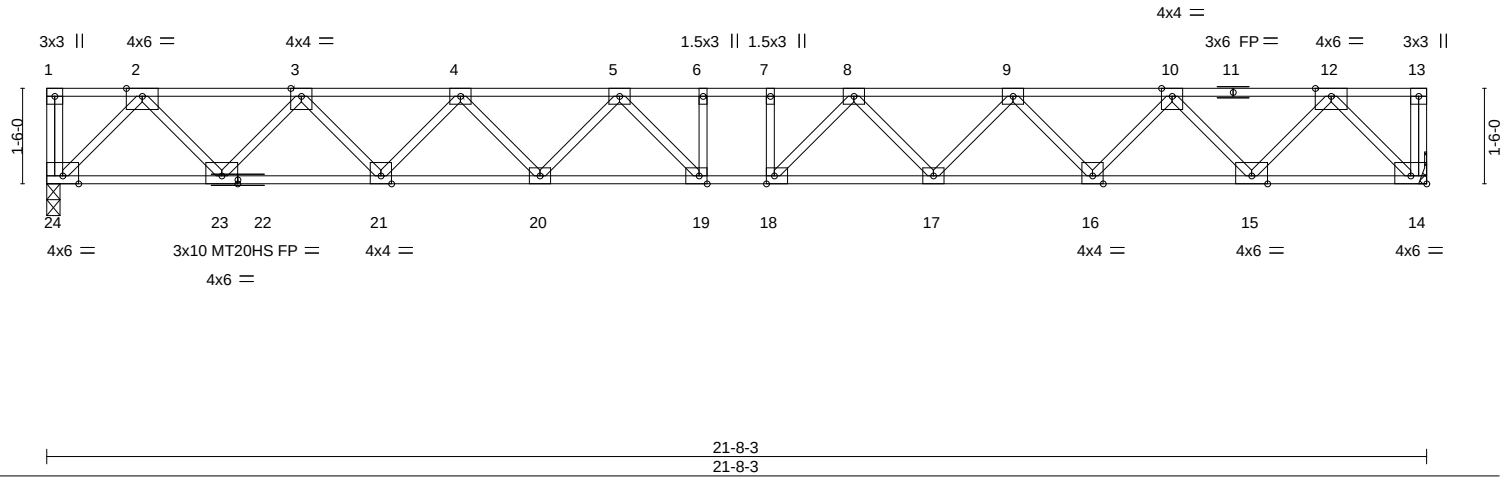

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.38	18-19	>678	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.62	18-19	>417	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 118 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 24=0-2-8, 14=Mechanical
Max Grav 24=1393(LC 1), 14=1393(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2305/0, 3-4=-3922/0, 4-5=-4940/0, 5-6=-5407/0, 6-7=-5407/0, 7-8=-5407/0, 8-9=-4940/0, 9-10=-3922/0, 10-12=-2305/0
BOT CHORD 23-24=0/1332, 21-23=0/3252, 20-21=0/4570, 19-20=0/5286, 18-19=0/5407, 17-18=0/5286, 16-17=0/4570, 15-16=0/3252, 14-15=0/1332
WEBS 2-24=-1883/0, 2-23=0/1447, 3-23=-1408/0, 3-21=0/995, 4-21=-964/0, 4-20=0/550, 5-20=-526/0, 5-19=-194/507, 12-14=-1883/0, 12-15=0/1447, 10-15=-1408/0, 10-16=0/995, 9-16=-964/0, 9-17=0/550, 8-17=-526/0, 8-18=-194/507

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F39	Floor	3	1	I49485265
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:14 2021 Page 1
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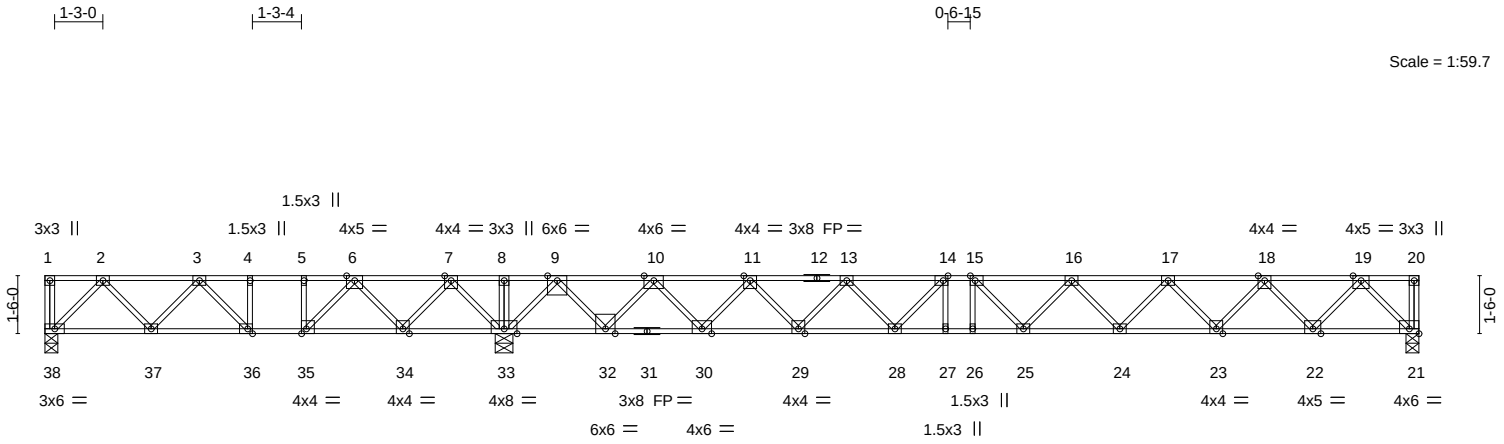

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

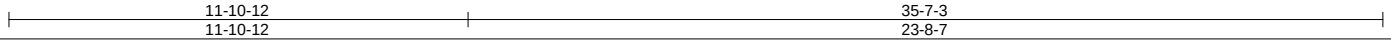

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.35	25-26	>811	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.56	25-26	>509	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-4-0, 33=0-5-8
Max Uplift 38=-142(LC 4)
Max Grav 38=550(LC 3), 21=1315(LC 4), 33=3002(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-710/374, 3-4=-704/1237, 4-5=-704/1237, 5-6=-704/1237, 6-7=0/2492, 7-8=0/3992, 8-9=0/3992, 9-10=0/1032, 10-11=-1526/0, 11-13=-3197/0, 13-14=-4268/0, 14-15=-4719/0, 15-16=-4795/0, 16-17=-4512/0, 17-18=-3629/0, 18-19=-2156/0

BOT CHORD 37-38=-166/495, 36-37=-659/874, 35-36=-1237/704, 34-35=-1935/245, 33-34=-3016/0, 32-33=-2311/0, 30-32=-249/532, 29-30=0/2496, 28-29=0/3868, 27-28=0/4719, 26-27=0/4719, 25-26=0/4719, 24-25=0/4804, 23-24=0/4202, 22-23=0/3034, 21-22=0/1253

WEBS 2-38=-700/235, 2-37=-308/320, 3-37=-243/424, 3-36=-920/0, 7-33=-1631/0, 7-34=0/1171, 6-34=-1228/0, 6-35=0/1303, 5-35=-696/0, 4-36=0/458, 9-33=-2377/0, 9-32=0/1942, 10-32=-1918/0, 10-30=0/1500, 11-30=-1466/0, 11-29=0/1064, 13-29=-1021/0, 13-28=0/698, 14-28=-832/0, 19-21=-1772/0, 19-22=0/1342, 18-22=-1305/0, 18-23=0/885, 17-23=-852/0, 17-24=0/461, 16-24=-434/0, 15-25=-222/424, 15-26=-388/93, 14-27=-77/405

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=142.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F39A	Floor	2	1	I49485266
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:15 2021 Page 1
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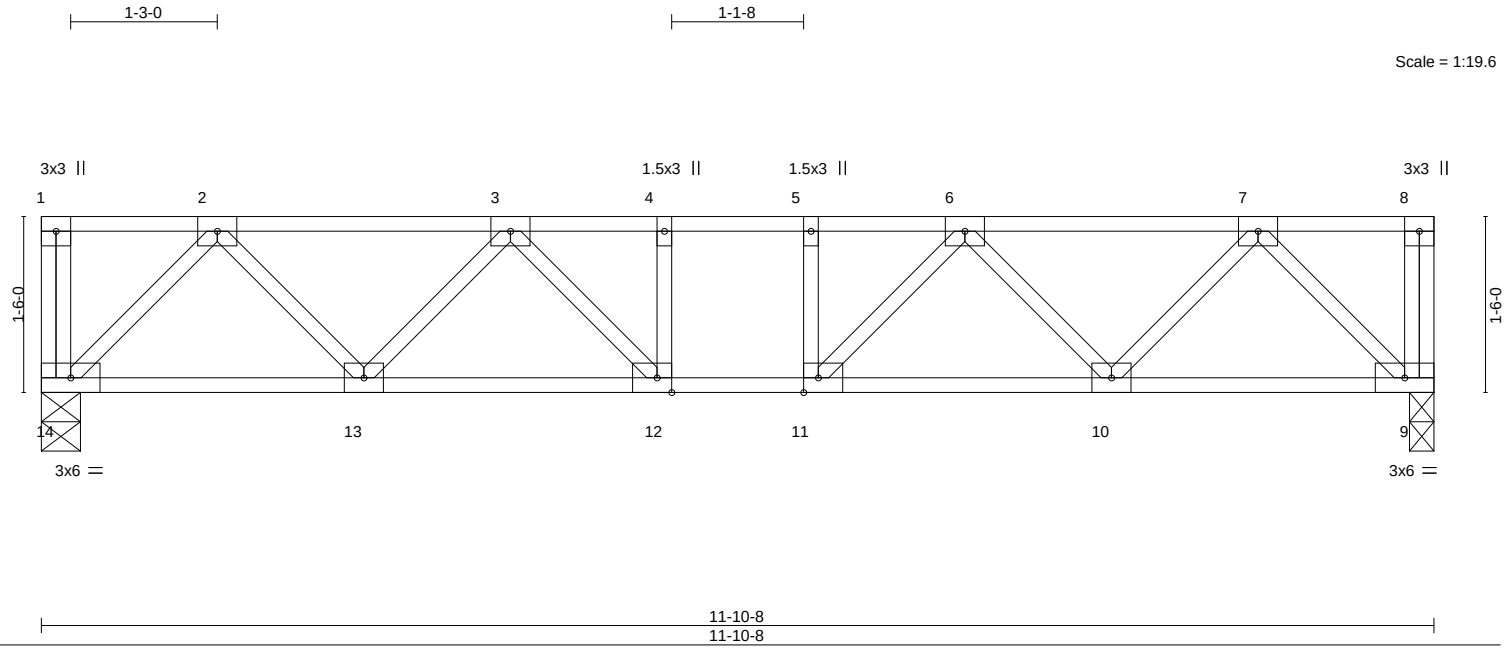

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=756(LC 1), 9=756(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1088/0, 3-4=-1582/0, 4-5=-1582/0, 5-6=-1582/0, 6-7=-1088/0
BOT CHORD 13-14=0/700, 12-13=0/1450, 11-12=0/1582, 10-11=0/1450, 9-10=0/700
WEBS 2-14=-989/0, 2-13=0/578, 3-13=-538/0, 3-12=0/342, 7-9=-989/0, 7-10=0/578, 6-10=-538/0, 6-11=0/342

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F39G	FLOOR GIRDER	1	1	I49485267
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:16 2021 Page 1
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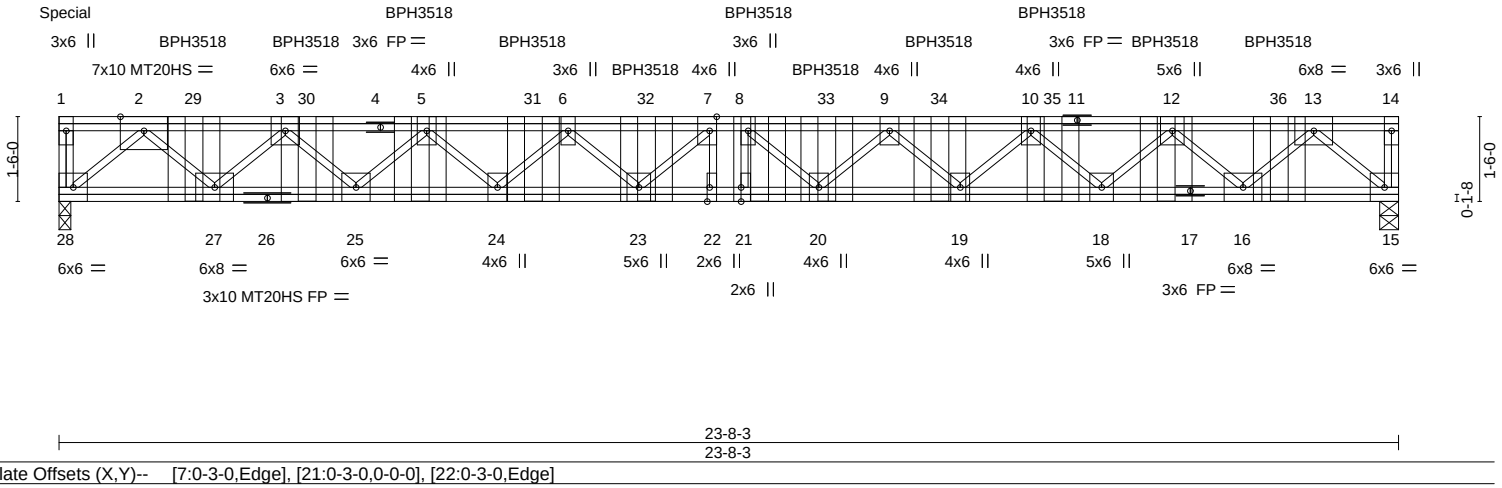

23-8-3
23-8-3

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [21:0-3-0,0-0-0], [22:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.48	22	>580	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.65	22	>436	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.10	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 193 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-28,15-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat) *Except*
7-22,8-21: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 28=0-2-8, 15=0-4-0
Max Uplift 15=-148(LC 9)
Max Grav 28=2116(LC 1), 15=1730(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3617/0, 3-5=-6176/0, 5-6=-7782/0, 6-7=-8413/36, 7-8=-8421/584, 8-9=-8007/884, 9-10=-6987/1029, 10-12=-5375/915, 12-13=-3142/485
BOT CHORD 27-28=0/2079, 25-27=0/5131, 24-25=0/7198, 23-24=0/8346, 22-23=-584/8421, 21-22=-584/8421, 20-21=-584/8421, 19-20=-1090/7633, 18-19=-1030/6313, 16-18=-821/4416, 15-16=-178/1842
WEBS 2-28=-2809/0, 2-27=0/2176, 3-27=-2141/0, 3-25=0/1477, 5-25=-1445/30, 5-24=-272/826, 6-24=-798/283, 6-23=-926/190, 7-23=-141/1211, 7-22=-773/0, 13-15=-2489/241, 13-16=-434/1838, 12-16=-1802/475, 12-18=-281/1357, 10-18=-1326/314, 10-19=-33/953, 9-19=-913/85, 9-20=0/744, 8-20=-973/0, 8-21=0/792

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=148.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-10 from the left end to 21-6-14 to connect truss(es) to back face of top chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 218 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

December 31,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F39G	FLOOR GIRDER	1	1	I49485267
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-28=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 5=-123(B) 12=21(B) 8=21(B) 1=-167(B) 29=-123(B) 30=-123(B) 31=-123(B) 32=-123(B) 33=21(B) 34=21(B) 35=21(B) 36=-123(B)

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Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F40	Floor	1	1	I49485268
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:19 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-jcYyOGUFgZLLnRkGEtT9O0P0vRw7OFHuIH6D?uy3pc2

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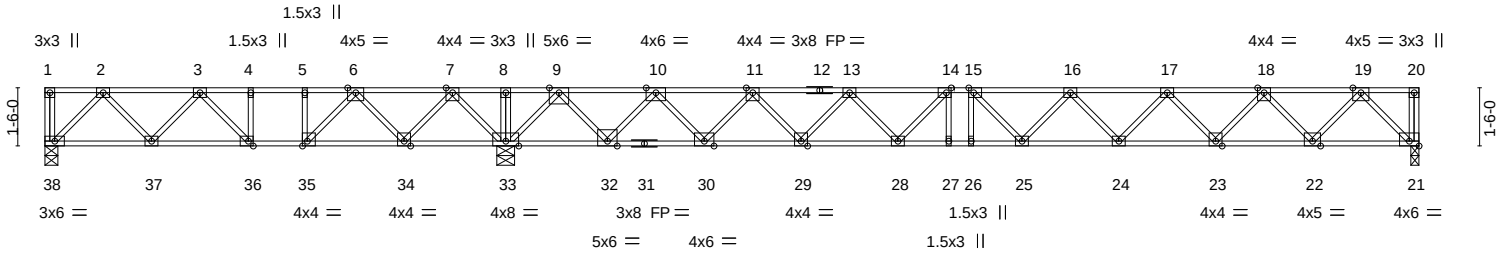

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-10-12 35-5-11
11-10-12 23-6-15

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [21:Edge,0-1-8], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.34	25-26	>829	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.54	25-26	>521	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 21-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-12 oc bracing.

REACTIONS. (size) 38=0-4-0, 21=0-2-8, 33=0-5-8
Max Uplift 38=-137(LC 4)
Max Grav 38=552(LC 3), 21=1308(LC 4), 33=2989(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-713/365, 3-4=-710/1218, 4-5=-710/1218, 5-6=-710/1218, 6-7=0/2462, 7-8=0/3956, 8-9=0/3956, 9-10=0/1025, 10-11=-1530/0, 11-13=-3184/0, 13-14=-4239/0, 14-15=-4672/0, 15-16=-4744/0, 16-17=-4473/0, 17-18=-3603/0, 18-19=-2143/0
BOT CHORD 37-38=-162/496, 36-37=-646/878, 35-36=-1218/710, 34-35=-1910/253, 33-34=-2983/0, 32-33=-2284/0, 30-32=-248/545, 29-30=0/2492, 28-29=0/3848, 27-28=0/4672, 26-27=0/4672, 25-26=0/4672, 24-25=0/4757, 23-24=0/4170, 22-23=0/3014, 21-22=0/1246
WEBS 2-38=-702/229, 2-37=-302/322, 3-37=-245/417, 3-36=-911/0, 7-33=-1625/0, 7-34=0/1166, 6-34=-1222/0, 6-35=0/1293, 5-35=-691/0, 4-36=0/453, 9-33=-2365/0, 9-32=0/1930, 10-32=-1906/0, 10-30=0/1488, 11-30=-1454/0, 11-29=0/1052, 13-29=-1010/0, 13-28=0/686, 14-28=-797/0, 19-21=-1762/0, 19-22=0/1333, 18-22=-1295/0, 18-23=0/876, 17-23=-843/0, 17-24=0/451, 16-24=-422/0, 16-25=-256/207, 15-25=-214/410, 15-26=-383/103, 14-27=-88/398

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 38=137.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
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Chesterfield, MO 63017

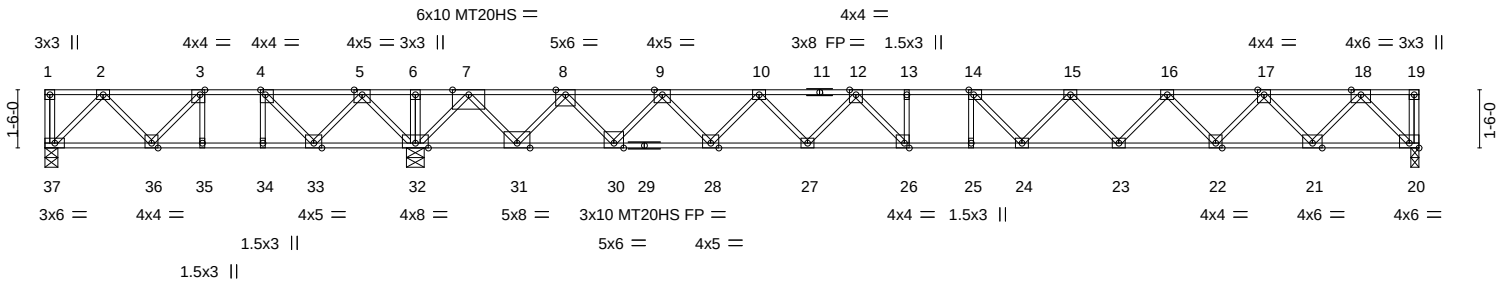
Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F41	Floor	5	1	I49485269
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:21 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-f_fjpyWWCAb30ktfMIWdURVL2FbqsEmBDbbK4ny3pc0

1-3-0 1-5-4 1-6-7

Scale = 1:59.5



9-6-12 35-5-11
9-6-12 25-10-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge], [20:Edge,0-1-8], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.44	25	>697	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.71	24-25	>434	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	20	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 190 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except*
1-37,19-20,6-32,4-34,3-35,13-26,14-25: 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 37=0-4-0, 20=0-2-8, 32=0-5-8
Max Uplift 37=-359(LC 4)
Max Grav 37=360(LC 3), 20=1462(LC 7), 32=3127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-325/829, 3-4=-188/1632, 4-5=0/2620, 5-6=0/4253, 6-7=0/4253, 7-8=0/1026, 8-9=-1769/0, 9-10=-3696/0, 10-12=-5008/0, 12-13=-5907/0, 13-14=-5907/0, 14-15=-5875/0, 15-16=-5329/0, 16-17=-4177/0, 17-18=-2437/0
BOT CHORD 36-37=-322/333, 35-36=-1632/188, 34-35=-1632/188, 33-34=-1632/188, 32-33=-3329/0, 31-32=-2456/0, 30-31=0/649, 28-30=0/2865, 27-28=0/4497, 26-27=0/5529, 25-26=0/5907, 24-25=0/5907, 23-24=0/5760, 22-23=0/4882, 21-22=0/3449, 20-21=0/1400
WEBS 2-37=-471/456, 2-36=-753/0, 3-36=0/1162, 5-32=-1501/0, 5-33=0/1300, 4-33=-1693/0, 4-34=0/687, 3-35=-659/0, 7-32=-2542/0, 7-31=0/2126, 8-31=-2110/0, 8-30=0/1686, 9-30=-1651/0, 9-28=0/1258, 10-28=-1212/0, 10-27=0/780, 12-27=-799/0, 18-20=-1980/0, 18-21=0/1542, 17-21=-1504/0, 17-22=0/1083, 16-22=-1048/0, 16-23=0/664, 15-23=-641/0, 15-24=-103/401, 14-24=-440/349, 12-26=0/902, 13-26=-401/0, 14-25=-299/95

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 37=359.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F42	FLOOR	2	1	I49485270
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:22 2021 Page 1
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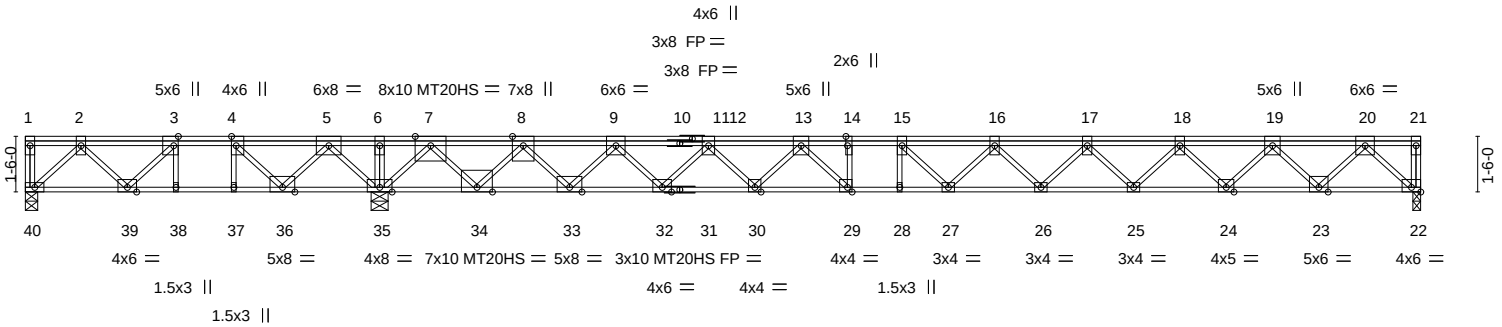
1-3-0 1-5-4 1-2-11

Scale = 1:62.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-6-12 37-7-15
9-6-12 28-1-3

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge], [14:0-3-0,Edge], [22:Edge,0-1-8], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.51	27-28	>652	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.83	27-28	>405	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 11-21,10-21: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 22-31: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.2(flat) *Except* 1-40,21-22,6-35,3-38,4-37,14-29,15-28: 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.

REACTIONS. (size) 40=0-4-0, 35=0-5-8, 22=0-2-8
Max Uplift 40=-608(LC 4)
Max Grav 40=260(LC 3), 35=3589(LC 1), 22=1534(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-95/1463, 3-4=0/2590, 4-5=0/3909, 5-6=0/6110, 6-7=0/6110, 7-8=0/2381, 8-9=-852/14, 9-12=-3231/0, 12-13=-5000/0, 13-14=-6473/0, 14-15=-6473/0, 15-16=-6754/0, 16-17=-6705/0, 17-18=-5971/0, 18-19=-4640/0, 19-20=-2685/0

BOT CHORD 39-40=-528/268, 38-39=-2590/0, 37-38=-2590/0, 36-37=-2590/0, 35-36=-5058/0, 34-35=-4071/0, 33-34=-950/0, 32-33=0/2154, 30-32=0/4275, 29-30=0/5734, 28-29=0/6473, 27-28=0/6473, 26-27=0/6930, 25-26=0/6465, 24-25=0/5451, 23-24=0/3808, 22-23=0/1535

WEBS 6-35=-402/0, 2-40=-370/731, 2-39=-1355/0, 3-39=0/1593, 3-38=-297/0, 5-35=-1727/0, 5-36=0/1927, 4-36=-2138/0, 4-37=0/325, 7-35=-2819/0, 7-34=0/2450, 8-34=-2428/0, 8-33=0/1992, 9-33=-1957/0, 9-32=0/1572, 12-32=-1526/0, 12-30=0/1063, 13-30=-1075/0, 13-29=0/1335, 20-22=-2121/0, 20-23=0/1668, 19-23=-1629/0, 19-24=0/1206, 18-24=-1175/0, 18-25=0/754, 17-25=-716/0, 17-26=0/369, 16-26=-336/0, 16-27=-503/185, 14-29=-756/0, 15-27=-149/686

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 40=608.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F43	Floor	6	1	I49485271
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:23 2021 Page 1
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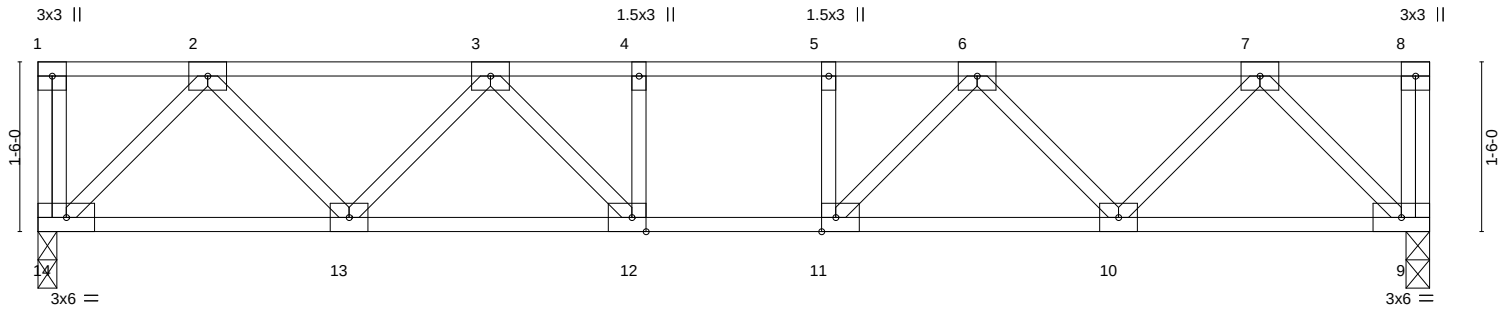

12-3-10
12-3-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=783(LC 1), 9=783(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1141/0, 3-4=-1694/0, 4-5=-1694/0, 5-6=-1694/0, 6-7=-1141/0
BOT CHORD 13-14=0/728, 12-13=0/1527, 11-12=0/1694, 10-11=0/1527, 9-10=0/728
WEBS 2-14=-1029/0, 2-13=0/614, 3-13=-574/0, 3-12=0/405, 7-9=-1029/0, 7-10=0/614, 6-10=-574/0, 6-11=0/405

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F44	Floor	2	1	I49485272
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4ZLrR_YOV5zetCcE1Q3K547_oSiL3hldvZp_g6y3pbz

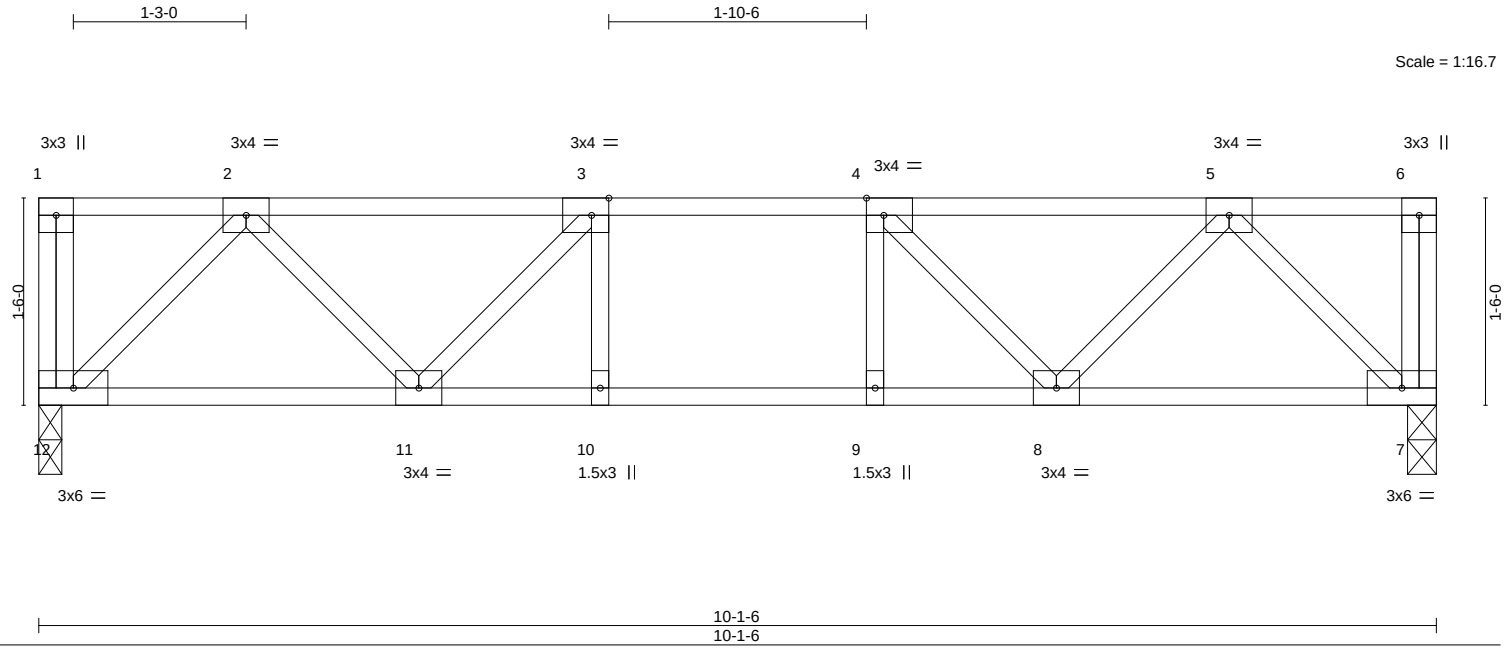

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.05	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.06	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-2-0, 7=0-2-8
Max Grav 12=641(LC 1), 7=641(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-868/0, 3-4=-1140/0, 4-5=-868/0
BOT CHORD 11-12=0/587, 10-11=0/1140, 9-10=0/1140, 8-9=0/1140, 7-8=0/587
WEBS 2-12=-830/0, 2-11=0/418, 3-11=-425/0, 5-7=-830/0, 5-8=0/418, 4-8=-425/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F45	FLOOR	8	1	I49485273
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:24 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-4ZLrR_YOV5zetCcE1Q3K547toSbG3f3dvZp_g6y3pbz

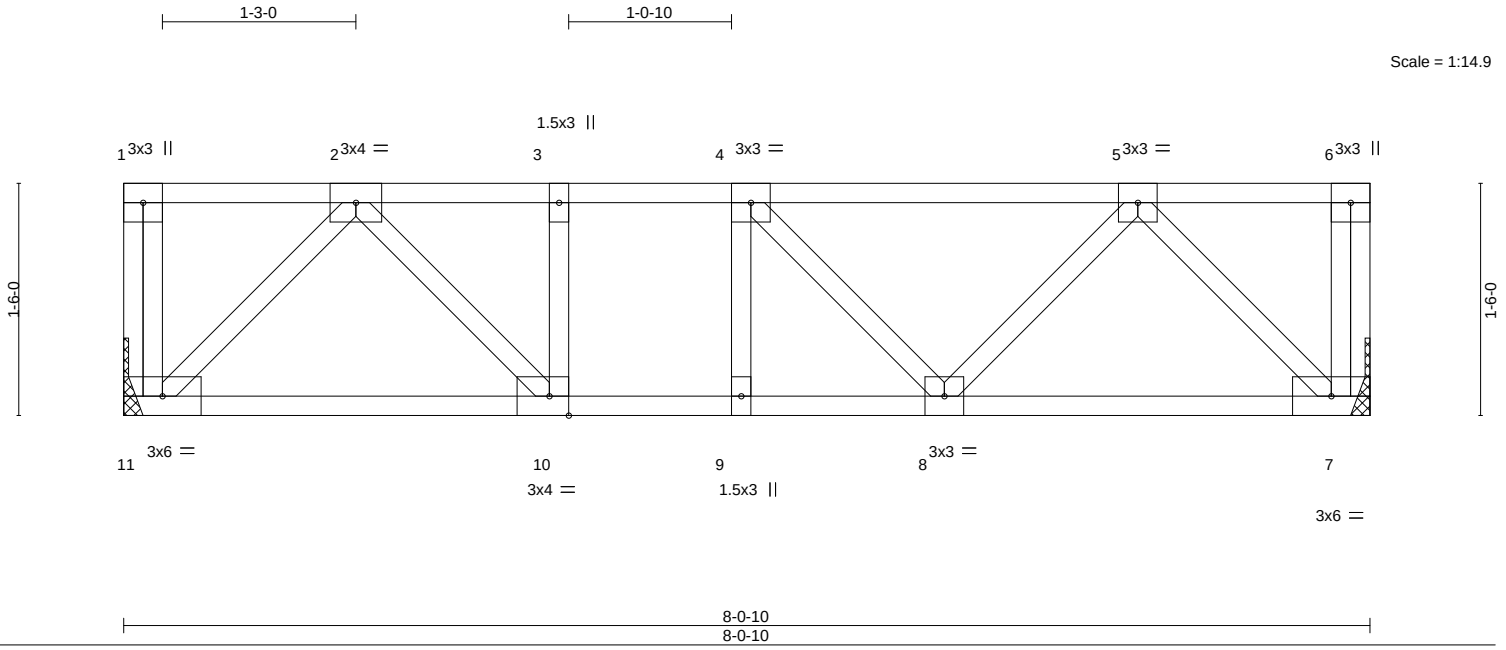

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.08	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.09	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 48 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Grav 11=975(LC 1), 7=975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1353/0, 3-4=-1353/0, 4-5=-1167/0
BOT CHORD 10-11=0/840, 9-10=0/1353, 8-9=0/1353, 7-8=0/897
WEBS 2-11=-1187/0, 2-10=0/781, 3-10=-378/0, 5-7=-1269/0, 5-8=0/401, 4-8=-366/0, 4-9=-264/37

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F46	FLOOR	7	1	I49485274
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:25 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-YlvEfKZ0GP5VVMBQb7aZeHf5ksyJo0In8DZYCYy3pby

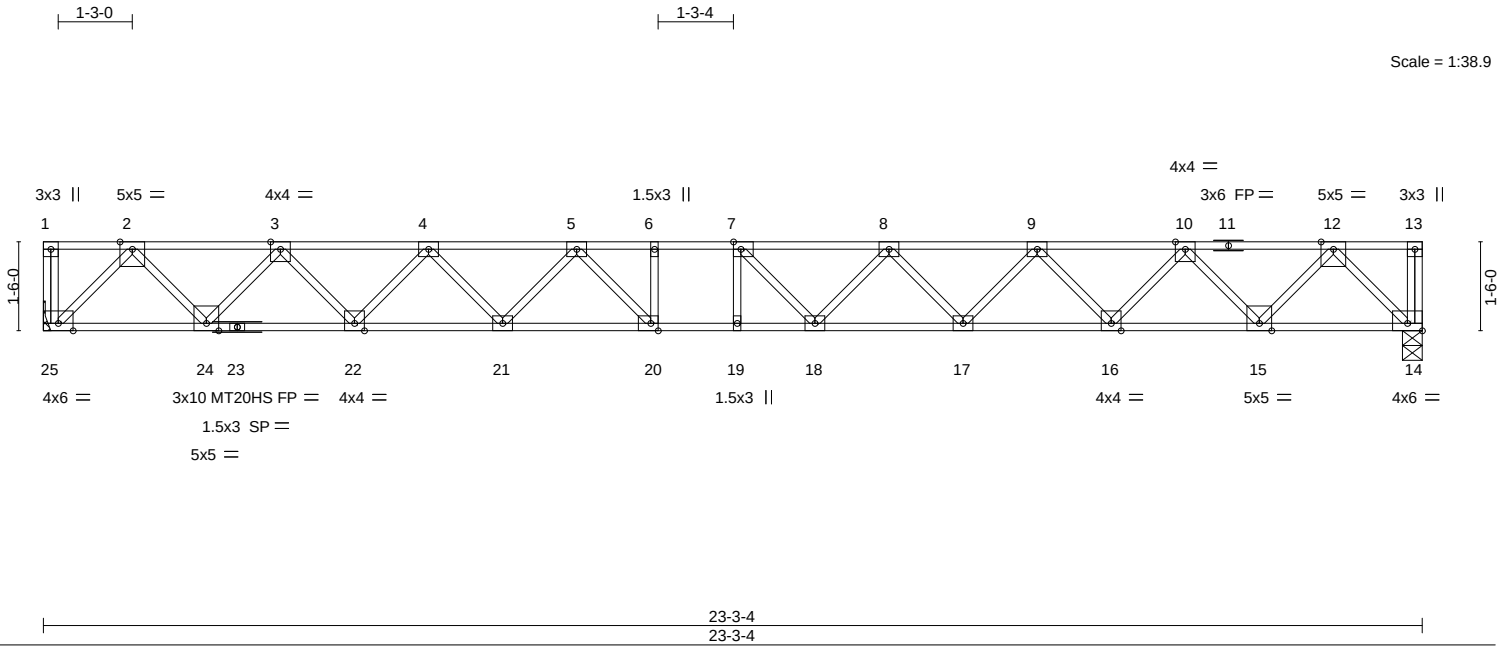

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [14:Edge,0-1-8], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.40	18-19	>698	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.64	18-19	>430	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 125 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 25=Mechanical, 14=0-4-0
Max Grav 25=1496(LC 1), 14=1496(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2501/0, 3-4=-4307/0, 4-5=-5502/0, 5-6=-6224/0, 6-7=-6224/0, 7-8=-6127/0, 8-9=-5516/0, 9-10=-4305/0, 10-12=-2502/0
BOT CHORD 24-25=0/1434, 22-24=0/3543, 21-22=0/5046, 20-21=0/5954, 19-20=0/6224, 18-19=0/6224, 17-18=0/5974, 16-17=0/5040, 15-16=0/3547, 14-15=0/1433
WEBS 2-25=-2028/0, 2-24=0/1586, 3-24=-1549/0, 3-22=0/1137, 4-22=-1099/0, 4-21=0/678, 5-21=-671/0, 5-20=-87/727, 6-20=-313/0, 12-14=-2027/0, 12-15=0/1589, 10-15=-1553/0, 10-16=0/1127, 9-16=-1093/0, 9-17=0/707, 8-17=-681/0, 8-18=-43/444, 7-18=-499/233

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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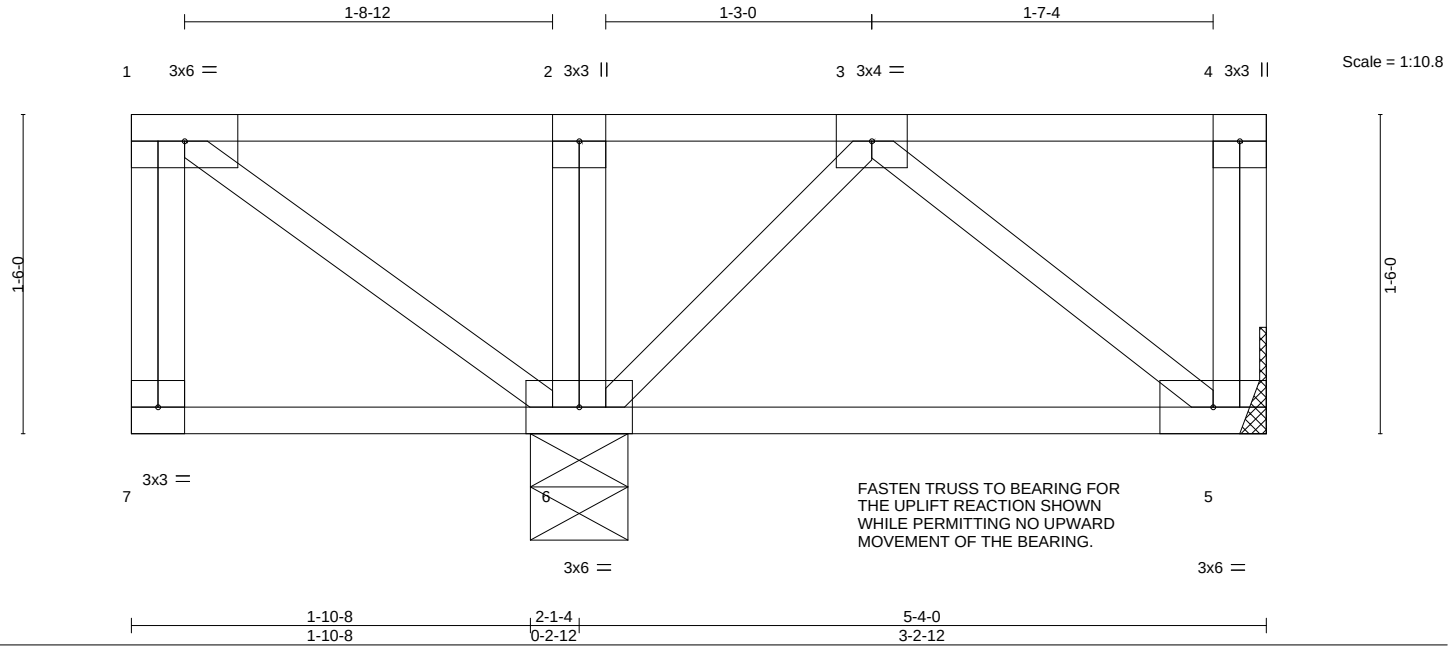
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F47	Floor	10	1	I49485275
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:26 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-0yTcsfZe1iDM6Wmd9r5oBVCGvGVoXbIwMtI5k_y3pbx



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-383(LC 3)
Max Grav 5=25(LC 4), 6=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-536/0
WEBS 1-6=-1220/0, 3-6=-772/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=383.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F49	Floor	5	1	I49485276
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:27 2021 Page 1
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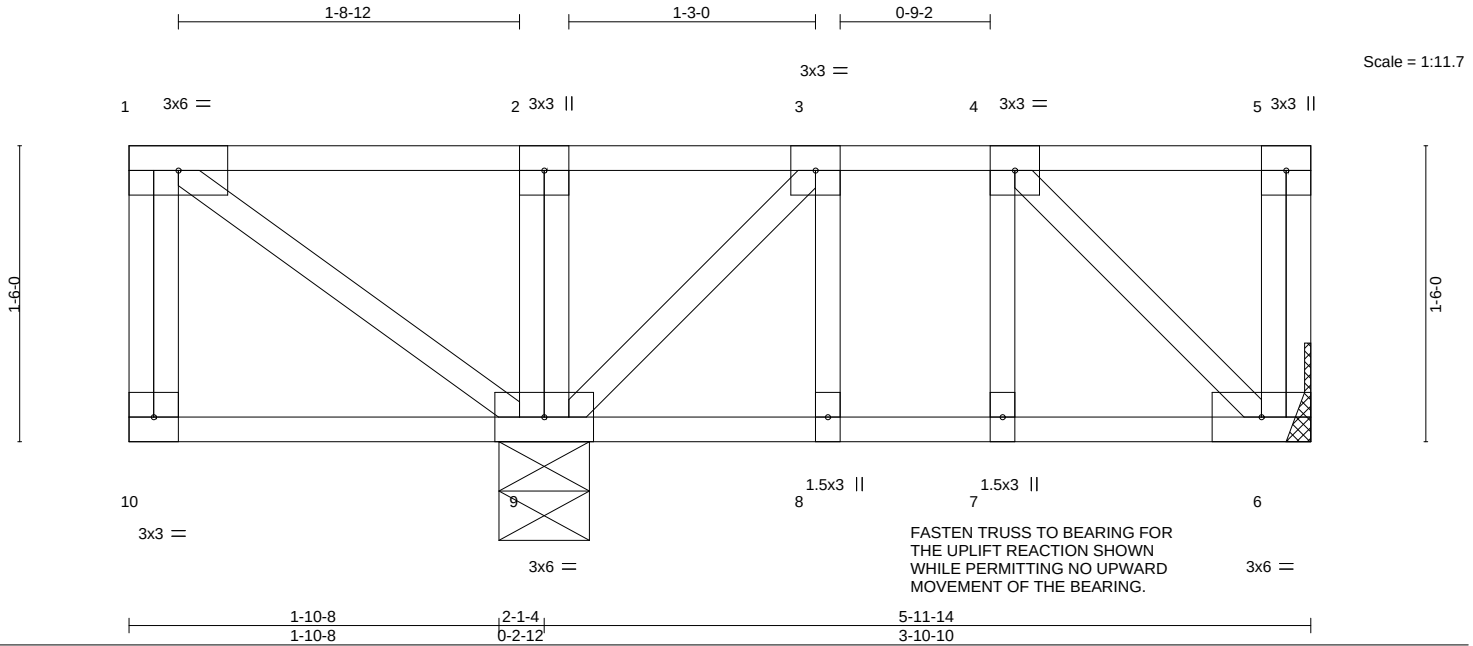

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	0.02	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 9-10.

REACTIONS. (size) 6=Mechanical, 9=0-5-8
Max Uplift 6=-286(LC 3)
Max Grav 6=99(LC 4), 9=1482(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1031, 2-3=0/1030, 3-4=0/454
BOT CHORD 8-9=-454/0, 7-8=-454/0, 6-7=-454/0
WEBS 1-9=-1257/0, 3-9=-930/0, 4-6=0/628, 4-7=-267/0, 3-8=0/299

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=286.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-10, 1-5=-120
Concentrated Loads (lb)
Vert: 1=-600

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	F50	Floor	7	1	I49485277
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:30 2021 Page 1
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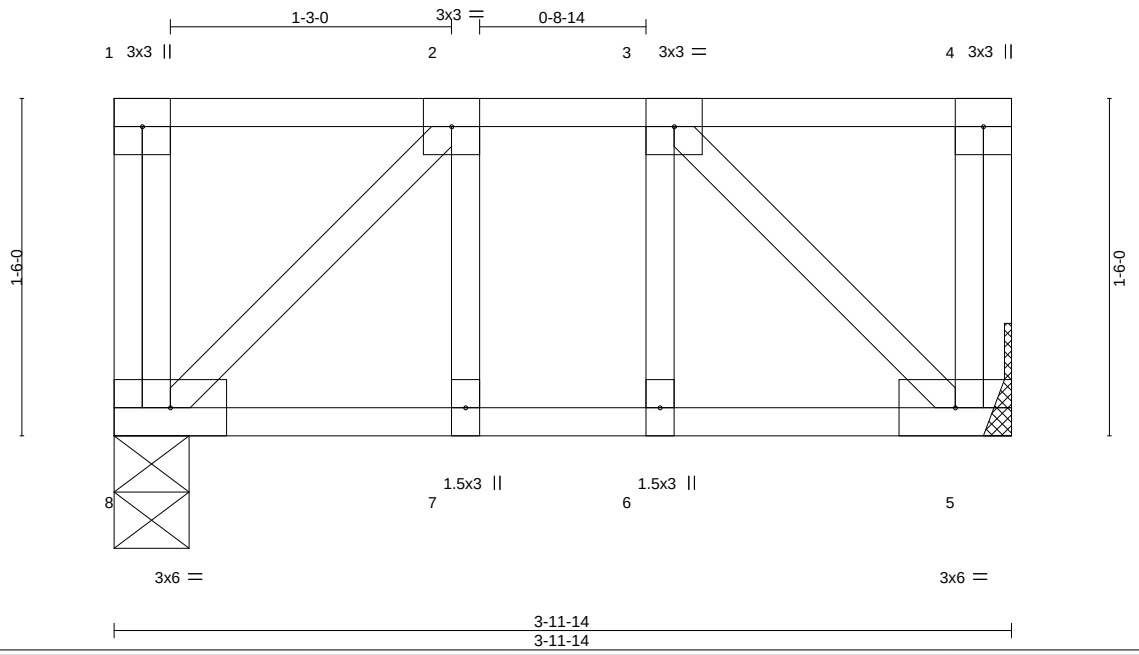

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 28 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-0, 5=Mechanical
Max Grav 8=243(LC 1), 5=243(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	FGR	FLOOR GIRDER	6	1	I49485278
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:36 2021 Page 1
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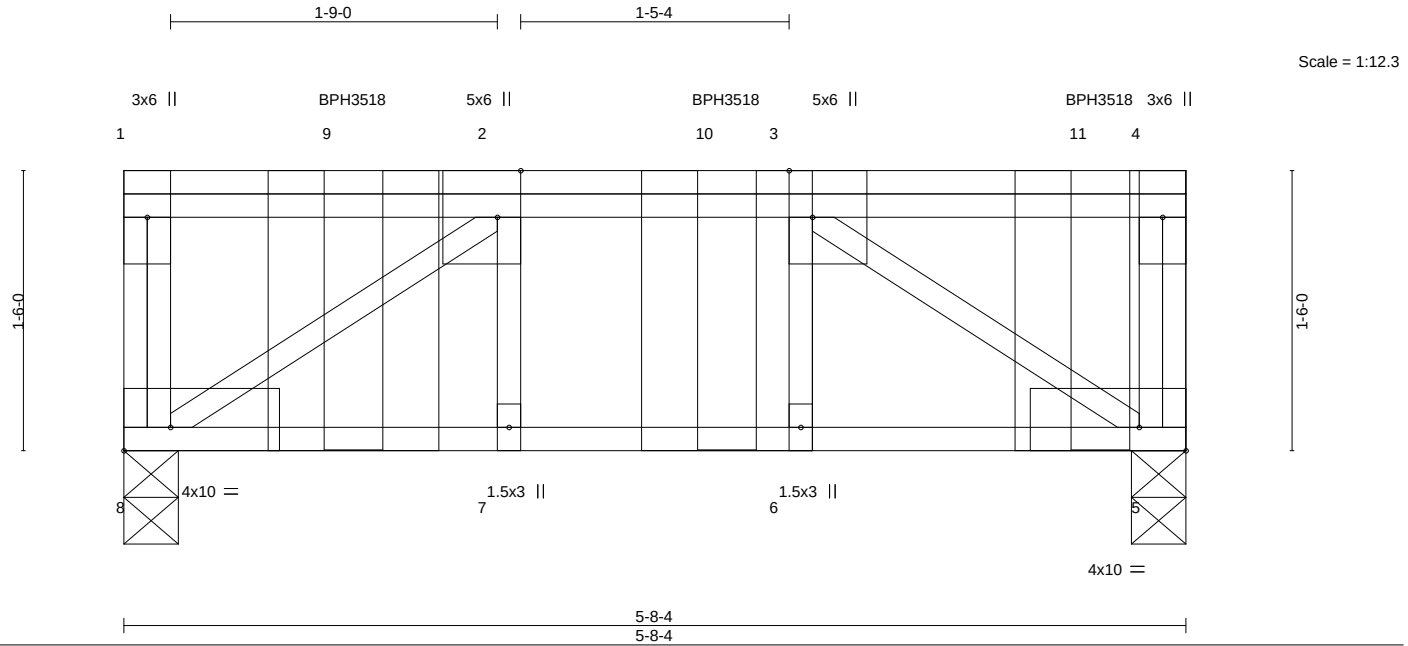

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.04	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-8,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2325(LC 1), 5=2862(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-677/0, 4-5=-1210/0, 2-3=-2469/0
BOT CHORD 7-8=0/2469, 6-7=0/2469, 5-6=0/2469
WEBS 2-8=-2982/0, 3-5=-2982/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 5-2-12 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445
Concentrated Loads (lb)
Vert: 9=-836(B) 10=-836(B) 11=-1041(B)

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW1	Floor Supported Gable	2	1	I49485279
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:36 2021 Page 1
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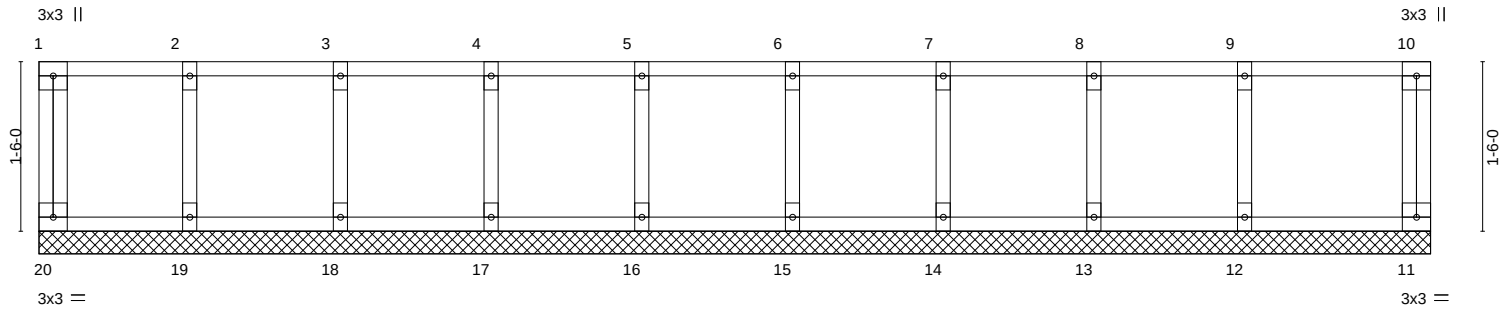

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW2	Floor Supported Gable	1	1	I49485280
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:41 2021 Page 1
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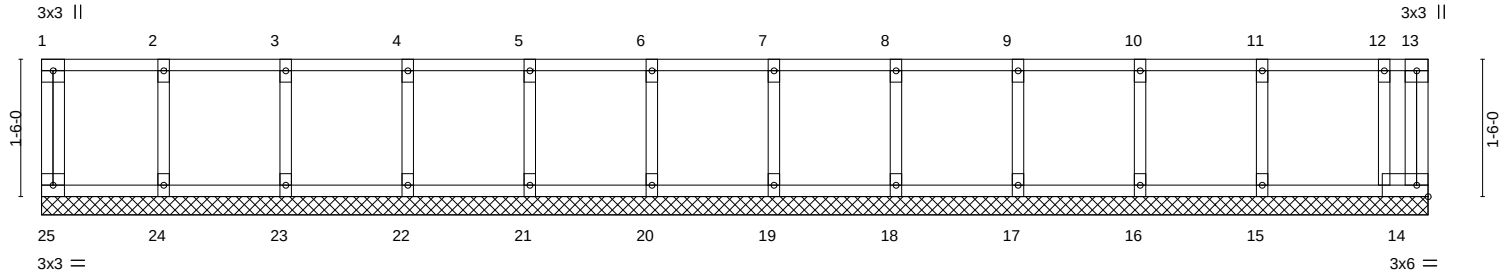

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-1-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-1-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW3	GABLE	2	1	I49485281
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:41 2021 Page 1
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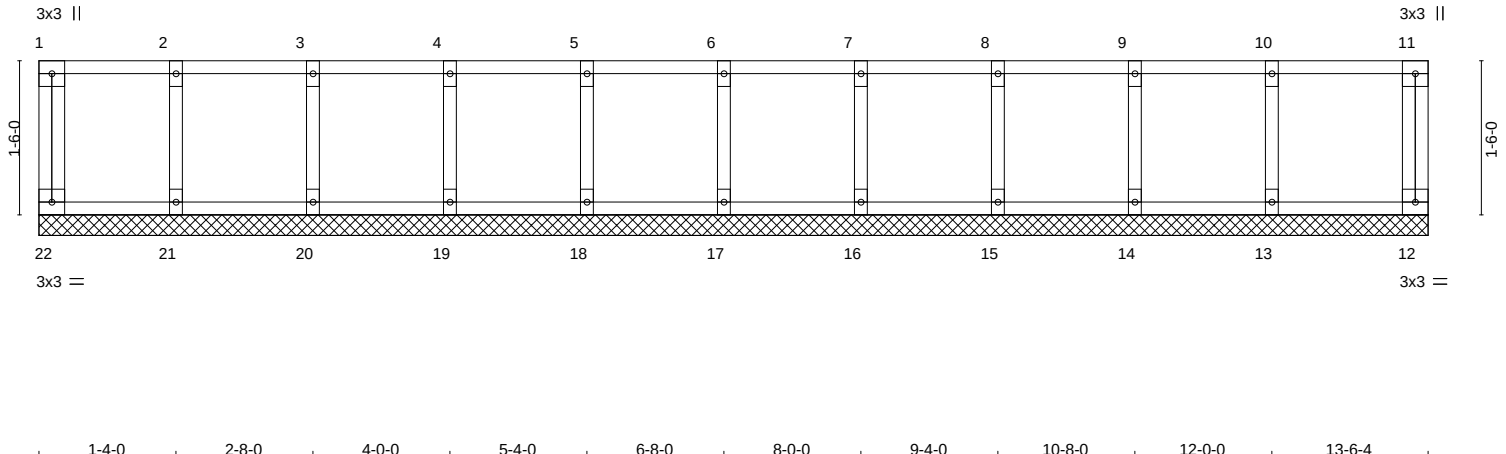

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-6-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW4	Floor Supported Gable	1	1	I49485282
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:42 2021 Page 1
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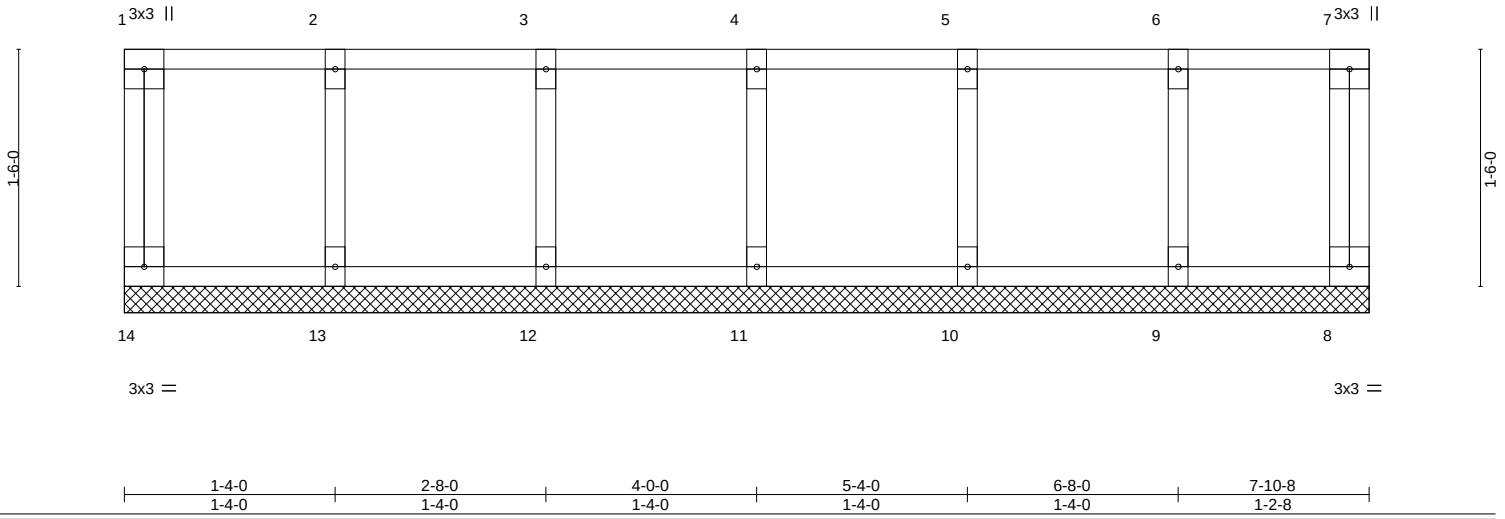

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	7-10-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-10-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW4A	Floor Supported Gable	1	1	I49485283
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:42 2021 Page 1
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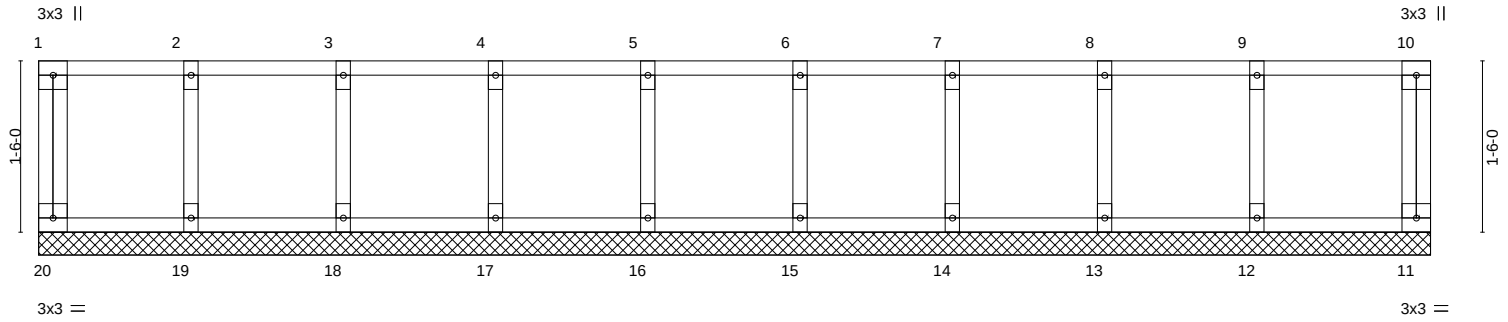

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-2-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW5	GABLE	1	1	I49485284
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:43 2021 Page 1
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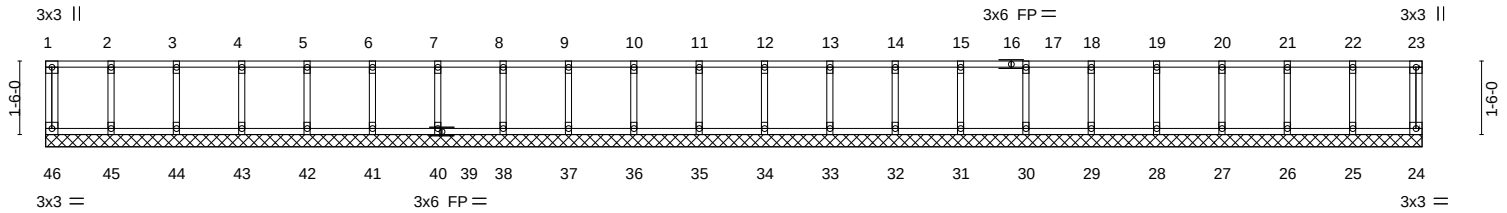

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-1-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW6	Floor Supported Gable	1	1	I49485285
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:44 2021 Page 1
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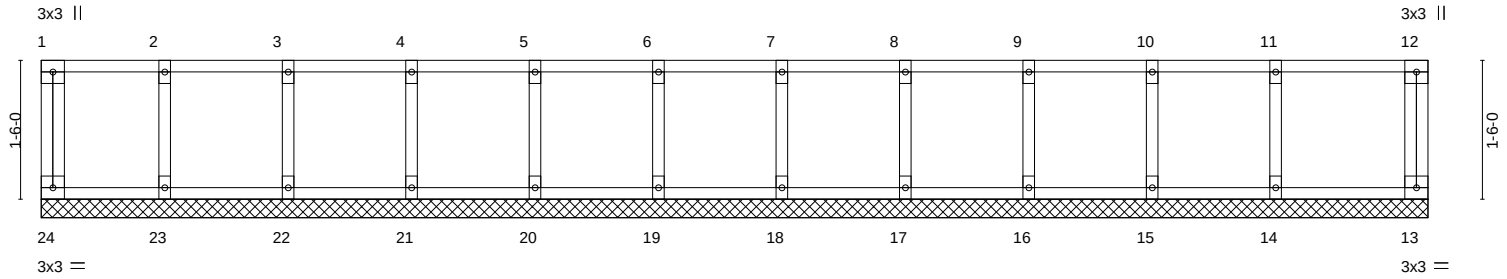

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-11-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW7	Floor Supported Gable	2	1	I49485286
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:45 2021 Page 1
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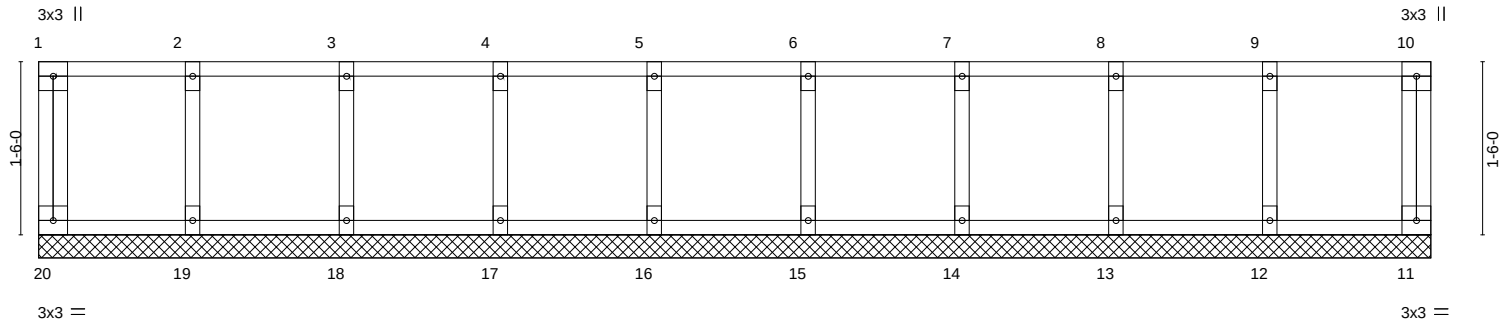

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW8	GABLE	4	1	I49485287
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:45 2021 Page 1
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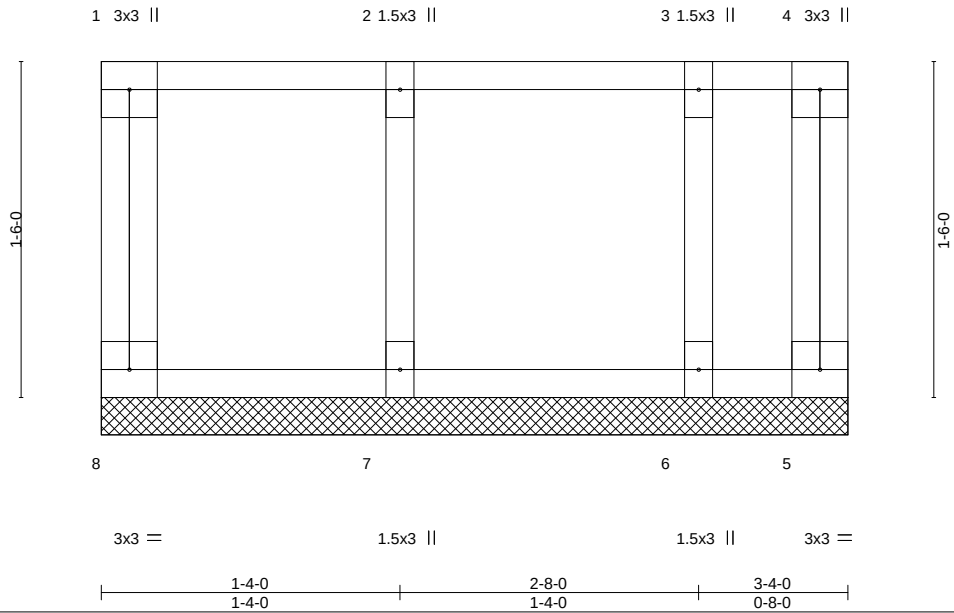

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 21 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW9	Floor Supported Gable	1	1	I49485288
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:46 2021 Page 1
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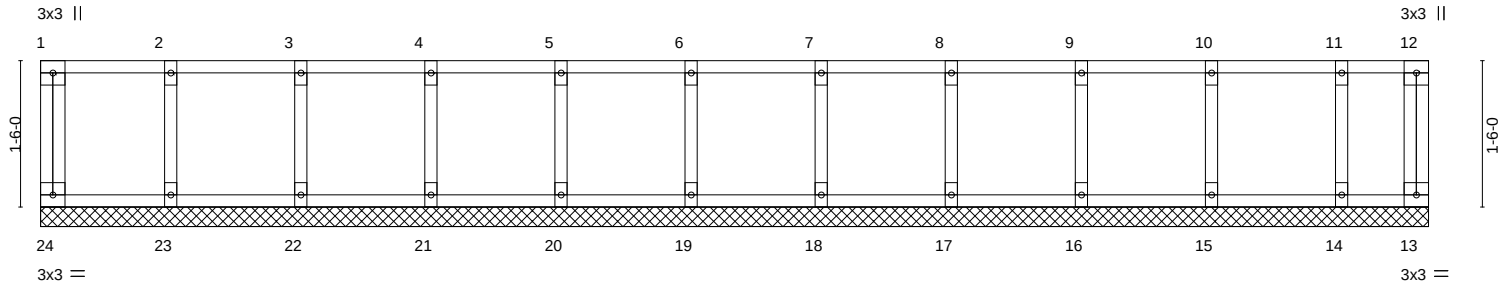

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-2-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-2-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW10	Floor Supported Gable	2	1	I49485289
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:37 2021 Page 1
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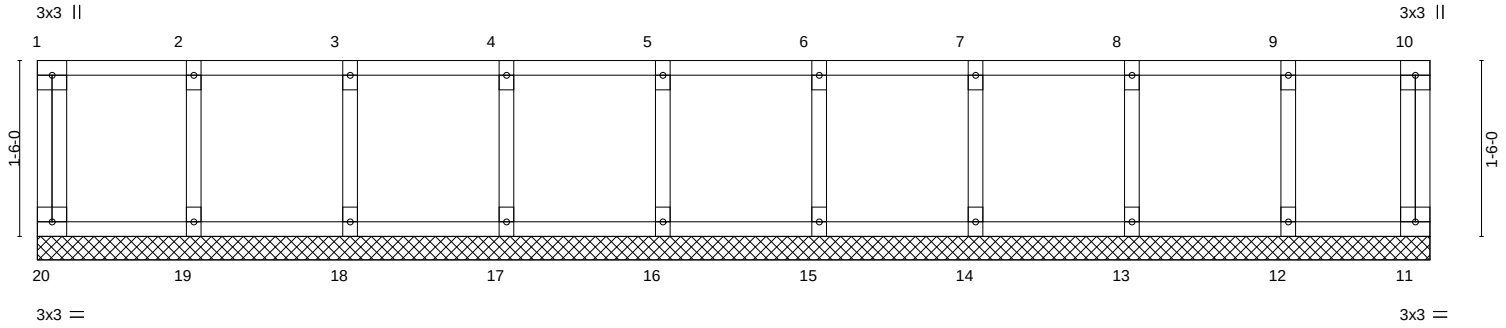

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW11	GABLE	1	1	I49485290
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:37 2021 Page 1
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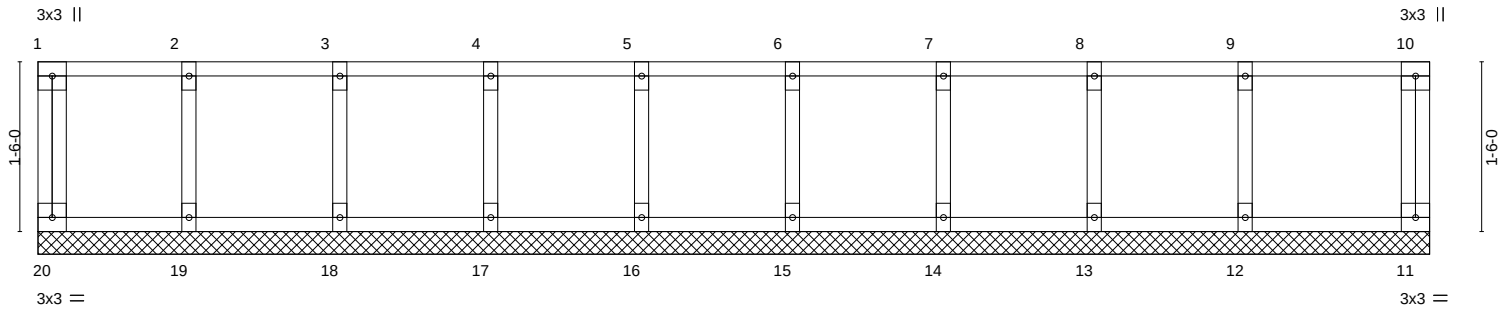

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-9
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-9

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-9.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW12	Floor Supported Gable	1	1	I49485291
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:38 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-fGB8NmjACOkfZMgwsMJcg1iSp5cjL3sh7kCk9Iy3pbl

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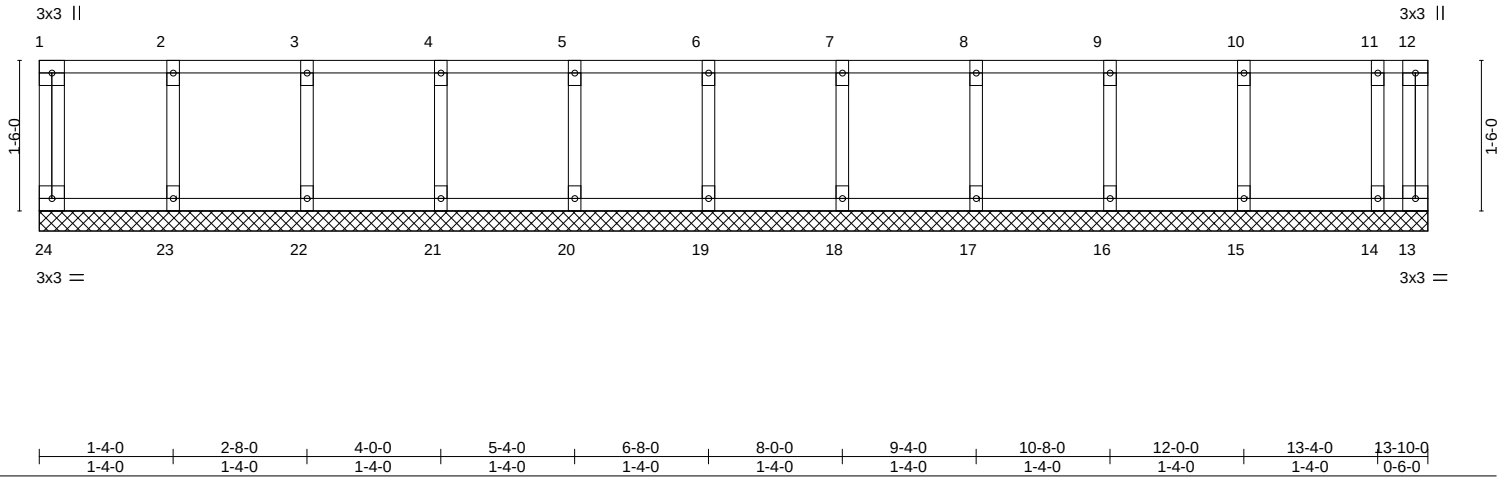

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW13	Floor Supported Gable	1	1	I49485292
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:39 2021 Page 1
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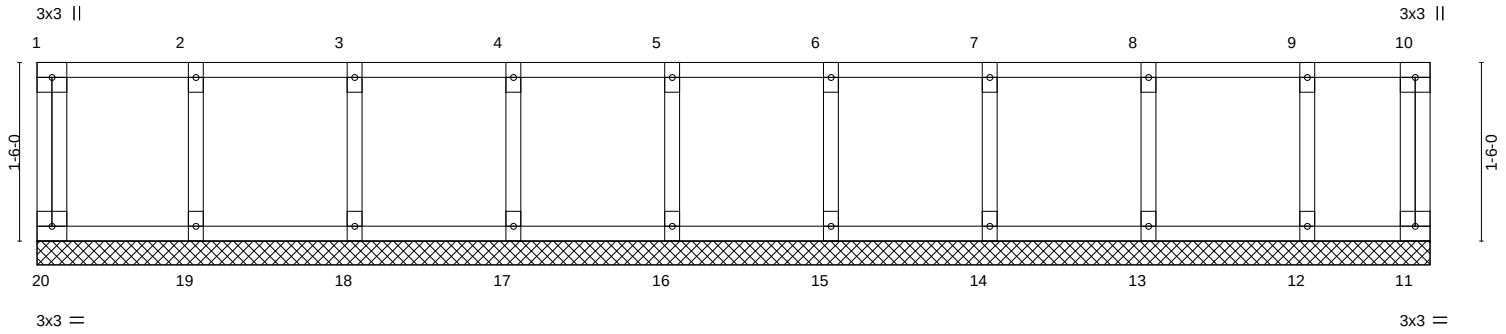

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW14	Floor Supported Gable	1	1	I49485293
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:39 2021 Page 1
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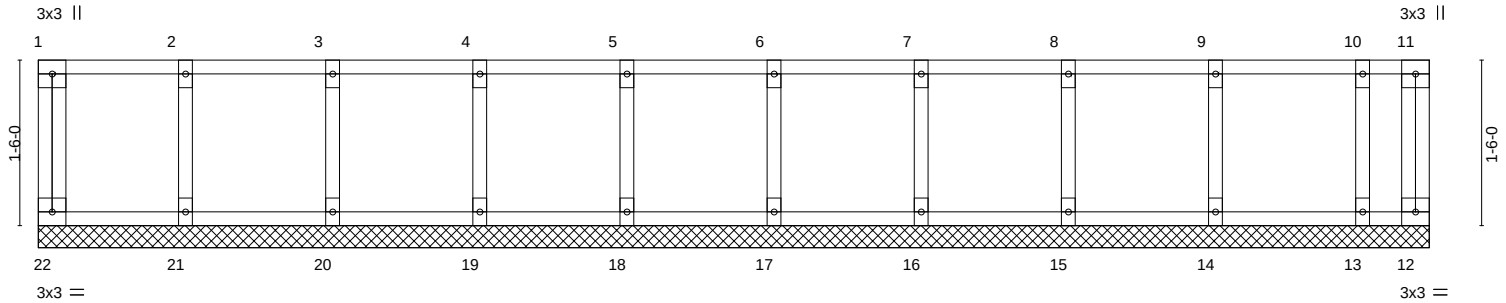

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-4
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

December 31,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW15	Floor Supported Gable	1	1	I49485294
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:40 2021 Page 1
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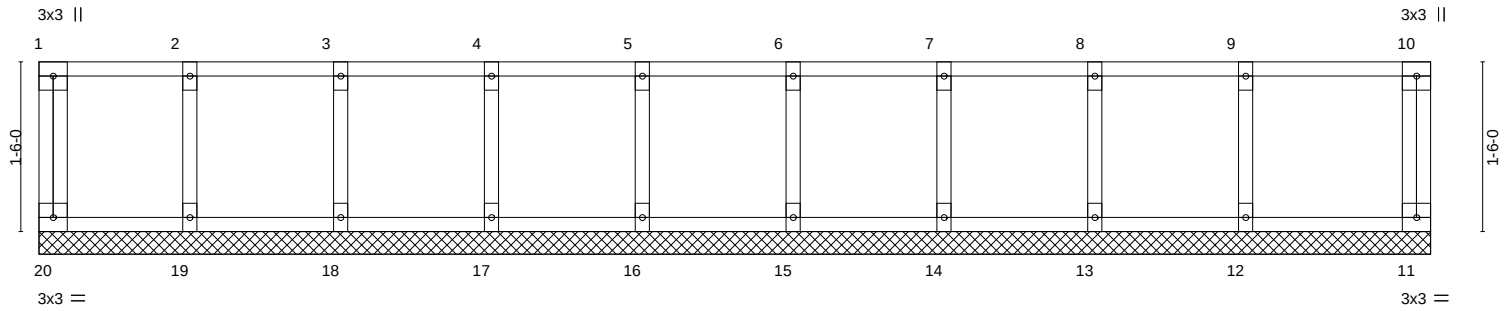

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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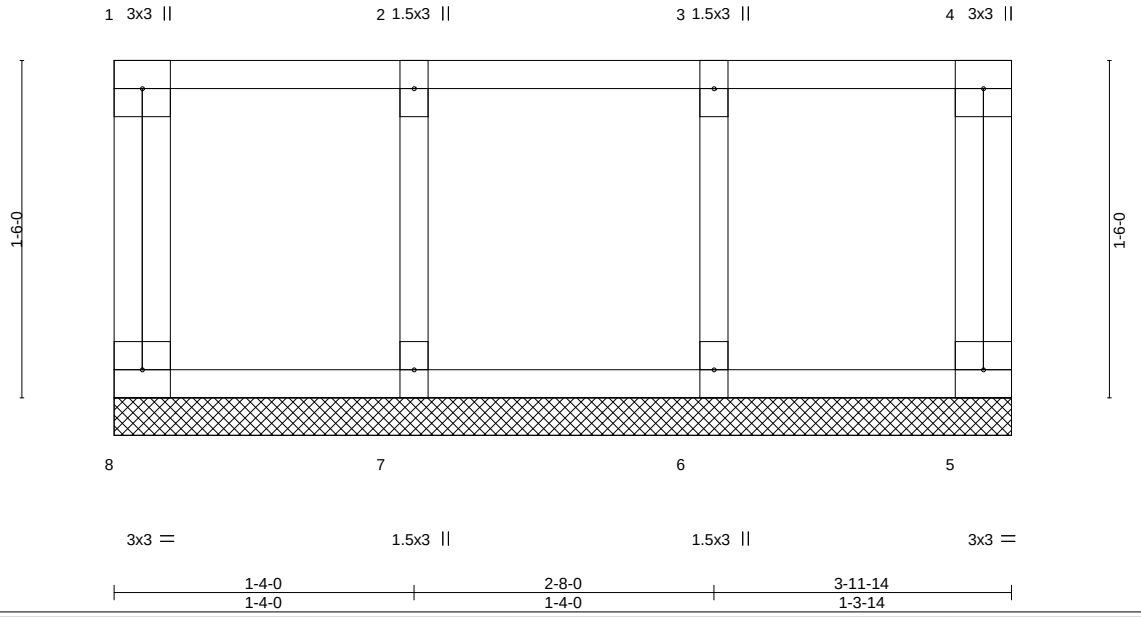
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A 3RD LEVEL- BLDG 2
PRYOR-F3A	KW16	GABLE	1	1	I49485295
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:34:40 2021 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ceJuoSkQk?_MofqJznL4lSnnSvIKpzN_a2hqEAy3pbj



LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-11-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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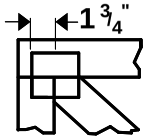
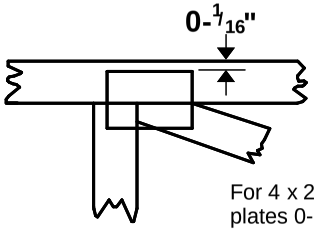
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

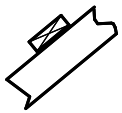
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

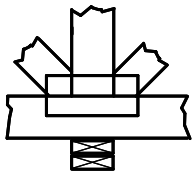
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

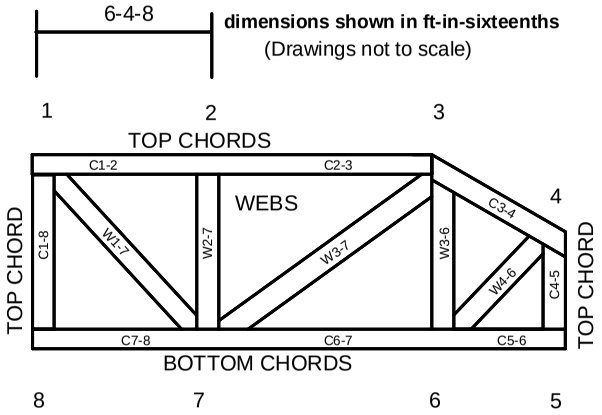


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area A Level 3

Building 2 Area B Level 3

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: January 30, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
3rd floor trusses Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F3B

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO QUANTITIES IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 01/30/2022 BY: cb

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/3/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area B
~~2nd Level~~
3rd Level

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 01/30/2022 *BY:* cb

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F3B
WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49821928 thru I49822019

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/3/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

January 21,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

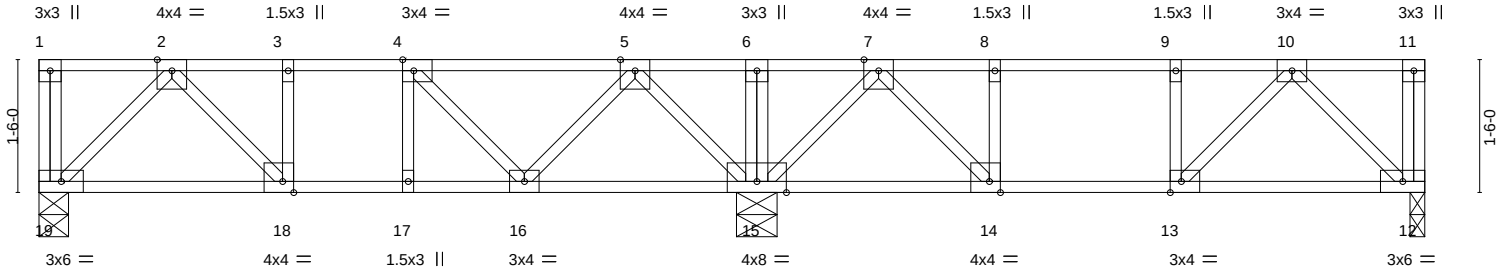
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C1	Floor	6	1	I49821928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZDAWsQteBj65dAOo?Ya2BUHyAbQ3m9vy8DltEPztN6c

1-3-0 1-2-12 1-11-0

Scale = 1:26.0



8-1-4 15-7-12
8-1-4 7-6-8

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.10	12-13	>882	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 89 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-2-0, 15=0-5-8
Max Grav 19=1157(LC 10), 12=1074(LC 7), 15=2548(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1594/0, 3-4=-1594/0, 4-5=-1295/0, 5-6=0/974, 6-7=0/974, 7-8=-1341/17, 8-9=-1341/17, 9-10=-1341/17
BOT CHORD 18-19=0/992, 17-18=0/1594, 16-17=0/1594, 15-16=-29/907, 14-15=-274/758, 13-14=-17/1341, 12-13=0/893
WEBS 6-15=-346/0, 5-15=-1736/0, 5-16=0/775, 4-16=-714/0, 2-19=-1402/0, 2-18=0/872, 3-18=-481/0, 7-15=-1475/0, 7-14=0/1100, 8-14=-701/0, 10-12=-1263/0, 10-13=-101/649, 9-13=-461/53

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

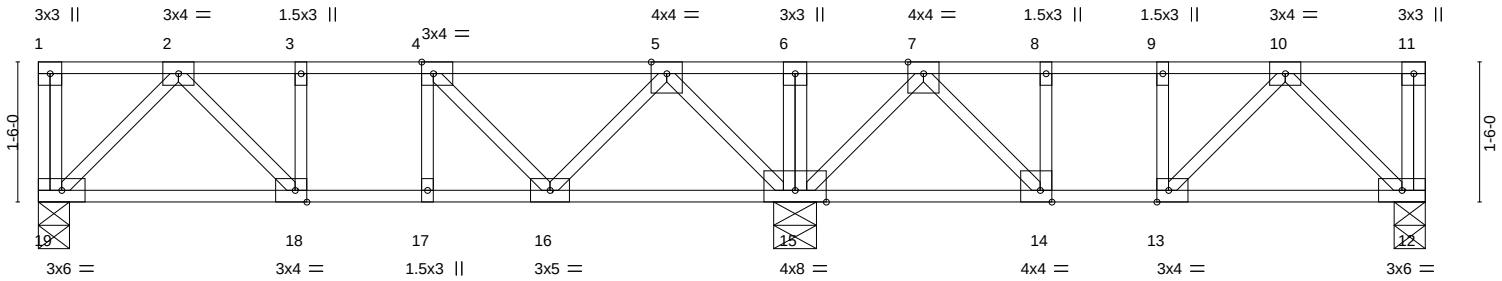
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C2	Floor	23	1	I49821929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:41 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ONXn7TxPmZsEL5ryLphSQlX?Y0WTAuEqW9CBS3ztN6W

1-3-0 1-2-12 1-1-8

Scale = 1:24.7



8-1-4 8-1-4 14-10-4 6-9-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.06	16-17	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 86 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 19=1089(LC 10), 12=943(LC 7), 15=2544(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1430/0, 3-4=-1430/0, 4-5=-1035/0, 5-6=0/1089, 6-7=0/1089, 7-8=-1058/187, 8-9=-1058/187, 9-10=-1058/187
BOT CHORD 18-19=0/923, 17-18=0/1430, 16-17=0/1430, 15-16=-73/577, 14-15=-483/624, 13-14=-187/1058, 12-13=-29/771
WEBS 6-15=-338/0, 2-19=-1305/0, 2-18=0/734, 3-18=-417/0, 5-15=-1764/0, 5-16=0/805, 4-16=-755/0, 7-15=-1433/0, 7-14=0/985, 8-14=-600/0, 10-12=-1090/41, 10-13=-229/416, 9-13=-298/123

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

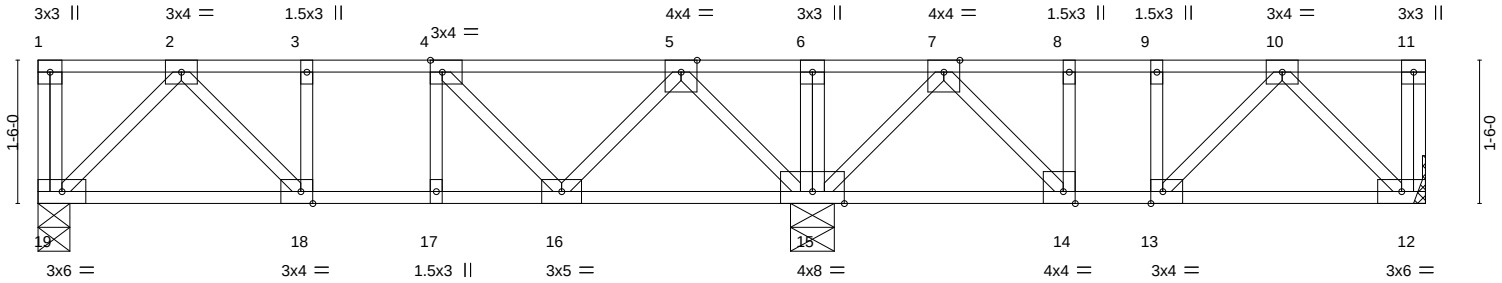
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C3	Floor	1	1	I49821930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:42 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-sZ5AKpy2Xs_5zFQ8vWChzz4A?PsIvLj_lpyl_VztN6V

1-3-0 1-2-12 0-9-8

Scale: 1/2"=1'



8-1-4 14-6-4
8-1-4 6-5-0

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.05	16-17	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.06	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=Mechanical, 15=0-5-8
Max Uplift 12=-42(LC 3)
Max Grav 19=1054(LC 10), 12=888(LC 7), 15=2558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1342/0, 3-4=-1342/0, 4-5=-896/0, 5-6=0/1212, 6-7=0/1212, 7-8=-946/272, 8-9=-946/272, 9-10=-946/272
BOT CHORD 18-19=0/887, 17-18=0/1342, 16-17=0/1342, 15-16=-92/403, 14-15=-589/568, 13-14=-272/946, 12-13=-75/717
WEBS 6-15=-336/0, 5-15=-1777/0, 5-16=0/819, 4-16=-775/0, 2-19=-1254/0, 2-18=0/660, 3-18=-383/0, 7-15=-1431/0, 7-14=0/953, 8-14=-569/0, 10-12=-1014/106, 10-13=-285/333

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

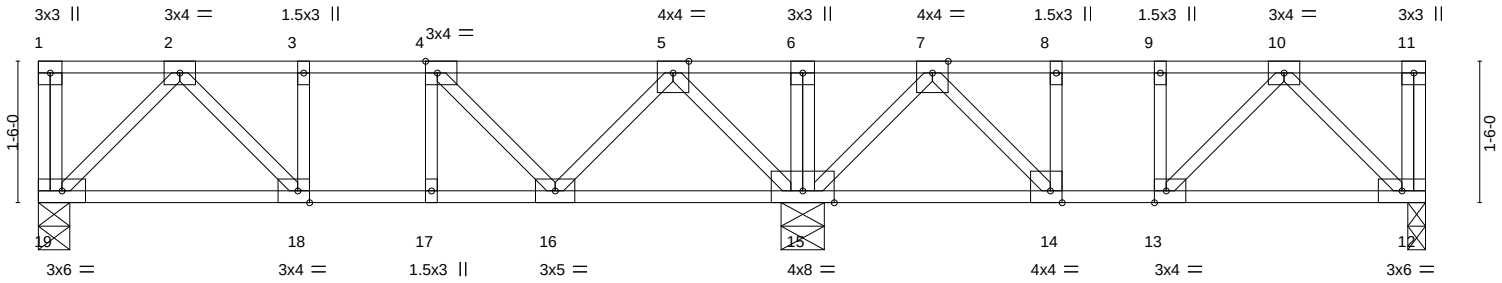
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C4	Floor	1	1	I49821931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KlfYY9zgIA6yaP?LTDkwWAcLwpBdeor7zThIWxztN6U

1-3-0 1-2-12 0-11-12

Scale = 1:24.4



8-1-4 14-8-8
8-1-4 6-7-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.06	16-17	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.07	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 86 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 19=0-4-0, 12=0-2-4, 15=0-5-8
Max Uplift 12=-15(LC 3)
Max Grav 19=1074(LC 10), 12=919(LC 7), 15=2549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1392/0, 3-4=-1392/0, 4-5=-975/0, 5-6=0/1120, 6-7=0/1120, 7-8=-1008/224, 8-9=-1008/224, 9-10=-1008/224
BOT CHORD 18-19=0/907, 17-18=0/1392, 16-17=0/1392, 15-16=-81/503, 14-15=-529/599, 13-14=-224/1008, 12-13=-48/747
WEBS 6-15=-338/0, 2-19=-1283/0, 2-18=0/702, 3-18=-402/0, 5-15=-1770/0, 5-16=0/811, 4-16=-764/0, 7-15=-1431/0, 7-14=0/971, 8-14=-586/0, 10-12=-1057/69, 10-13=-254/378, 9-13=-271/136

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C6	Floor	6	1	I49821932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:44 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-oyCwlV_I3UEpCYaX0xF92O9VsDWANG6HC7Rr2OztN6T

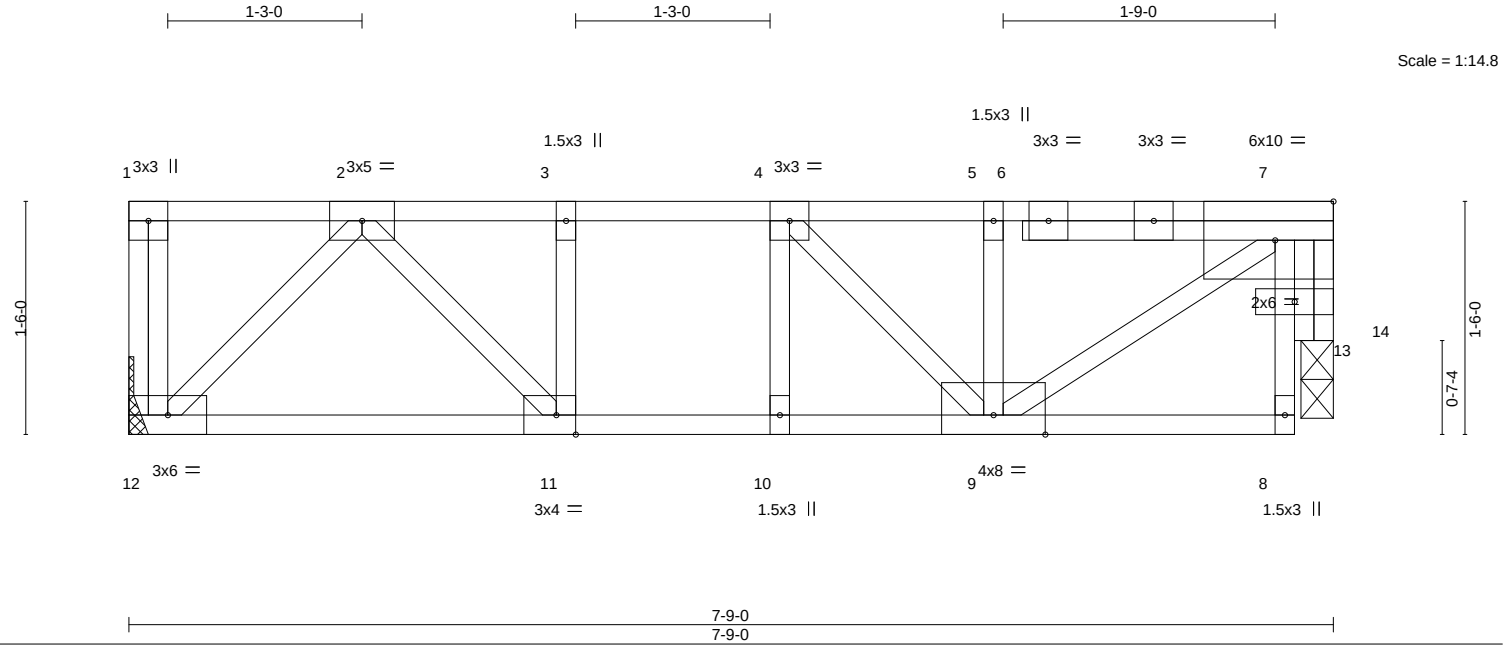


Plate Offsets (X,Y)-- [7:0-4-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 7-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 14=0-2-8
Max Grav 12=1121(LC 1), 14=1073(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1482/0, 3-4=-1482/0, 4-5=-1257/0, 5-7=-1265/0
BOT CHORD	11-12=0/950, 10-11=0/1482, 9-10=0/1482
WEBS	2-12=-1344/0, 2-11=0/835, 3-11=-474/0, 7-9=0/1364, 5-9=-561/17, 4-9=-580/0, 7-14=-1107/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C6A	Floor	4	1	I49821933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:45 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-G8mlzr_wqnNgqi9jaemObbigEdvQ6jIQRnAPbqztN6S

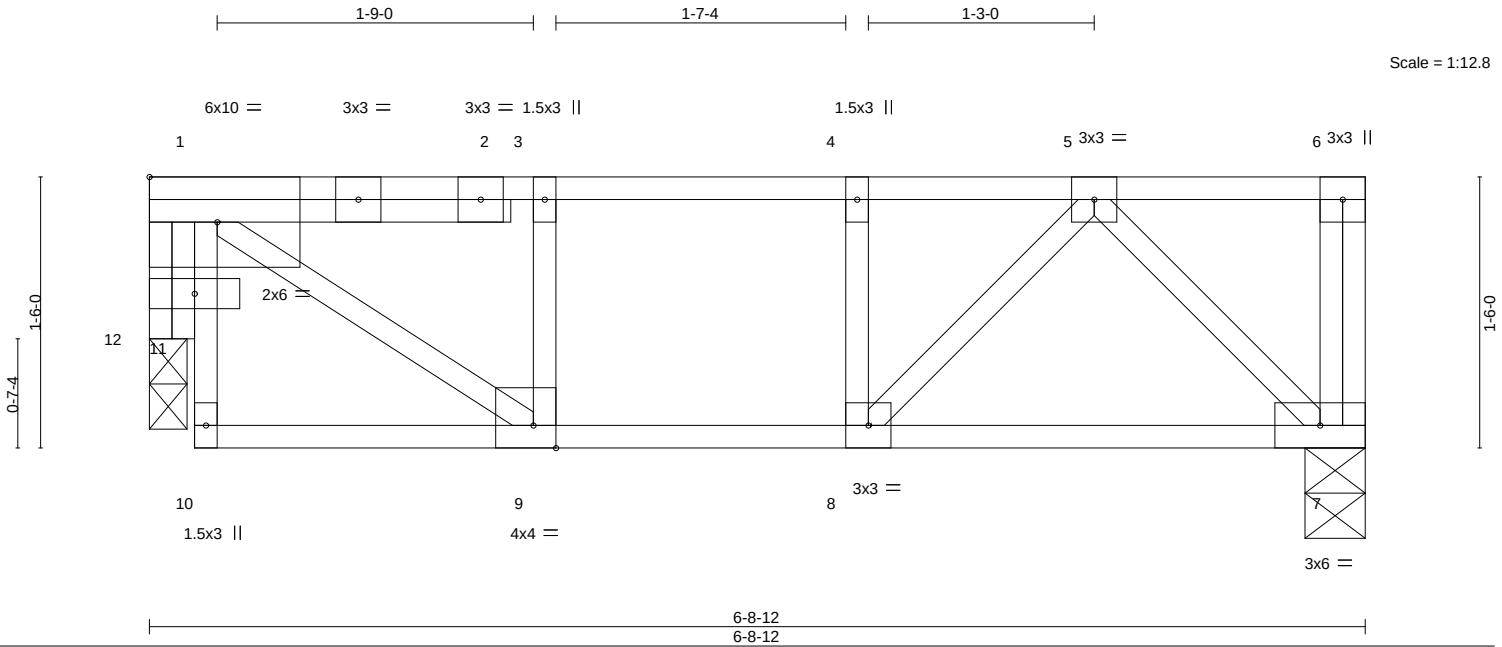

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.07	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.08	7-8	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 12=0-2-8
Max Grav 7=968(LC 1), 12=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1098/0, 3-4=-1092/0, 4-5=-1092/0
BOT CHORD	8-9=0/1092, 7-8=0/790
WEBS	1-9=0/1195, 3-9=-621/0, 5-7=-1118/0, 5-8=0/567, 4-8=-355/0, 1-12=-946/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C6B	Floor	2	1	I49821934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:46 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kKKgAB?Yb5VXRskw8MHd7pEzP1LzrDlZgRwy7GztN6R

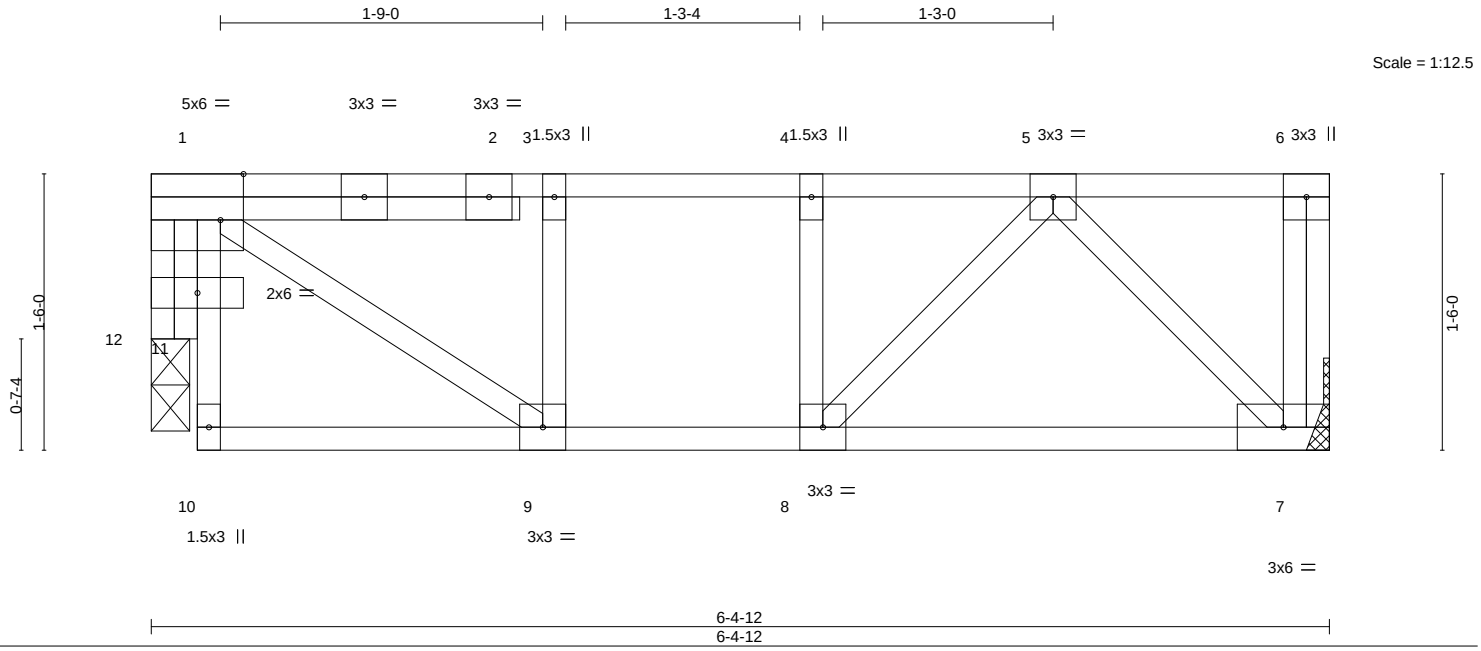

Plate Offsets (X,Y)-- [1:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 12=0-2-8
Max Grav 7=398(LC 1), 12=377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-434/0, 3-4=-431/0, 4-5=-431/0
BOT CHORD	8-9=0/431, 7-8=0/319
WEBS	5-7=-451/0, 1-9=0/467, 1-12=-388/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C7	Floor	1	1	I49821935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:47 2022 Page 1
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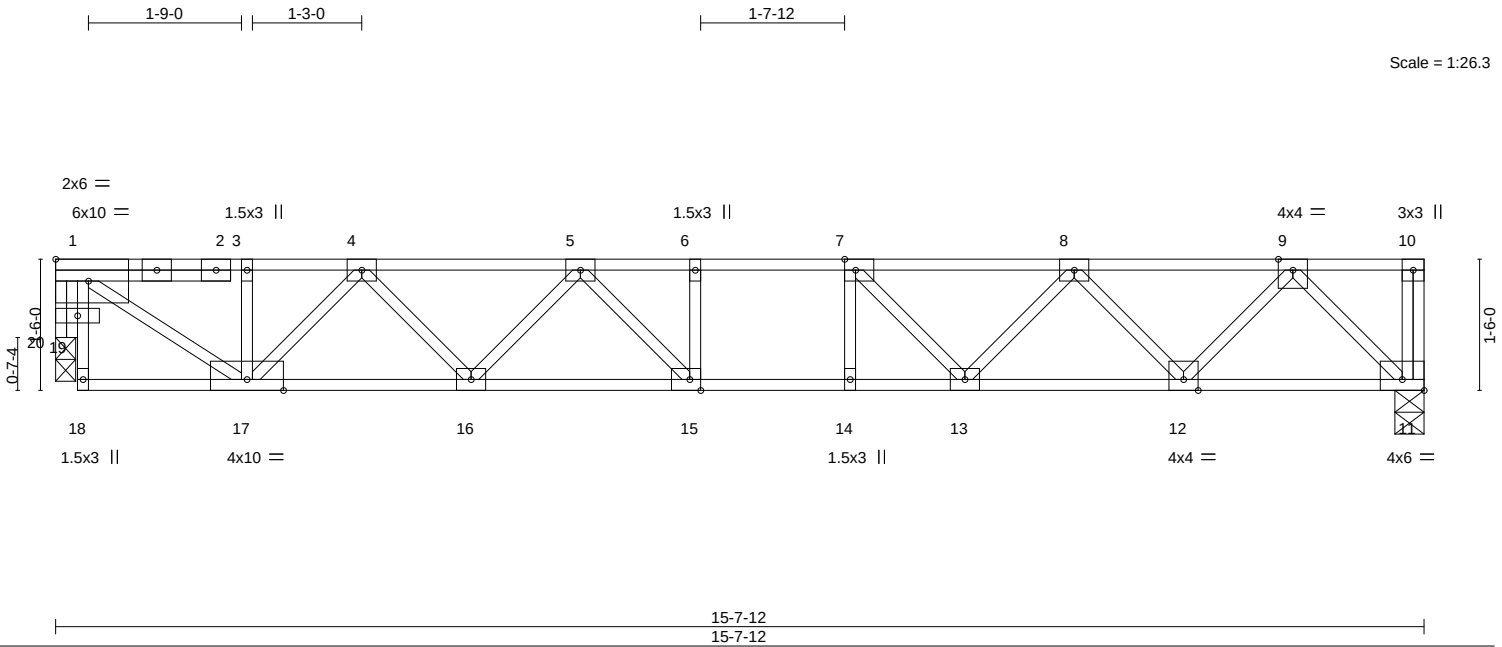

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:Edge,0-1-8], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.22	15-16	>843	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.27	15-16	>693	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 89 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-17: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=0-4-0, 20=0-2-12
Max Grav 11=1279(LC 1), 20=1255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1641/0, 3-4=-1636/0, 4-5=-2947/0, 5-6=-3539/0, 6-7=-3539/0, 7-8=-3135/0, 8-9=-1988/0
BOT CHORD	16-17=0/2469, 15-16=0/3402, 14-15=0/3539, 13-14=0/3539, 12-13=0/2752, 11-12=0/1205
WEBS	1-17=0/1834, 4-17=-1207/0, 4-16=0/710, 5-16=-677/0, 5-15=-216/635, 6-15=-302/0, 9-11=-1705/0, 9-12=0/1163, 8-12=-1136/0, 8-13=0/641, 7-13=-809/0, 1-20=-1283/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C8	Floor	3	1	I49821936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:48 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hjSRbt1o7ilFhAtIFnJ5DEKAzqvBJzjs7IP3B9ztN6P

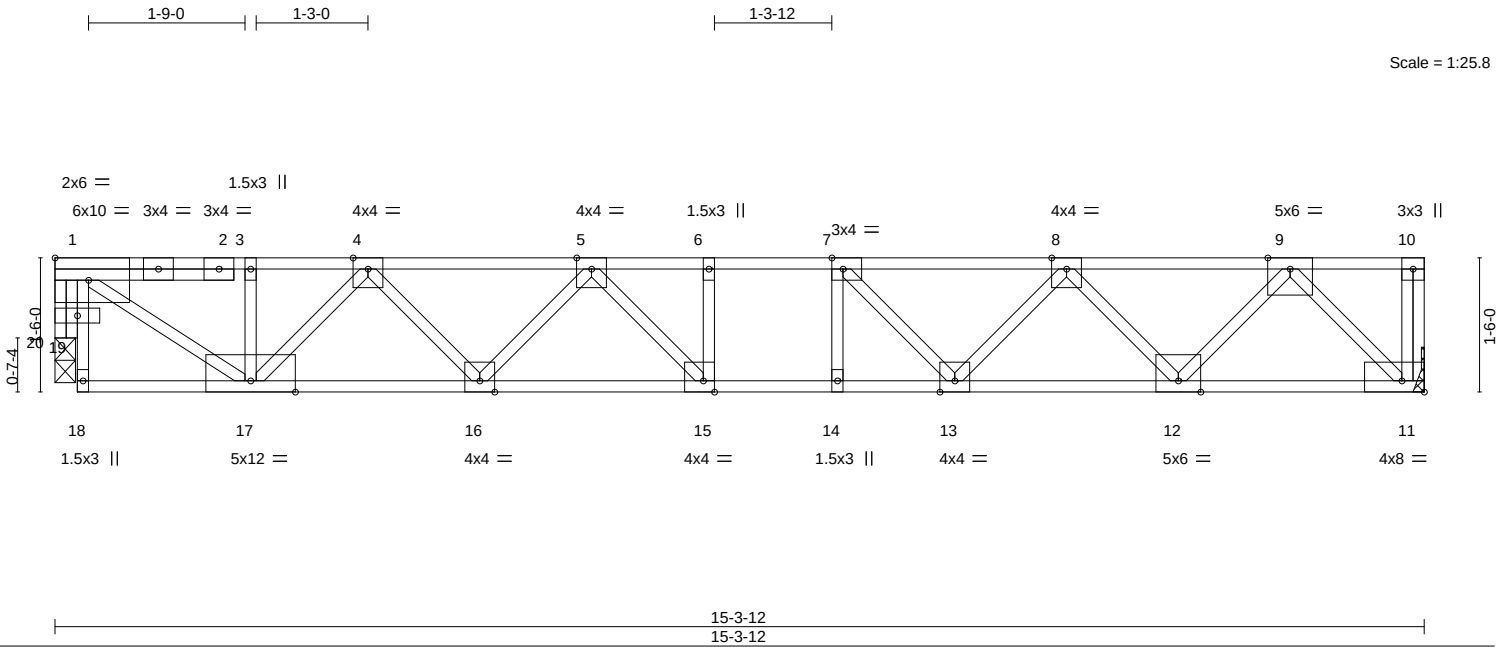

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [11:Edge,0-1-8], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.22	15-16	>811	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.28	15-16	>651	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 88 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-18,1-17: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 20=0-2-12
Max Grav 11=1877(LC 1), 20=1841(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-2400/0, 3-4=-2393/0, 4-5=-4280/0, 5-6=-5093/0, 6-7=-5093/0, 7-8=-4545/0, 8-9=-2902/0
BOT CHORD	16-17=0/3601, 15-16=0/4930, 14-15=0/5093, 13-14=0/5093, 12-13=0/4014, 11-12=0/1765
WEBS	9-11=-2496/0, 9-12=0/1691, 8-12=-1652/0, 8-13=0/889, 7-13=-1101/0, 7-14=-295/352, 1-17=0/2678, 3-17=-268/0, 4-17=-1751/0, 4-16=0/1009, 5-16=-966/0, 5-15=-352/850, 6-15=-364/15, 1-20=-1883/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C10	Floor	8	1	I49821937
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:36 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1Pjv4muHy0EyFKz?YF6Hkiq7X?mGVY75MtVQmrztN6b

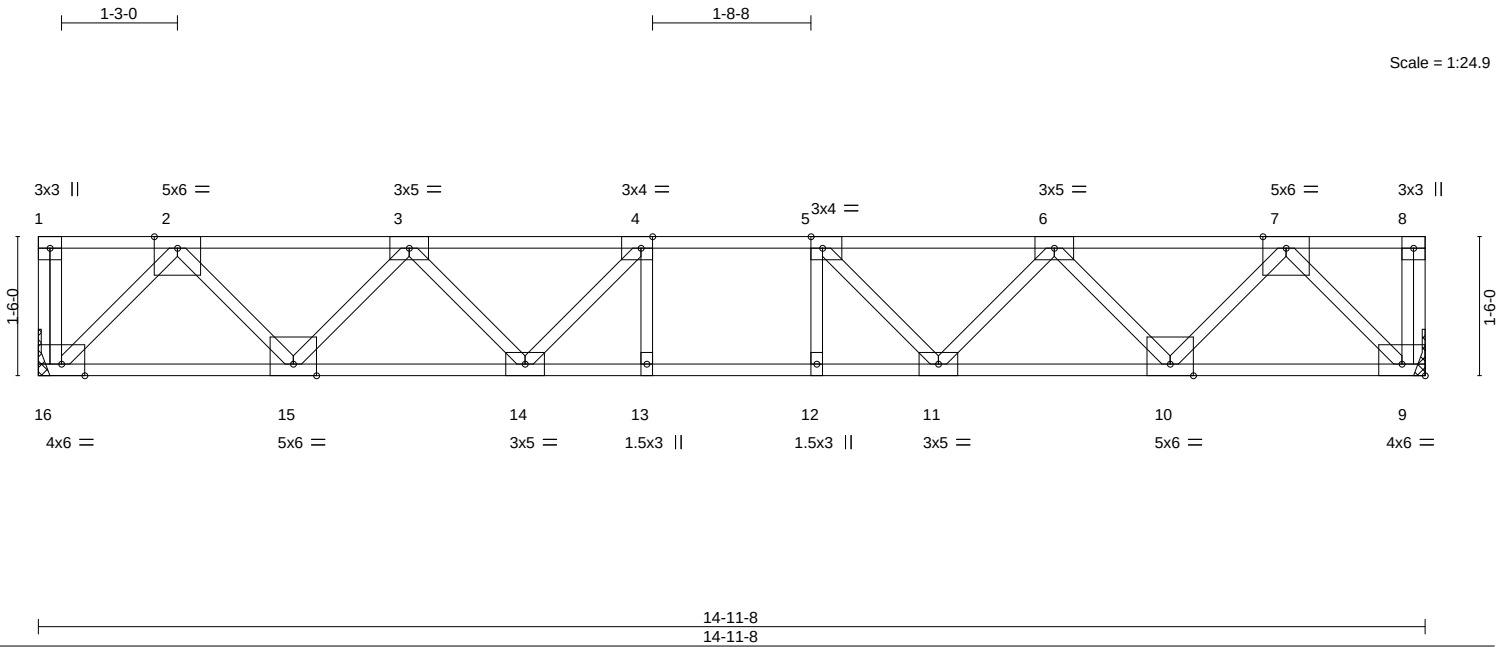

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.22	13-14	>799	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.27	13-14	>660	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Grav 16=1839(LC 1), 9=1839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2829/0, 3-4=-4398/0, 4-5=-4895/0, 5-6=-4398/0, 6-7=-2829/0
BOT CHORD 15-16=0/1725, 14-15=0/3907, 13-14=0/4895, 12-13=0/4895, 11-12=0/4895, 10-11=0/3907, 9-10=0/1725
WEBS 2-16=-2440/0, 2-15=0/1641, 3-15=-1603/0, 3-14=0/844, 4-14=-1097/0, 7-9=-2440/0, 7-10=0/1641, 6-10=-1603/0, 6-11=0/844, 5-11=-1097/0, 5-12=-365/393, 4-13=-365/393

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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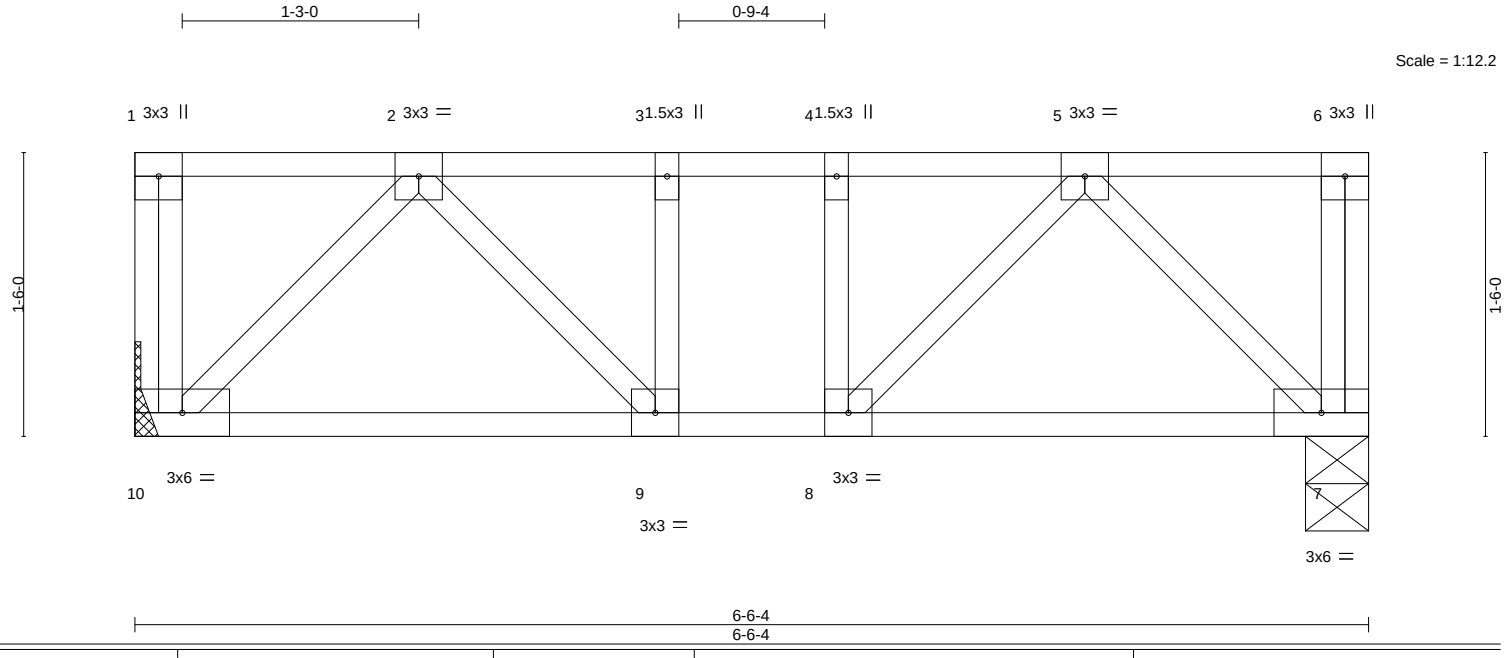
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C11	Floor	8	1	I49821938
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:37 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-VbHHH6uvjKMosUYB6zdWGvMQUOFdE8BFbXE_JIztN6a



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD 9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS 2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C13	Floor	4	1	I49821939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:38 2022 Page 1
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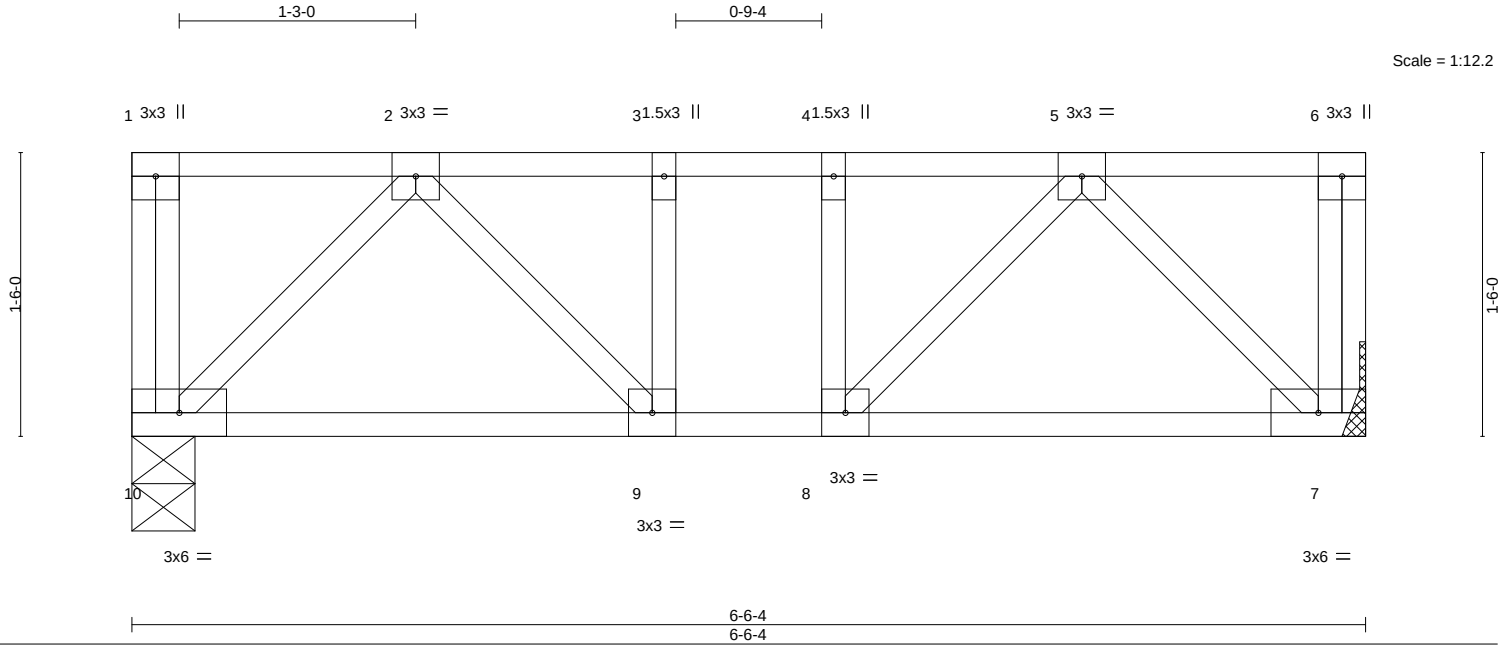

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=Mechanical
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD 9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS 2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C14	Floor	22	1	I49821940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:38 2022 Page 1
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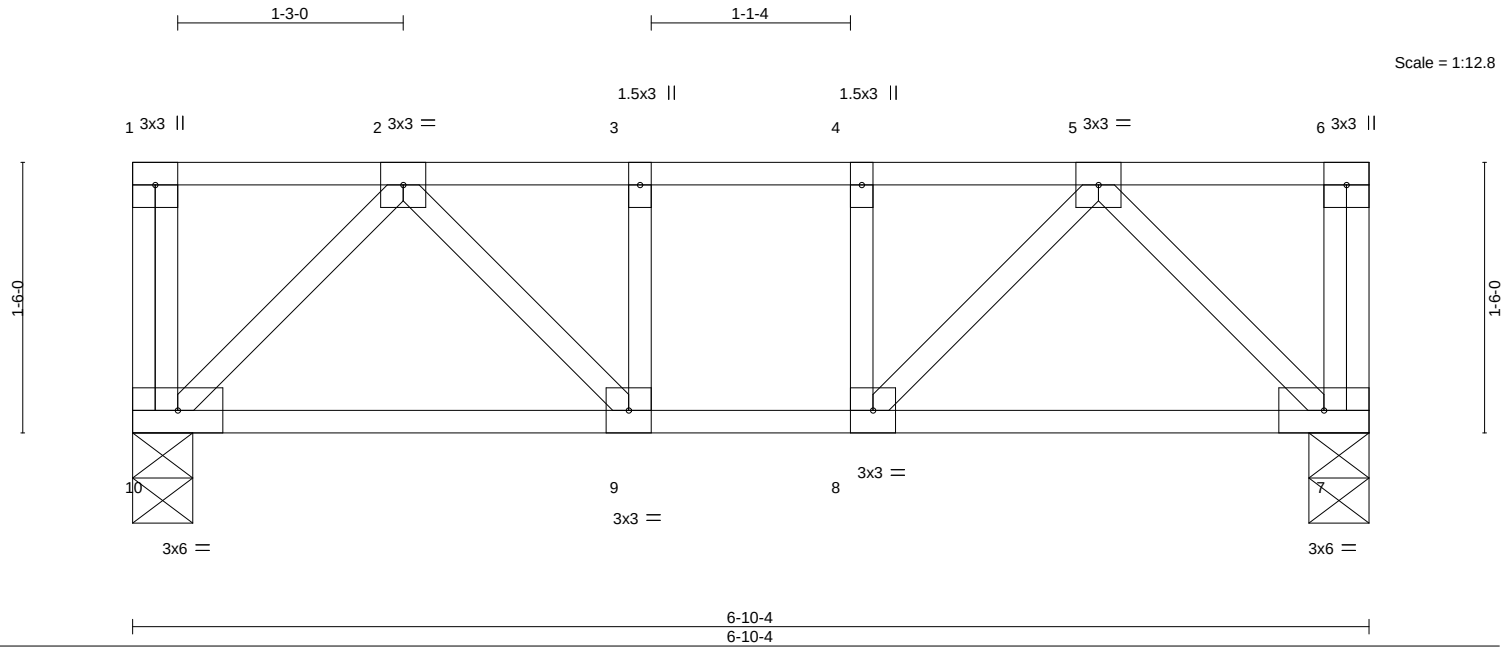

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD 9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS 2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C15	Floor	1	1	I49821941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:39 2022 Page 1
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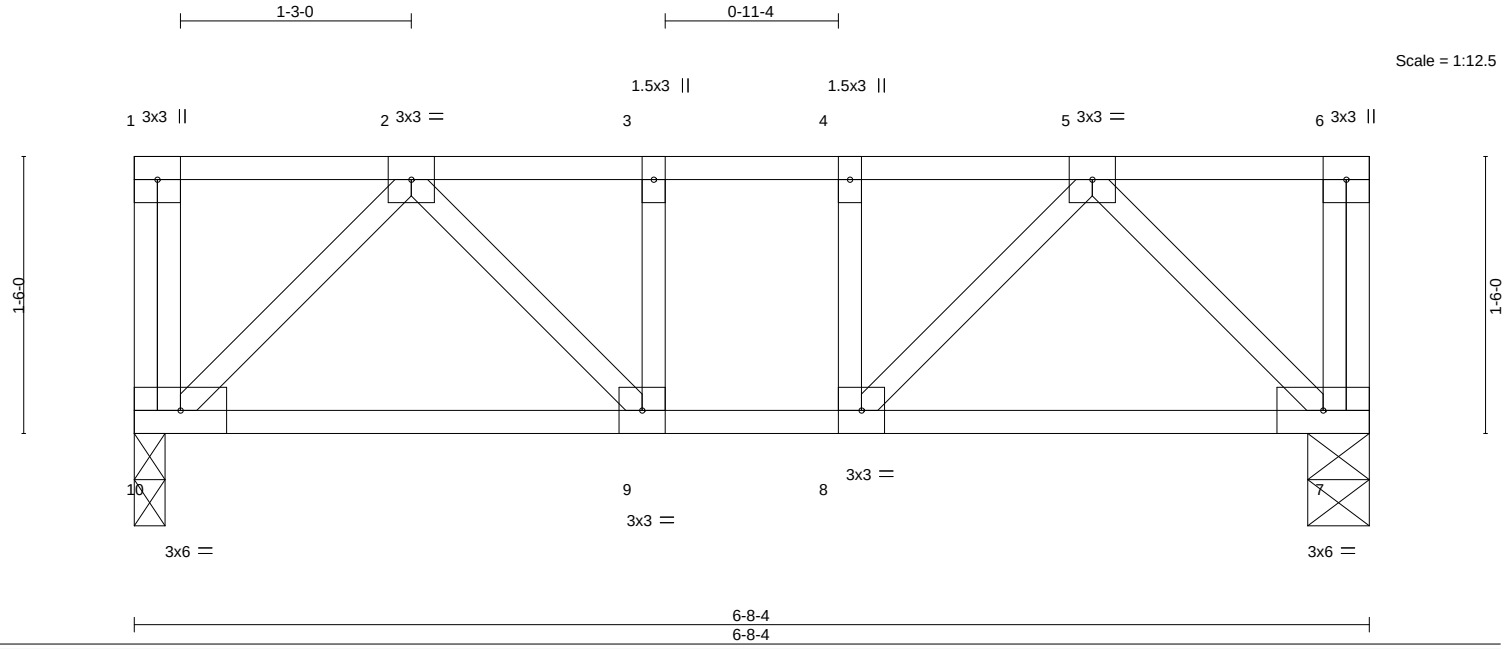

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/469, 3-9=-266/0, 5-7=-934/0, 5-8=0/469, 4-8=-266/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C16	FLOOR	2	1	I49821942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:40 2022 Page 1
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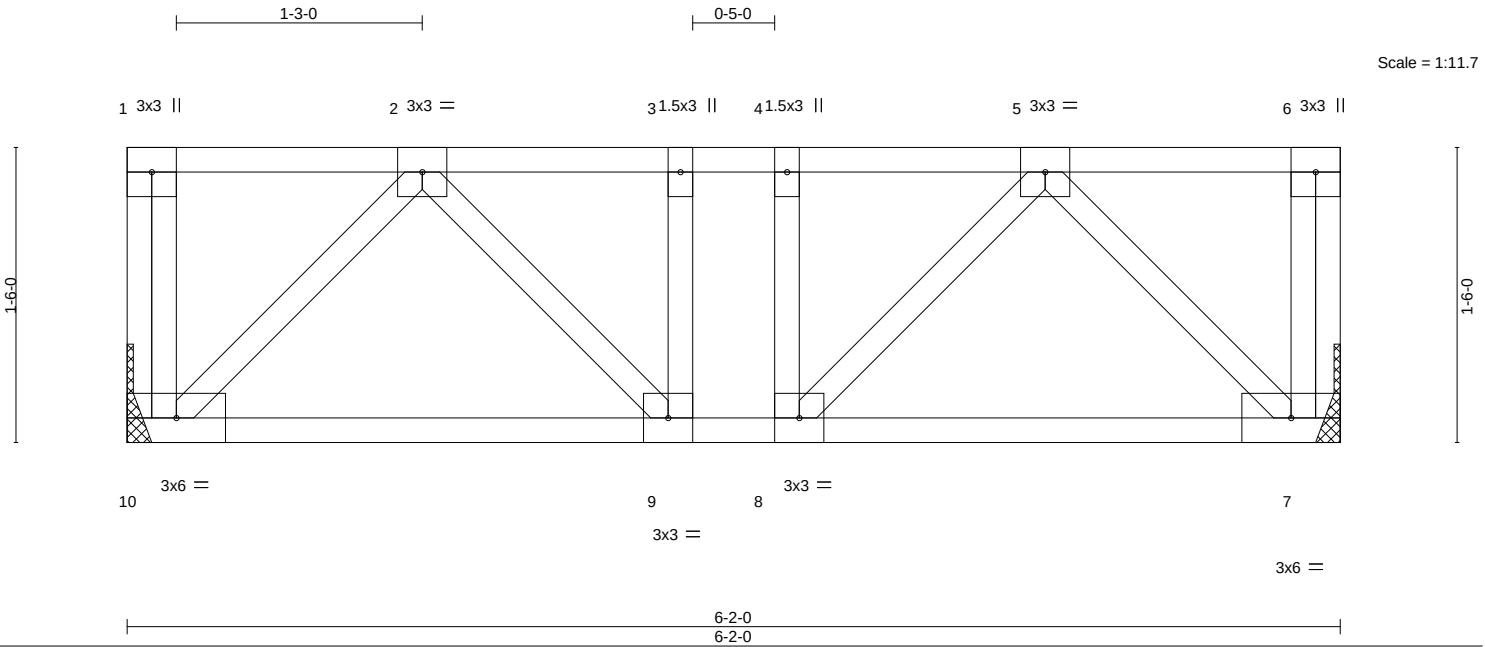

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=740(LC 1), 7=740(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-803/0, 3-4=-803/0, 4-5=-803/0
BOT CHORD 9-10=0/597, 8-9=0/803, 7-8=0/597
WEBS 2-10=-844/0, 2-9=0/356, 5-7=-844/0, 5-8=0/356

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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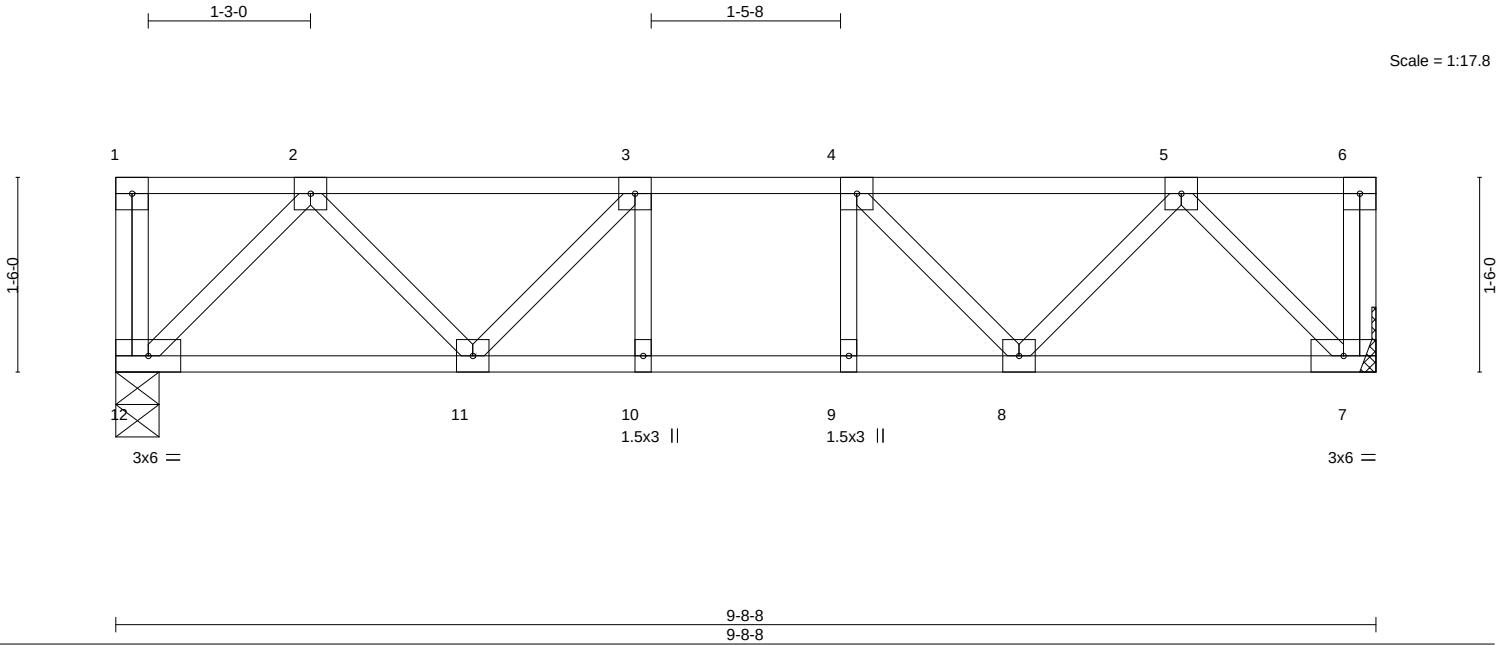
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	C17	Floor	5	1	I49821943
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:40 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wAzPw7xn0FkNjxGmn5ADuY_tAcBCRVThHVTevdztN6X



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=Mechanical
Max Grav 12=788(LC 1), 7=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1042/0, 3-4=-1360/0, 4-5=-1042/0
BOT CHORD 11-12=0/725, 10-11=0/1360, 9-10=0/1360, 8-9=0/1360, 7-8=0/725
WEBS 2-12=-1025/0, 2-11=0/472, 3-11=-500/0, 5-7=-1025/0, 5-8=0/472, 4-8=-500/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

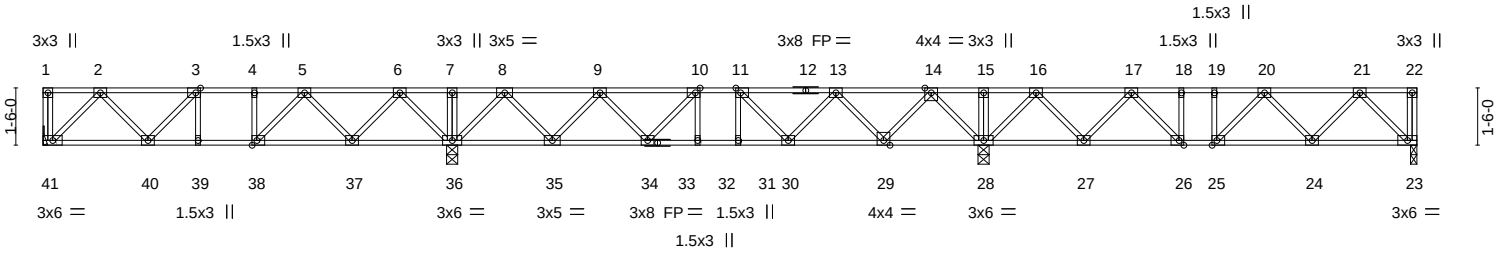
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F1	Floor	7	1	I49821944
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:50 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-d6aB0Y23fK?ywT1hNBMZIfPYeecCnzM9a3uAG1ztN6N

1-3-0 1-4-4 0-11-4 0-8-14

Scale = 1:60.4



10-8-12	24-8-0	36-0-6
10-8-12	13-11-4	11-4-6

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.07	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	23	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=597(LC 5), 23=628(LC 5), 36=1767(LC 3), 28=1871(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-784/0, 3-4=-991/0, 4-5=-991/0, 5-6=-424/335, 6-7=0/1253, 7-8=0/1253, 8-9=-414/199, 9-10=-1107/0, 10-11=-1287/0, 11-13=-1060/0, 13-14=-303/281, 14-15=0/1428, 15-16=0/1428, 16-17=-392/452, 17-18=-1065/0, 18-19=-1065/0, 19-20=-1065/0, 20-21=-849/0
BOT CHORD 40-41=0/547, 39-40=0/991, 38-39=0/991, 37-38=-104/816, 36-37=-569/17, 35-36=-437/0, 34-35=-21/911, 32-34=0/1287, 31-32=0/1287, 30-31=0/1287, 29-30=-80/829, 28-29=-550/0, 27-28=-717/0, 26-27=-197/832, 25-26=0/1065, 24-25=0/1091, 23-24=0/572
WEBS 2-41=-773/0, 2-40=0/353, 3-40=-299/73, 6-36=-1093/0, 6-37=0/685, 5-37=-683/0, 5-38=0/475, 8-36=-1191/0, 8-35=0/808, 9-35=-779/0, 9-34=0/338, 10-34=-321/0, 14-28=-1253/0, 14-29=0/866, 13-29=-834/0, 13-30=0/401, 11-30=-404/0, 16-28=-1180/0, 16-27=0/768, 17-27=-761/0, 17-26=0/553, 18-26=-270/0, 21-23=-809/0, 21-24=0/412, 20-24=-359/11, 20-25=-287/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F2	Floor	5	1	I49821945
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9BXEN0F5uE0hrxFmJZeJx13Dj5_7XAyWGYm0q6ztN67

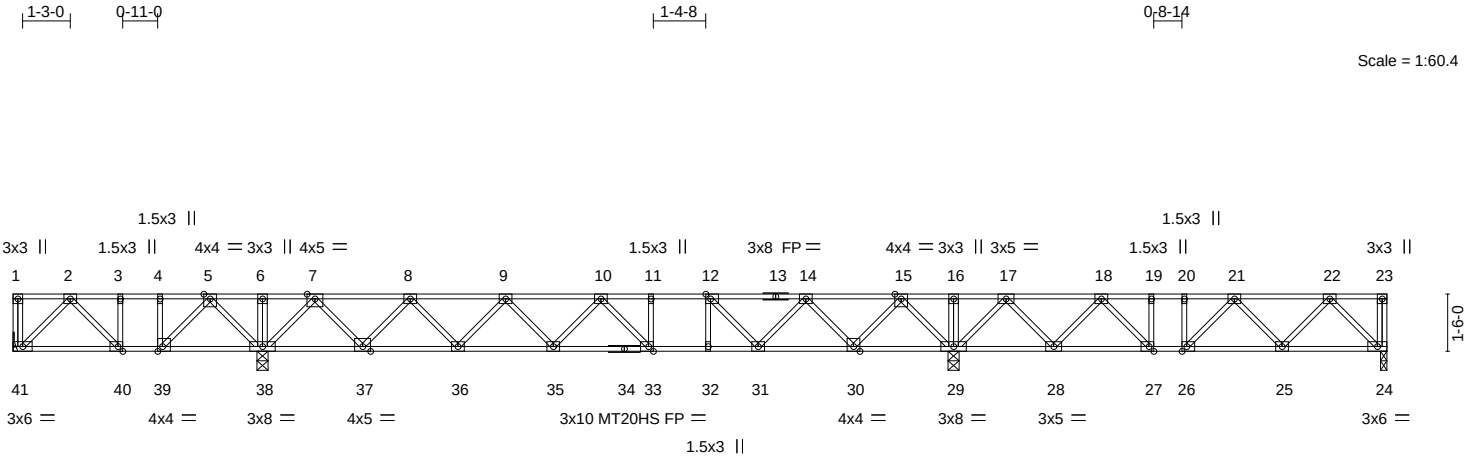

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.16	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.26	33-35	>831	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-211(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=271(LC 5), 24=606(LC 5), 38=1989(LC 3), 29=2166(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-144/675, 3-4=-144/675, 4-5=-144/675, 5-6=0/1774, 6-7=0/1774, 8-9=-1415/0, 9-10=-2079/0, 10-11=-2030/0, 11-12=-2030/0, 12-14=-1460/0, 15-16=0/1909, 16-17=0/1909, 17-18=-257/858, 18-19=-978/245, 19-20=-978/245, 20-21=-978/245, 21-22=-810/0
BOT CHORD 39-40=-675/144, 38-39=-1235/0, 37-38=-686/0, 36-37=0/940, 35-36=0/1882, 33-35=0/2212, 32-33=0/2030, 31-32=0/2030, 30-31=0/980, 29-30=-783/0, 28-29=-1178/0, 27-28=-540/718, 26-27=-245/978, 25-26=-38/1030, 24-25=0/551
WEBS 2-41=-271/350, 2-40=-619/0, 3-40=0/312, 5-38=-993/0, 5-39=0/955, 4-39=-505/0, 7-38=-1570/0, 7-37=0/1184, 8-37=-1134/0, 8-36=0/712, 9-36=-699/0, 9-35=0/299, 10-33=-433/38, 15-29=-1592/0, 15-30=0/1171, 14-30=-1128/0, 14-31=0/755, 12-31=-886/0, 12-32=0/295, 17-29=-1261/0, 17-28=0/844, 18-28=-848/0, 18-27=0/671, 19-27=-313/0, 22-24=-779/0, 22-25=-36/384, 21-25=-327/105, 21-26=-405/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 41.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F3	Floor	3	1	I49821946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:17 2022 Page 1
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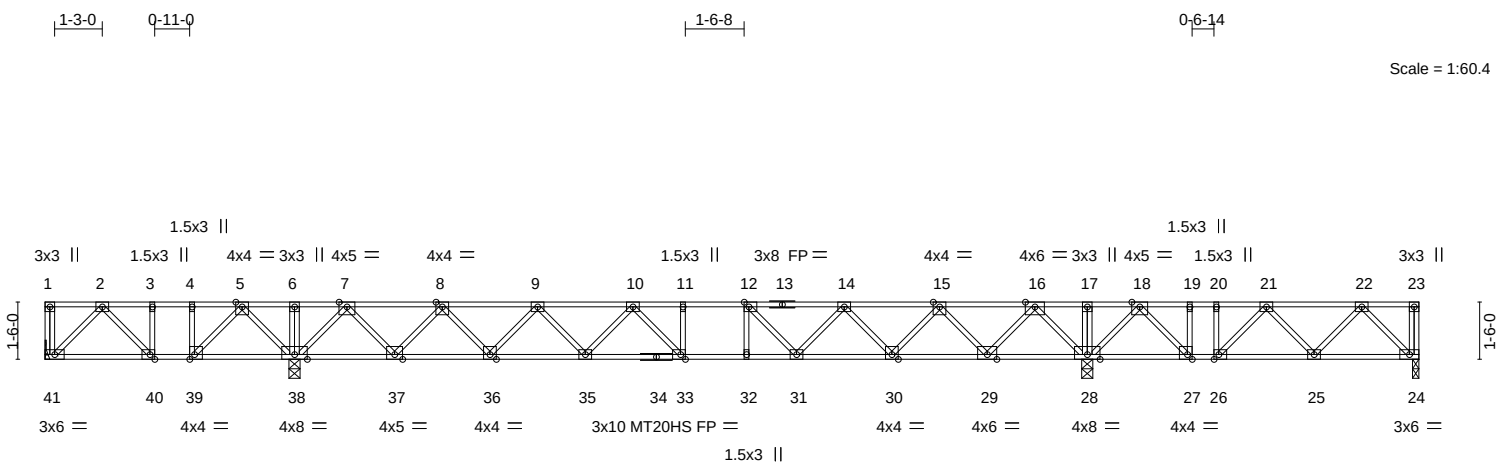

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

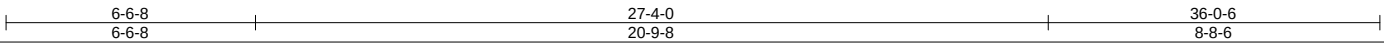

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.18	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.30	33-35	>844	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 24=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-296(LC 6), 24=-188(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 41 except 24=385(LC 5), 38=2214(LC 3), 28=2361(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-53/871, 3-4=-53/871, 4-5=-53/871, 5-6=0/2185, 6-7=0/2185, 8-9=-1561/0, 9-10=-2455/0, 10-11=-2744/0, 11-12=-2744/0, 12-14=-2348/0, 14-15=-1359/0, 15-16=0/305, 16-17=0/2577, 17-18=0/2577, 18-19=-103/1309, 19-20=-103/1309, 20-21=-103/1309, 21-22=-395/472
BOT CHORD 40-41=-329/154, 39-40=-871/53, 38-39=-1547/0, 37-38=-943/0, 36-37=0/964, 35-36=0/2143, 33-35=0/2730, 32-33=0/2744, 31-32=0/2744, 30-31=0/1985, 29-30=0/708, 28-29=-1278/0, 27-28=-1921/0, 26-27=-1309/103, 25-26=-793/409, 24-25=-211/331
WEBS 2-41=-217/465, 2-40=-785/0, 3-40=0/412, 5-38=-1104/0, 5-39=0/1122, 4-39=-606/0, 7-38=-1765/0, 7-37=0/1374, 8-37=-1325/0, 8-36=0/905, 9-36=-882/0, 9-35=0/475, 10-35=-415/0, 10-33=-211/321, 16-28=-1837/0, 16-29=0/1447, 15-29=-1405/0, 15-30=0/979, 14-30=-942/0, 14-31=0/572, 12-31=-685/0, 18-28=-1235/0, 18-27=0/1187, 19-27=-601/0, 22-24=-468/298, 22-25=-388/94, 21-25=-21/477, 21-26=-910/0, 20-26=0/410

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 41 and 188 lb uplift at joint 24.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F4	Floor	5	1	I49821947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:27 2022 Page 1
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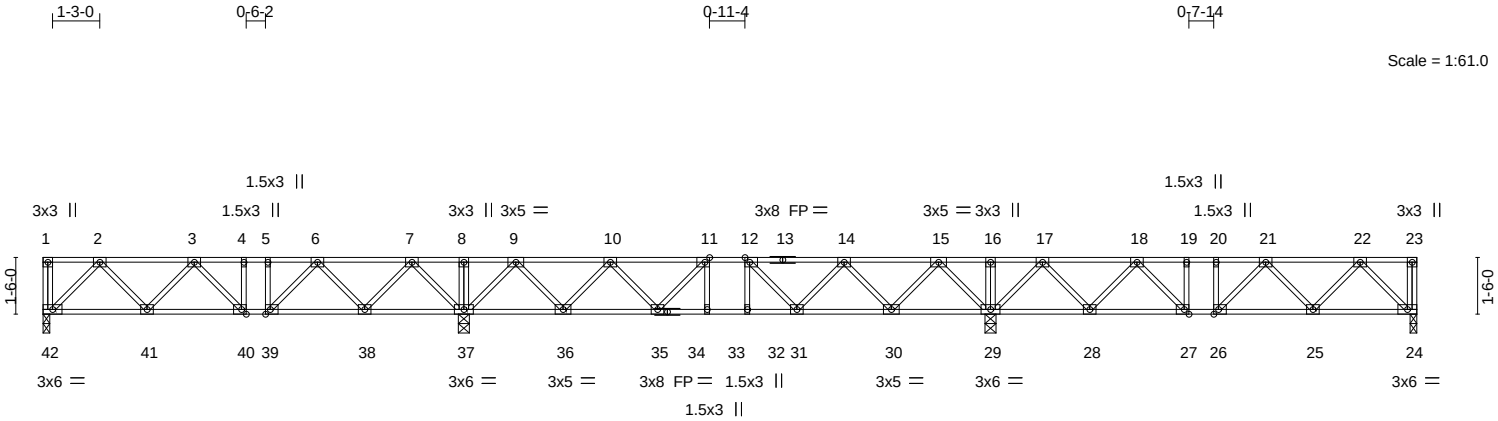

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=623(LC 5), 37=1842(LC 3), 29=1843(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-819/0, 3-4=-1015/9, 4-5=-1015/9, 5-6=-1015/9, 6-7=-380/465, 7-8=0/1431, 8-9=0/1431, 9-10=-262/291, 10-11=-992/12, 11-12=-1198/0, 12-14=-997/12, 14-15=-276/291, 15-16=0/1413, 16-17=0/1413, 17-18=-394/445, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-840/0
BOT CHORD 41-42=0/557, 40-41=0/1048, 39-40=-9/1015, 38-39=-213/805, 37-38=-730/0, 36-37=-568/0, 35-36=-102/776, 33-35=0/1198, 32-33=0/1198, 31-32=0/1198, 30-31=-102/786, 29-30=-557/0, 28-29=-708/0, 27-28=-193/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-787/0, 2-41=0/390, 3-41=-340/22, 3-40=-295/0, 7-37=-1165/0, 7-38=0/756, 6-38=-743/0, 6-39=0/515, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/12, 21-26=-286/0, 17-29=-1171/0, 17-28=0/761, 18-28=-752/0, 18-27=0/535, 19-27=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F4A	Floor	1	1	I49821948
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:38 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DLTL5zeAL329hrivBHDpEnOl?_ye0gFDdXWiyFztN5d

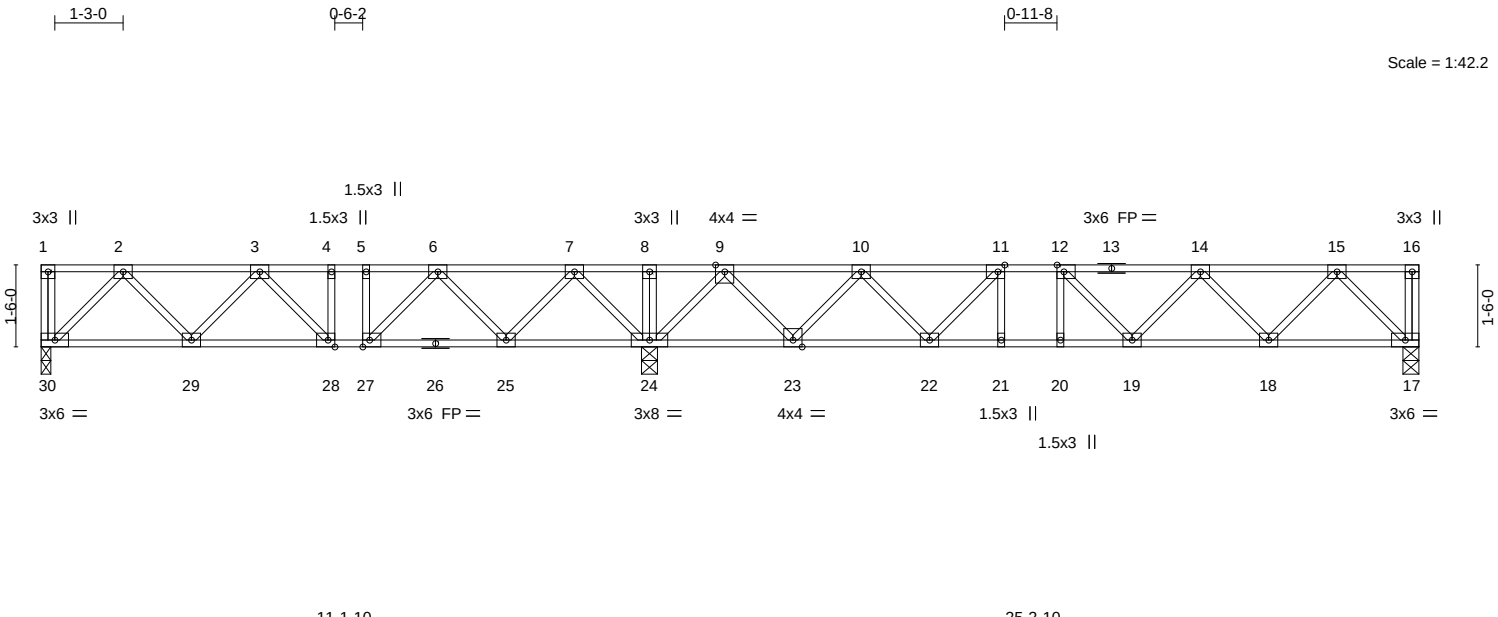

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.07	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.11	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 141 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 30=0-2-2, 17=0-3-8, 24=0-3-8
Max Grav 30=599(LC 3), 17=782(LC 4), 24=1978(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-794/0, 3-4=-961/82, 4-5=-961/82, 5-6=-961/82, 6-7=-298/576, 7-8=0/1569, 8-9=0/1569, 9-10=-353/223, 10-11=-1309/0, 11-12=-1680/0, 12-14=-1641/0, 14-15=-1145/0
BOT CHORD 29-30=0/543, 28-29=0/1010, 27-28=-82/961, 25-27=-307/736, 24-25=-857/0, 23-24=-587/0, 22-23=0/972, 21-22=0/1680, 20-21=0/1680, 19-20=0/1680, 18-19=0/1549, 17-18=0/718
WEBS 2-30=-768/0, 2-29=0/373, 3-29=-321/48, 3-28=-335/0, 7-24=-1189/0, 7-25=0/779, 6-25=-768/0, 6-27=0/555, 5-27=-264/0, 9-24=-1398/0, 9-23=0/998, 10-23=-962/0, 10-22=0/547, 11-22=-629/0, 15-17=-1016/0, 15-18=0/634, 14-18=-601/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 30.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

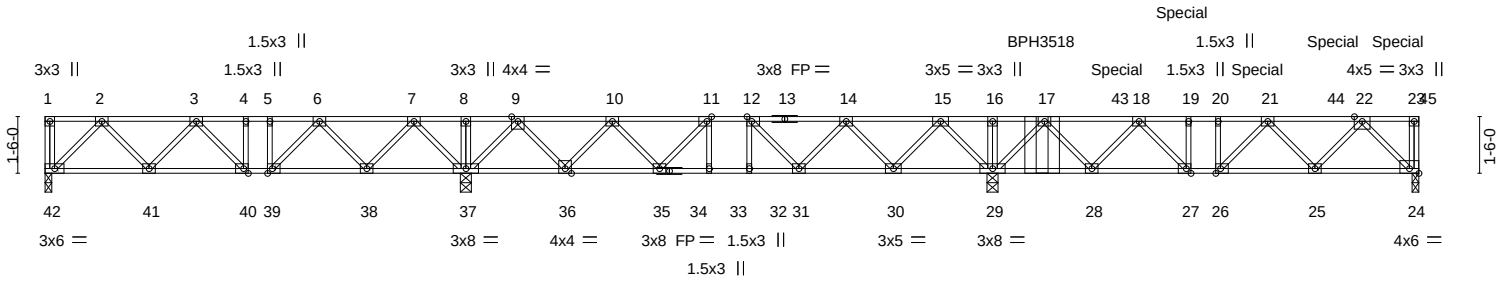
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F4GR	Floor Girder	1	1	I49821949
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:49 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-OSeVOjm3mSRbVY21K5vOB5LbWQjM5clr9khnq7ztN5S

1-3-0 0-6-2 0-11-4 0-7-14

Scale = 1:61.0



11-1-10 25-0-14 36-4-4
11-1-10 13-11-4 11-3-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [24:Edge,0-1-8], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.07	31-32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.09	31-32	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 13-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 1-42,23-24: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-1092(LC 28)
Max Grav All reactions 250 lb or less at joint(s) except 42=610(LC 5), 24=379(LC 5), 37=1941(LC 25), 29=1711(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-814/0, 3-4=-1004/58, 4-5=-1004/58, 5-6=-1004/58, 6-7=-364/539, 7-8=0/1528, 8-9=0/1528, 9-10=-330/280, 10-11=-1218/0, 11-12=-1539/0, 12-14=-1454/0, 14-15=-892/173, 15-16=-140/1274, 16-17=-140/1274, 17-18=-254/1240, 18-19=-662/1844, 19-20=-662/1844, 20-21=-662/1844, 21-22=-524/1341
BOT CHORD 41-42=0/554, 40-41=0/1041, 39-40=-58/1004, 38-39=-276/792, 37-38=-814/0, 36-37=-581/0, 35-36=-76/918, 33-35=0/1539, 32-33=0/1539, 31-32=0/1539, 30-31=0/1328, 29-30=-435/442, 28-29=-786/0, 27-28=-1711/521, 26-27=-1844/662, 25-26=-1797/665, 24-25=-919/349
WEBS 2-42=-784/0, 2-41=0/387, 3-41=-337/39, 3-40=-320/0, 7-37=-1182/0, 7-38=0/772, 6-38=-760/0, 6-39=0/540, 5-39=-257/0, 9-37=-1351/0, 9-36=0/956, 10-36=-921/0, 10-35=0/500, 11-35=-542/0, 15-29=-1196/0, 15-30=0/818, 14-30=-787/0, 14-31=-22/346, 12-31=-332/97, 17-29=-994/695, 17-28=-681/519, 18-28=-505/708, 18-27=-268/389, 22-24=-494/1300, 22-25=-627/260, 21-25=-210/679

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1092 lb uplift at joint 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) Use USP BPH3518 (With 10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 26-4-10 from the left end to connect truss(es) to back face of top chord.
10) Fill all nail holes where hanger is in contact with lumber.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
					I49821949
PRYOR-F3B	F4GR	Floor Girder	1	1	Job Reference (optional)

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb up at 28-4-10, 503 lb up at 30-1-4, 503 lb up at 32-1-4, and 503 lb up at 34-1-4, and 472 lb up at 35-9-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 24-42=-10, 1-23=-120
   Concentrated Loads (lb)
   Vert: 17=-80(B) 19=95(B) 21=95(B) 43=95(B) 44=95(B) 45=59(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F5	Floor	5	1	I49821950
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:51 2022 Page 1
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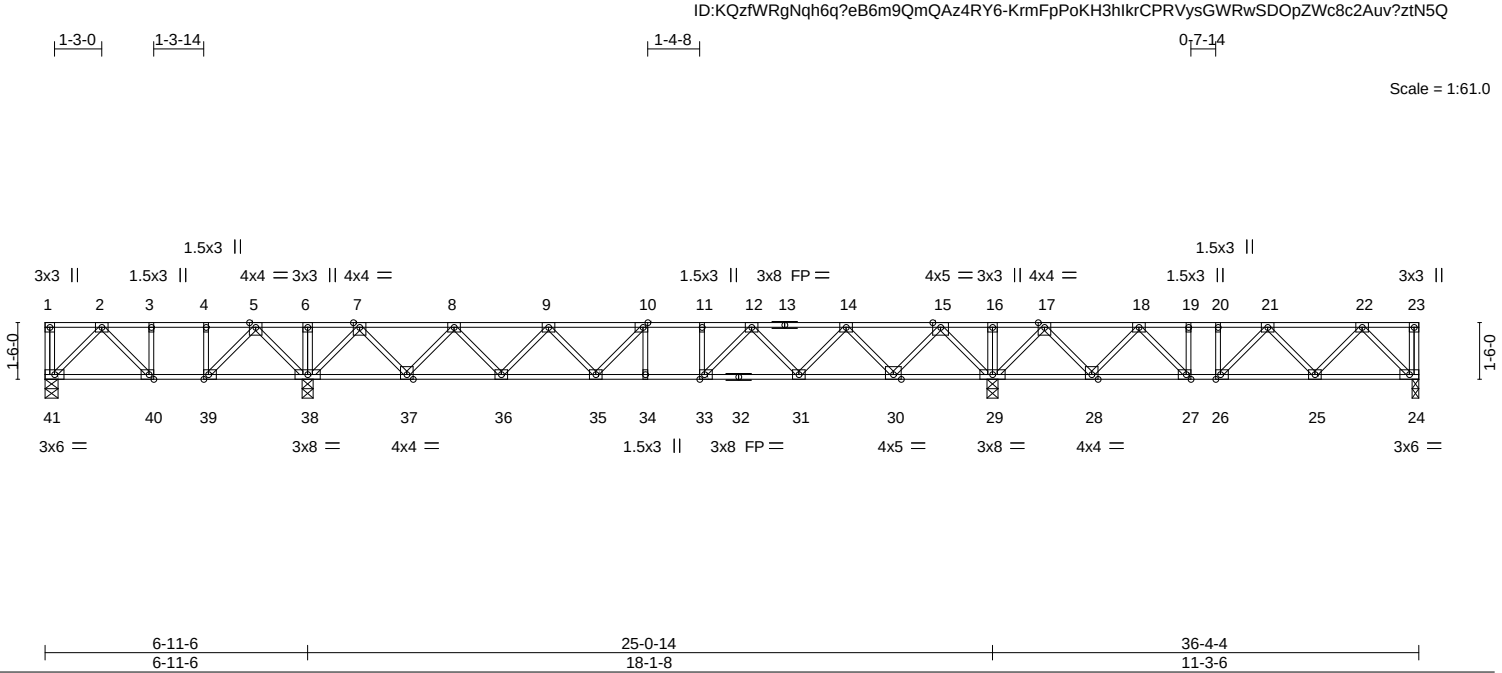

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>965	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 24=0-2-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=338(LC 5), 24=590(LC 5), 38=1865(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/447, 3-4=-280/447, 4-5=-280/447, 5-6=0/1395, 6-7=0/1395, 7-8=-550/0, 8-9=-1671/0, 9-10=-2227/0, 10-11=-2274/0, 11-12=-2274/0, 12-14=-1445/0, 14-15=-169/275, 15-16=0/2080, 16-17=0/2080, 17-18=-189/984, 18-19=-918/334, 19-20=-918/334, 20-21=-918/334, 21-22=-779/13
BOT CHORD 40-41=-136/257, 39-40=-447/280, 38-39=-913/0, 37-38=-347/0, 36-37=0/1238, 35-36=0/2103, 34-35=0/2274, 33-34=0/2274, 31-33=0/1939, 30-31=0/956, 29-30=-915/0, 28-29=-1322/0, 27-28=-650/654, 26-27=-334/918, 25-26=-104/985, 24-25=0/535
WEBS 2-41=-363/193, 2-40=-450/34, 5-38=-886/0, 5-39=0/846, 4-39=-448/0, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-780/0, 12-33=0/674, 11-33=-287/0, 7-38=-1512/0, 7-37=0/1122, 8-37=-1072/0, 8-36=0/666, 9-36=-646/0, 17-29=-1285/0, 17-28=0/868, 18-28=-869/0, 18-27=0/694, 19-27=-333/0, 22-24=-757/0, 22-25=-68/363, 21-25=-307/135, 21-26=-445/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F6	Floor	3	1	I49821951
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:05 2022 Page 1
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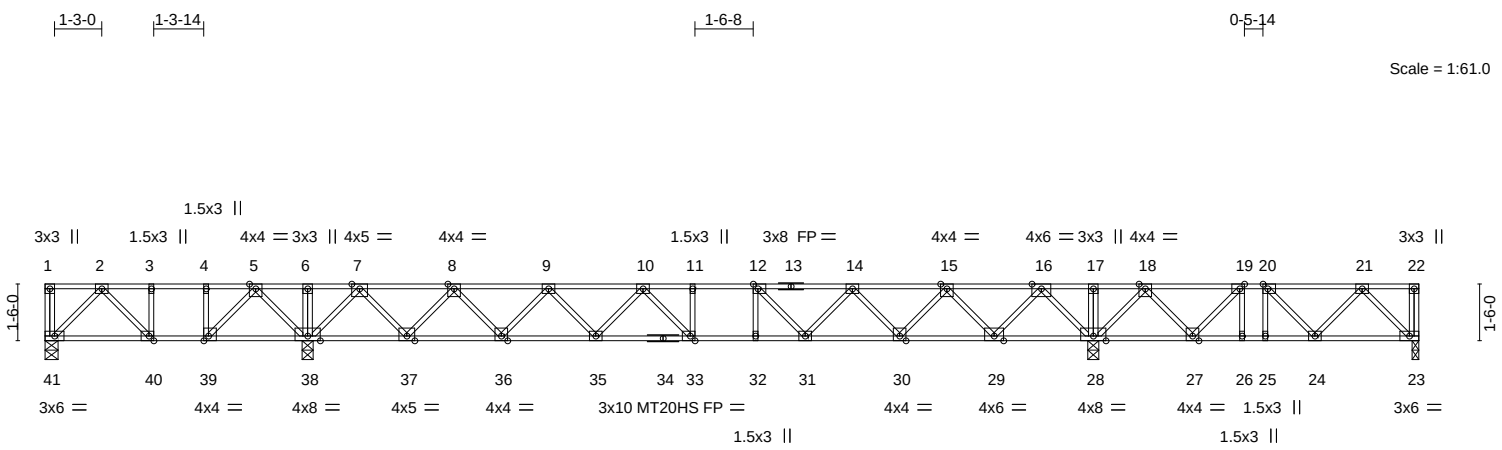

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

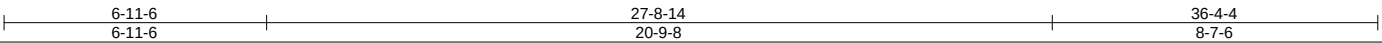

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.20	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.32	33-35	>777	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 13-22: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 23=0-2-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-183(LC 6), 23=-206(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=299(LC 5), 23=364(LC 5), 38=2107(LC 3), 28=2414(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-184/664, 3-4=-184/664, 4-5=-184/664, 5-6=0/1839, 6-7=0/1839, 7-8=-424/0, 8-9=-1834/0, 9-10=-2666/0, 10-11=-2879/0, 11-12=-2879/0, 12-14=-2437/0, 14-15=-1393/0, 15-16=0/364, 16-17=0/2691, 17-18=0/2691, 18-19=0/1511, 19-20=-305/951, 20-21=-340/526
BOT CHORD 39-40=-664/184, 38-39=-1263/0, 37-38=-626/0, 36-37=0/1270, 35-36=0/2386, 33-35=0/2910, 32-33=0/2879, 31-32=0/2879, 30-31=0/2043, 29-30=0/714, 28-29=-1358/0, 27-28=-1988/0, 26-27=-951/305, 25-26=-951/305, 24-25=-951/305, 23-24=-215/318
WEBS 2-41=-309/315, 2-40=-639/0, 3-40=-8/321, 5-38=-1003/0, 5-39=0/1039, 4-39=-555/0, 7-38=-1725/0, 7-37=0/1337, 8-37=-1283/0, 8-36=0/863, 9-36=-844/0, 9-35=0/438, 10-35=-369/0, 10-33=-280/278, 16-28=-1886/0, 16-29=0/1477, 15-29=-1456/0, 15-30=0/1030, 14-30=-984/0, 14-31=0/616, 12-31=-752/0, 18-28=-1267/0, 18-27=0/910, 19-27=-1023/0, 19-26=0/459, 21-23=-450/304, 21-24=-463/33, 20-24=0/616, 20-25=-446/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 41 and 206 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F7	Floor	3	1	I49821952
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-L6HgOD?_HHquHT?gxalsS5ey14FM2HYeWBnI?WztN59

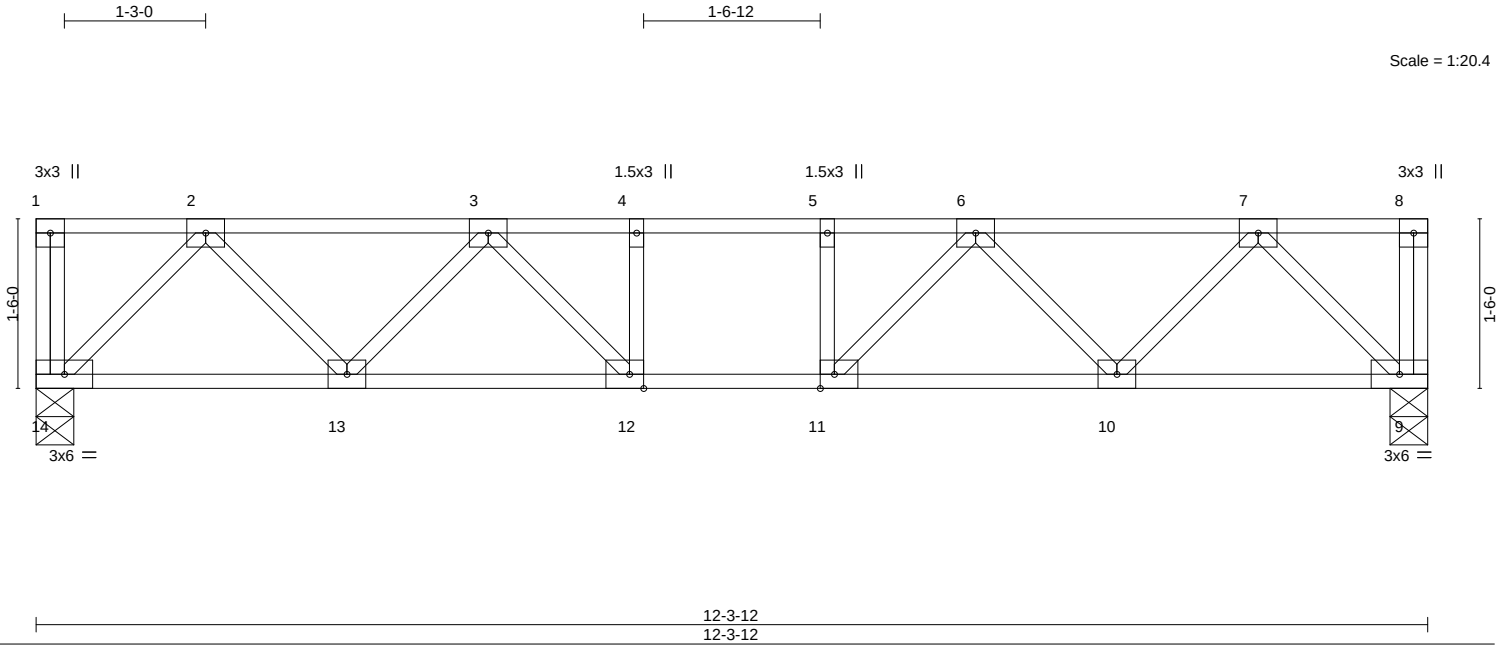

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=784(LC 1), 9=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1142/0, 3-4=-1697/0, 4-5=-1697/0, 5-6=-1697/0, 6-7=-1142/0
BOT CHORD 13-14=0/728, 12-13=0/1529, 11-12=0/1697, 10-11=0/1529, 9-10=0/728
WEBS 2-14=-1030/0, 2-13=0/615, 3-13=-575/0, 3-12=0/407, 7-9=-1030/0, 7-10=0/615, 6-10=-575/0, 6-11=0/407

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F8	Floor	13	1	I49821953
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:09 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-pIr3bZ0c2bylvcatVHG5?JA7KUcvnktnlrXrYyztN58

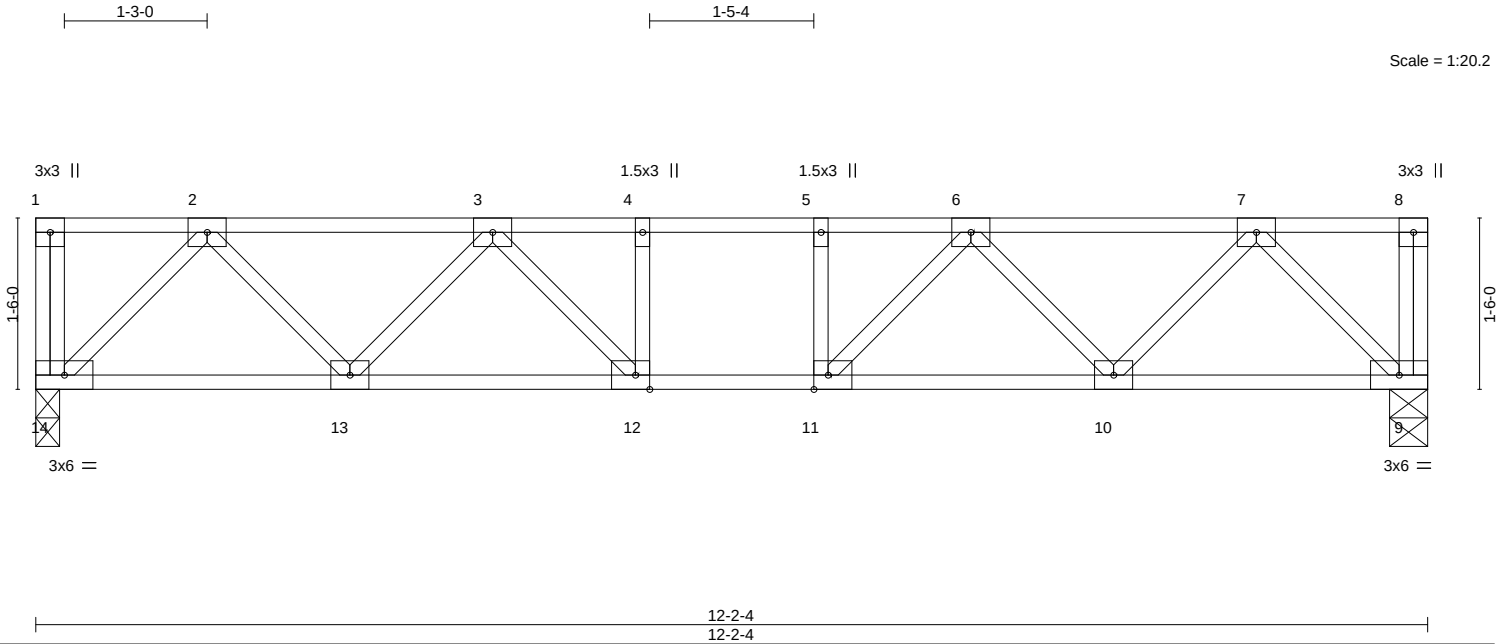

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-8, 9=0-4-0
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F9	Floor	2	1	I49821954
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:10 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-HVPRov0Epv4cWm933?nKXWjERuszWBxx_VGP4PztN57

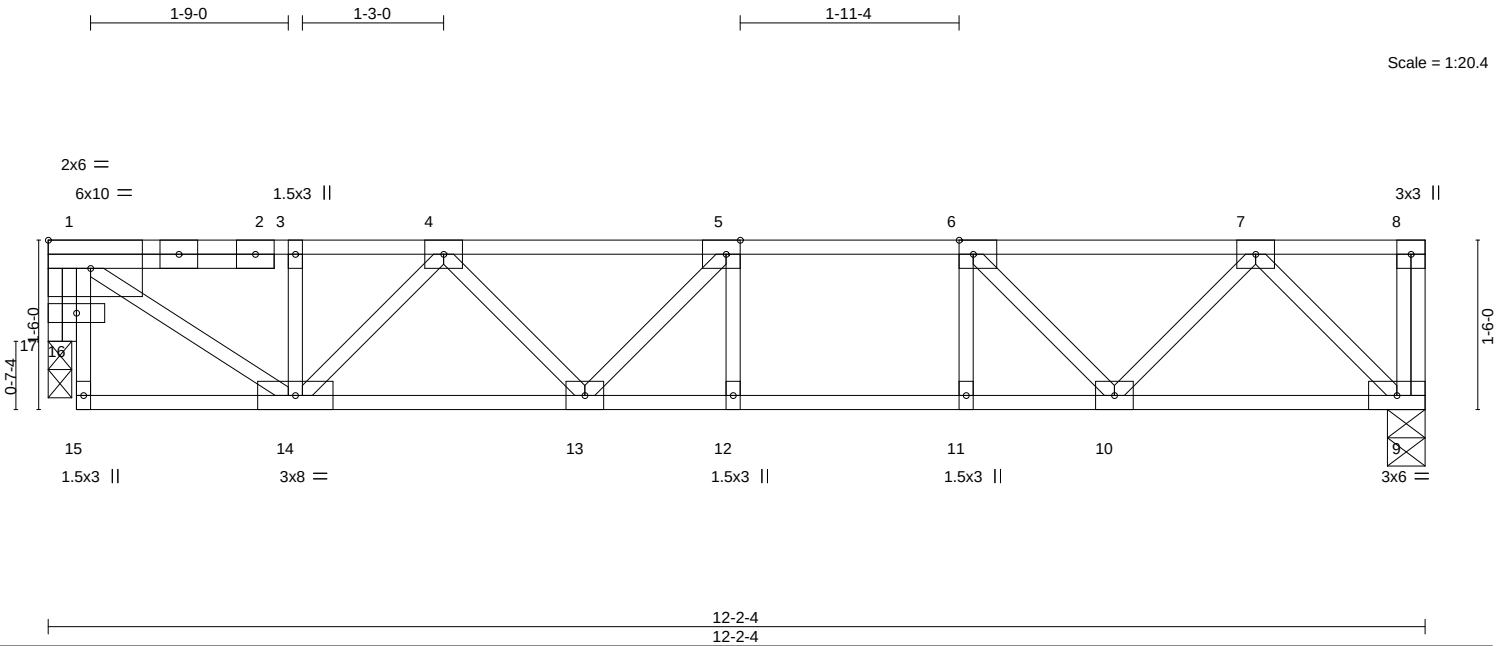

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.17	12-13	>847	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 71 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-14: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 17=0-2-8
Max Grav 9=774(LC 1), 17=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-955/0, 3-4=-951/0, 4-5=-1556/0, 5-6=-1618/0, 6-7=-1124/0
BOT CHORD	13-14=0/1406, 12-13=0/1618, 11-12=0/1618, 10-11=0/1618, 9-10=0/702
WEBS	1-14=0/1048, 4-14=-658/0, 4-13=0/277, 5-13=-260/51, 7-9=-993/0, 7-10=0/627, 6-10=-723/0, 1-17=-775/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F10	Floor	3	1	I49821955
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5I7ZDu3hQd7pYdctxvtoqsym12wpWQSIpjdjoUztN6M

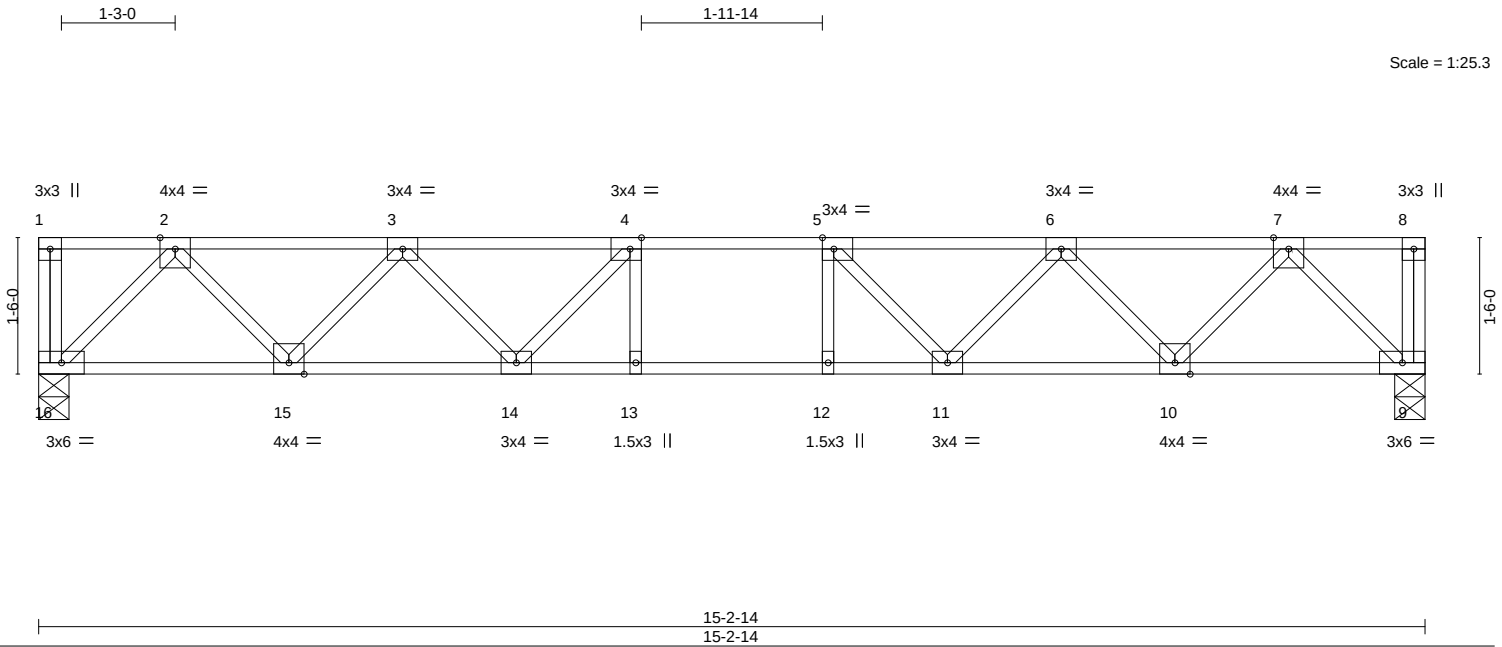

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.18	13-14	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 83 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-4-0, 9=0-4-0
Max Grav 16=974(LC 1), 9=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1509/0, 3-4=-2358/0, 4-5=-2635/0, 5-6=-2358/0, 6-7=-1509/0
BOT CHORD 15-16=0/913, 14-15=0/2079, 13-14=0/2635, 12-13=0/2635, 11-12=0/2635, 10-11=0/2079, 9-10=0/913
WEBS 2-16=-1291/0, 2-15=0/887, 3-15=-847/0, 3-14=0/463, 4-14=-561/0, 7-9=-1291/0, 7-10=0/887, 6-10=-847/0, 6-11=0/463, 5-11=-561/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F11	Floor	6	1	I49821956
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:52 2022 Page 1
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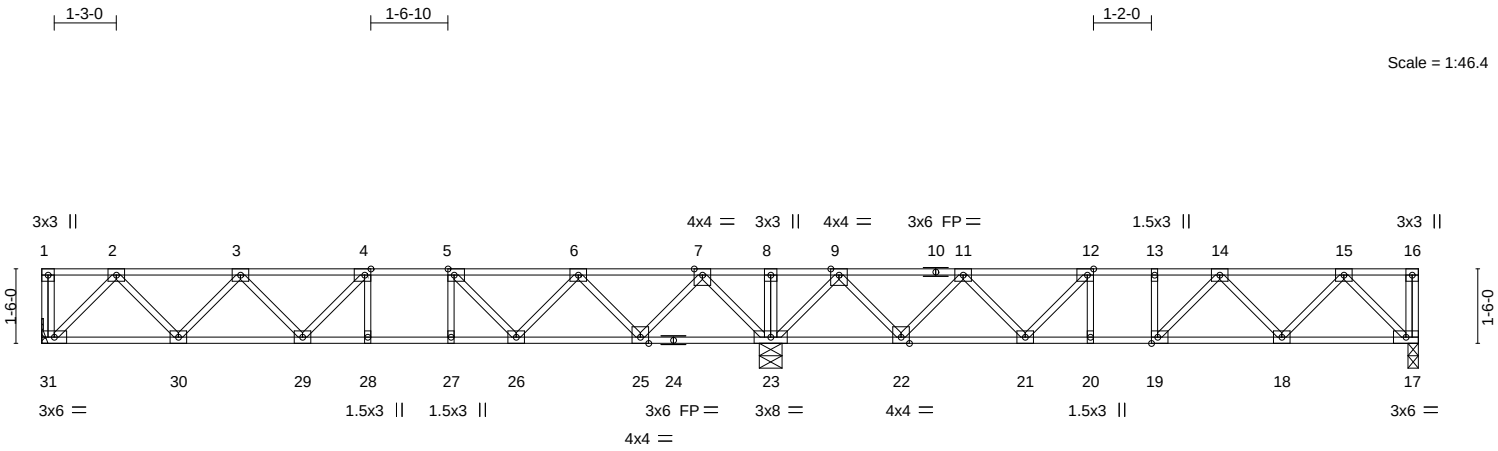

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.10	28-29	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.15	28-29	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 151 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-24: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 31=832(LC 3), 17=718(LC 4), 23=2126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1240/0, 3-4=-1827/0, 4-5=-1896/0, 5-6=-1476/0, 6-7=-470/369, 7-8=0/1680, 8-9=0/1680, 9-11=-346/472, 11-12=-1173/3, 12-13=-1434/0, 13-14=-1434/0, 14-15=-1018/0
BOT CHORD 30-31=0/767, 29-30=0/1692, 28-29=0/1896, 27-28=0/1896, 26-27=0/1896, 25-26=-77/1111, 23-25=-766/0, 22-23=-783/0, 21-22=-195/906, 20-21=0/1434, 19-20=0/1434, 18-19=0/1347, 17-18=0/662
WEBS 2-31=-1085/0, 2-30=0/702, 3-30=-671/0, 4-28=-260/0, 7-23=-1458/0, 7-25=0/1053, 6-25=-1010/0, 6-26=0/612, 5-26=-756/0, 5-27=0/285, 9-23=-1334/0, 9-22=0/942, 11-22=-909/0, 11-21=0/491, 12-21=-560/0, 15-17=-936/0, 15-18=0/529, 14-18=-489/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F12	Floor	1	1	I49821957
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Vtpisw5ZjYVOP5LSc1QVSVZDRFxCjm?lVgsNPpztN6J

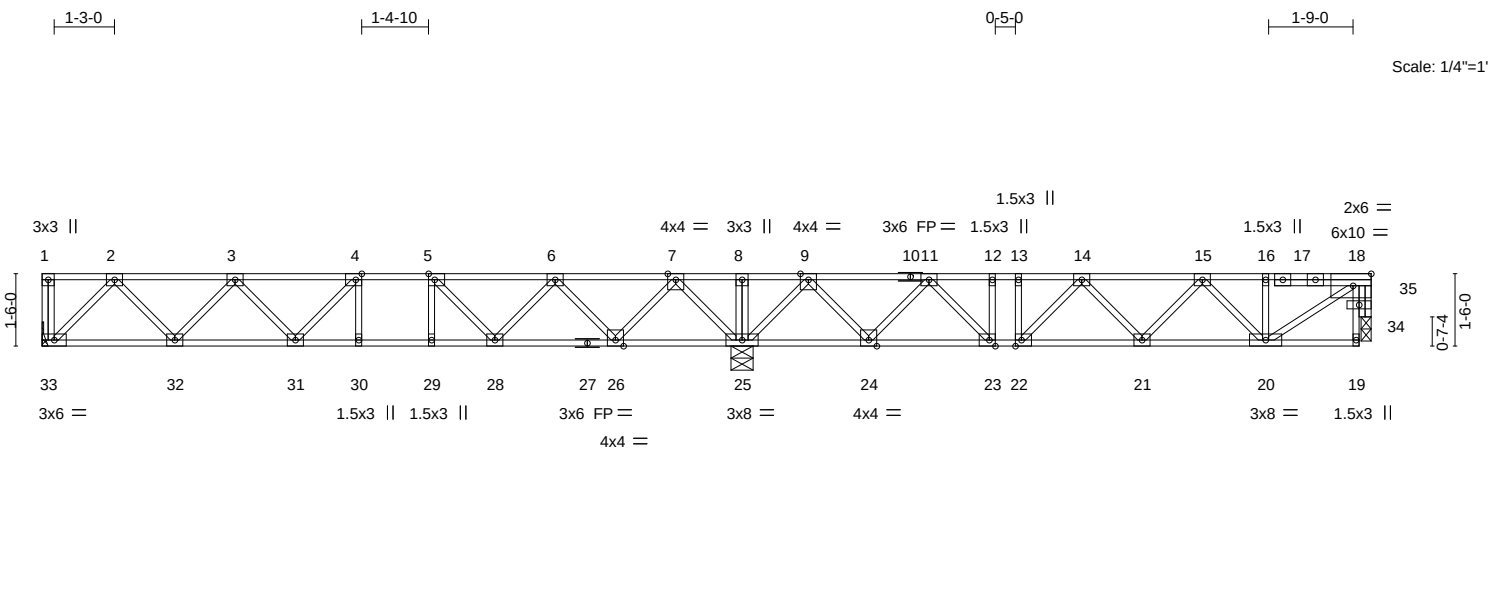

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [18:0-4-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.13	30-31	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	35	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-27: 2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 18-20: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 33=Mechanical, 25=0-5-8, 35=0-2-8
Max Grav 33=812(LC 3), 25=2125(LC 1), 35=697(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1202/0, 3-4=-1752/0, 4-5=-1802/0, 5-6=-1387/0, 6-7=-383/363, 7-8=0/1718, 8-9=0/1718, 9-11=-344/545, 11-12=-1266/2, 12-13=-1266/2, 13-14=-1266/2, 14-15=-1379/0, 15-16=-874/0, 16-18=-878/0
BOT CHORD	32-33=0/747, 31-32=0/1635, 30-31=0/1802, 29-30=0/1802, 28-29=0/1802, 26-28=-74/1024, 25-26=-782/0, 24-25=-885/0, 23-24=-252/900, 22-23=-2/1266, 21-22=0/1468, 20-21=0/1251
WEBS	2-33=-1057/0, 2-32=0/675, 3-32=-644/0, 4-30=-258/0, 7-25=-1451/0, 7-26=0/1046, 6-26=-1006/0, 6-28=0/604, 5-28=-731/0, 5-29=0/282, 9-25=-1342/0, 9-24=0/923, 11-24=-919/0, 11-23=0/704, 12-23=-329/0, 18-20=0/963, 15-20=-545/0, 14-22=-503/0, 18-35=-717/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 35 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F13	Floor	1	1	I49821958
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:56 2022 Page 1
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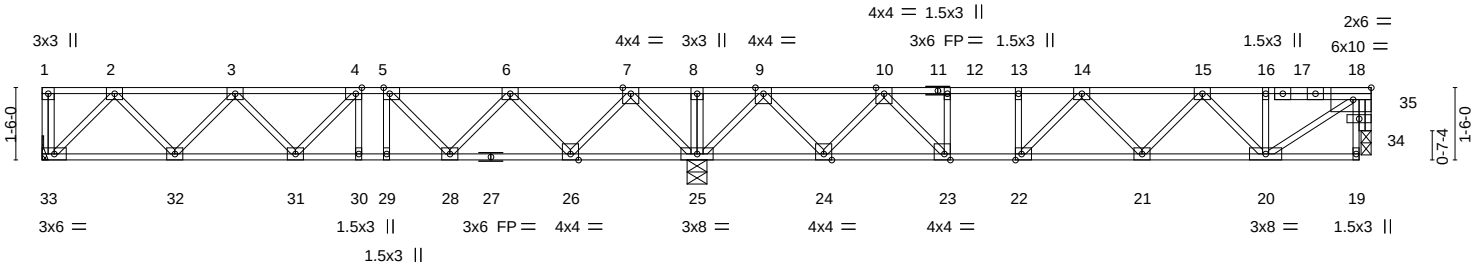
1-3-0 0-5-7 1-4-3 1-9-0

Scale: 1/4"=1'



13-6-15 27-6-10
13-6-15 13-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [18:0-4-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.11	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.18	21-22	>931	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	35	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
18-20: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 33=Mechanical, 25=0-4-15, 35=0-2-8
Max Grav 33=759(LC 3), 25=2090(LC 1), 35=774(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/0, 3-4=-1555/0, 4-5=-1597/0, 5-6=-1288/0, 6-7=-406/329, 7-8=0/1546, 8-9=0/1546, 9-10=-497/403, 10-12=-1598/0, 12-13=-1598/0, 13-14=-1598/0, 14-15=-1647/0, 15-16=-986/0, 16-18=-990/0
BOT CHORD 32-33=0/696, 31-32=0/1478, 30-31=0/1597, 29-30=0/1597, 28-29=0/1597, 26-28=-56/991, 25-26=-664/0, 24-25=-698/0, 23-24=-101/1108, 22-23=0/1598, 21-22=0/1788, 20-21=0/1439
WEBS 2-33=-985/0, 2-32=0/599, 3-32=-563/0, 7-25=-1352/0, 7-26=0/957, 6-26=-929/0, 6-28=0/505, 5-28=-560/0, 9-25=-1381/0, 9-24=0/944, 10-24=-989/0, 10-23=0/883, 12-23=-425/0, 18-20=0/1089, 15-20=-656/0, 15-21=0/309, 14-22=-484/0, 18-35=-796/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Bearing at joint(s) 35 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F14	Floor	1	1	I49821959
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:58 2022 Page 1
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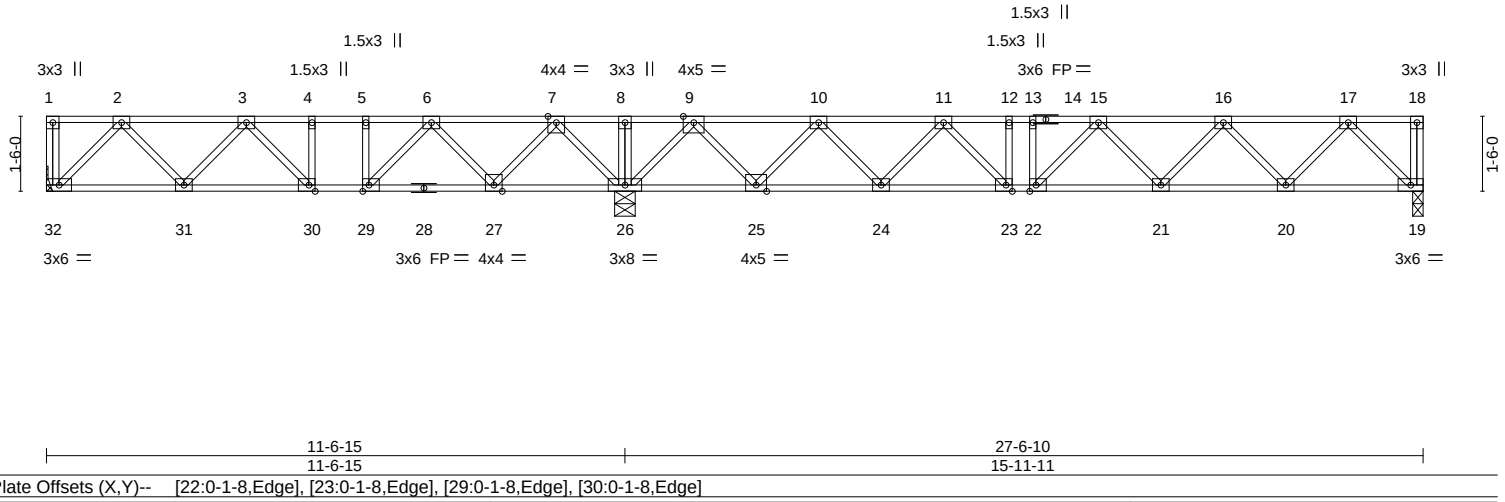

11-6-15 27-6-10
11-6-15 15-11-11

Plate Offsets (X,Y)-- [22:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.10	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.15	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 153 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 32=Mechanical, 19=0-2-8, 26=0-4-15
Max Grav 32=612(LC 3), 19=887(LC 4), 26=2186(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-822/0, 3-4=-989/232, 4-5=-989/232, 5-6=-989/232, 6-7=-212/870, 7-8=0/1964, 8-9=0/1964, 9-10=-237/297, 10-11=-1450/0, 11-12=-2137/0, 12-13=-2137/0, 13-15=-2137/0, 15-16=-2039/0, 16-17=-1341/0
BOT CHORD 31-32=0/557, 30-31=-18/1046, 29-30=-232/989, 27-29=-547/694, 26-27=-1191/0, 25-26=-842/0, 24-25=0/989, 23-24=0/1893, 22-23=0/2137, 21-22=0/2214, 20-21=0/1833, 19-20=0/825
WEBS 2-32=-788/0, 2-31=-24/394, 3-31=-332/97, 3-30=-411/0, 7-26=-1283/0, 7-27=0/861, 6-27=-872/0, 6-29=0/722, 5-29=-355/0, 9-26=-1588/0, 9-25=0/1188, 10-25=-1158/0, 10-24=0/723, 11-24=-700/0, 11-23=0/532, 17-19=-1167/0, 17-20=0/767, 16-20=-731/0, 16-21=0/305, 15-21=-261/0, 15-22=-331/92

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F15	Floor	1	1	I49821960
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:07:59 2022 Page 1
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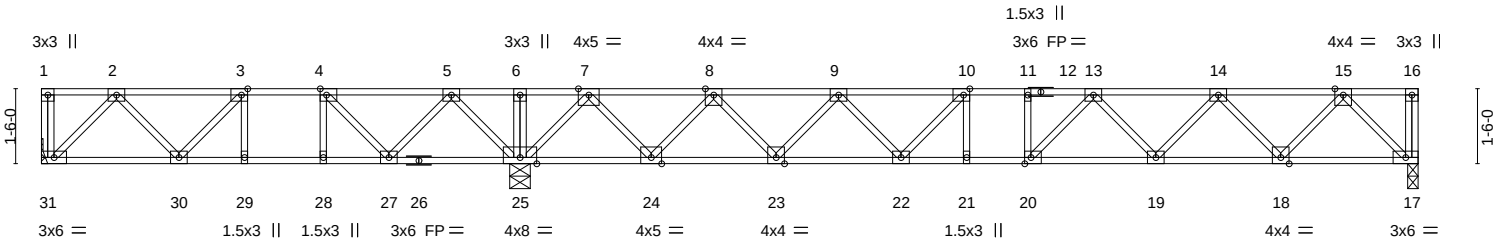

9-6-15 27-6-10
9-6-15 17-11-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.16	21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.25	20-21	>869	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 17=0-2-8, 25=0-4-15
Max Uplift 31=-14(LC 4)
Max Grav 31=490(LC 3), 17=1035(LC 7), 25=2190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-575/164, 3-4=-631/453, 4-5=-197/923, 5-6=0/1962, 6-7=0/1962, 7-8=-469/13, 8-9=-1898/0, 9-10=-2717/0, 10-11=-2981/0, 11-13=-2981/0, 13-14=-2585/0, 14-15=-1623/0
BOT CHORD 30-31=-13/450, 29-30=-453/631, 28-29=-453/631, 27-28=-453/631, 25-27=-1282/0, 24-25=-733/0, 23-24=0/1323, 22-23=0/2448, 21-22=0/2981, 20-21=0/2981, 19-20=0/2899, 18-19=0/2248, 17-18=0/973
WEBS 2-31=-636/18, 3-30=-80/418, 3-29=-316/0, 5-25=-1100/0, 5-27=0/784, 4-27=-951/0, 4-28=0/341, 7-25=-1738/0, 7-24=0/1332, 8-24=-1307/0, 8-23=0/891, 9-23=-853/0, 9-22=0/490, 10-22=-558/0, 15-17=-1376/0, 15-18=0/967, 14-18=-929/0, 14-19=0/501, 13-19=-466/0, 13-20=-180/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 31.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F16	Floor	1	1	I49821961
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:00 2022 Page 1
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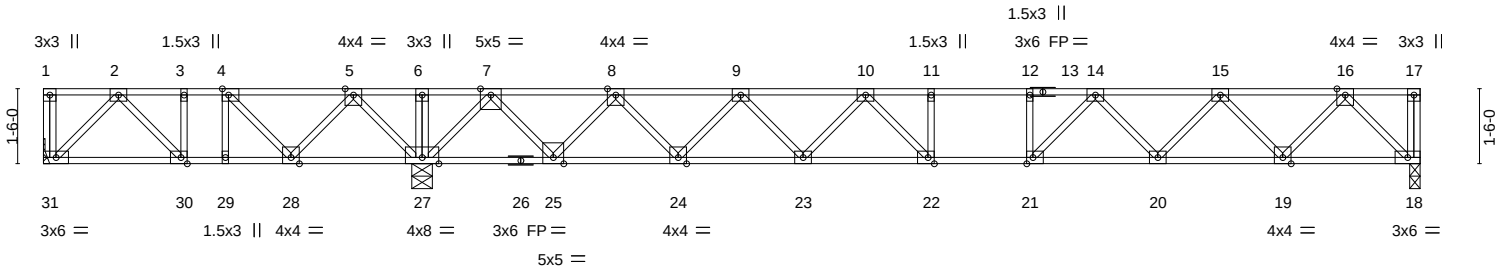
Scale = 1:46.1



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-6-15 27-6-10
7-6-15 19-11-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.19	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.31	21	>763	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
18-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=Mechanical, 18=0-2-8, 27=0-4-15
Max Uplift 31=-309(LC 4)
Max Grav 31=258(LC 3), 18=1104(LC 4), 27=2493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-141/860, 3-4=-141/860, 4-5=0/1508, 5-6=0/2808, 6-7=0/2808, 7-8=0/407, 8-9=-1556/0, 9-10=-2719/0, 10-11=-3377/0, 11-12=-3377/0, 12-14=-3377/0, 14-15=-2845/0, 15-16=-1756/0
BOT CHORD 30-31=-346/182, 29-30=-860/141, 28-29=-860/141, 27-28=-2046/0, 25-27=-1408/0, 24-25=0/809, 23-24=0/2278, 22-23=0/3142, 21-22=0/3377, 20-21=0/3217, 19-20=0/2446, 18-19=0/1042
WEBS 2-31=-257/489, 2-30=-745/0, 3-30=0/330, 5-27=-1277/0, 5-28=0/944, 4-28=-1066/0, 4-29=0/338, 7-27=-1980/0, 7-25=0/1565, 8-25=-1541/0, 8-24=0/1126, 9-24=-1088/0, 9-23=0/668, 10-23=-646/0, 10-22=0/624, 11-22=-325/0, 16-18=-1474/0, 16-19=0/1061, 15-19=-1025/0, 15-20=0/594, 14-20=-552/0, 14-21=-90/480, 12-21=-261/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 31.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F17	Floor	3	1	I49821962
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:01 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-oDkLKJBy3iOPlANoW?28EzMOt4HRsuyn6G2F9vztN6C

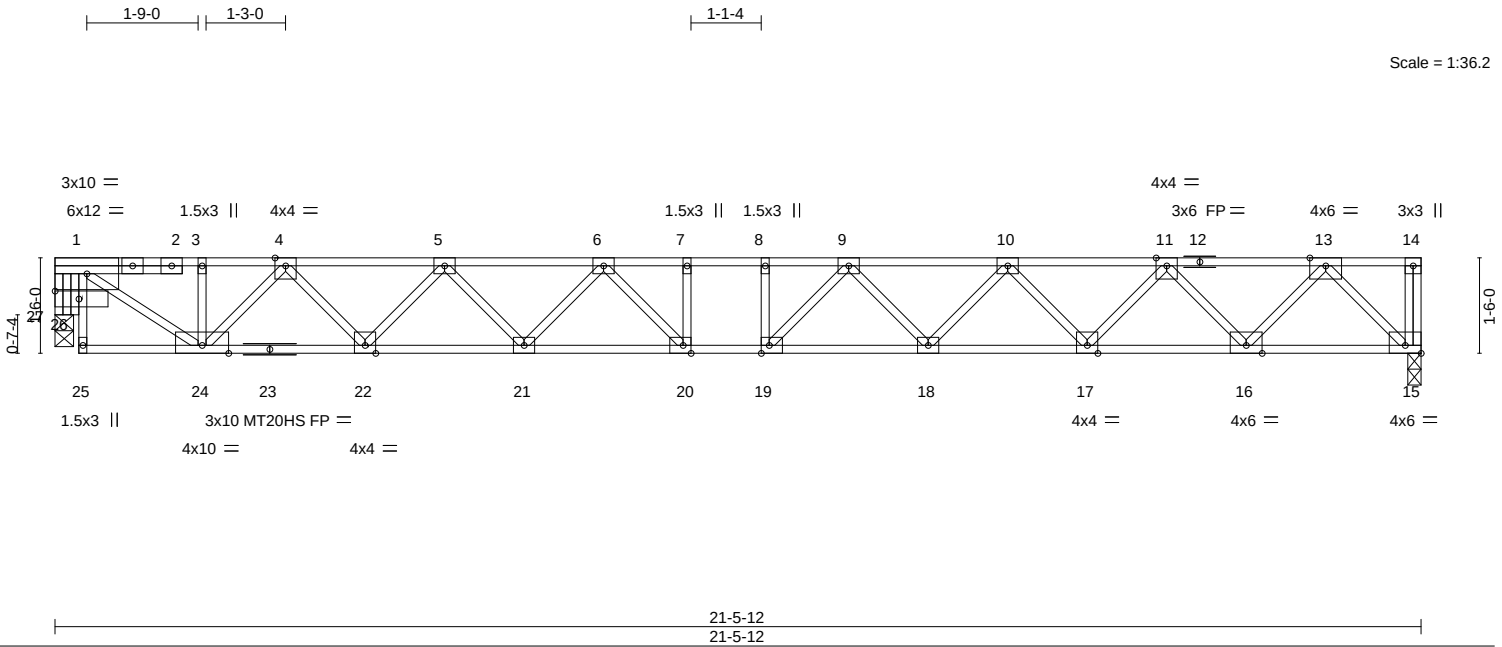

Plate Offsets (X,Y)-- [15:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge], [26:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.36	19	>700	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.59	19	>431	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
15-23: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-25,1-24: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 15=0-2-8, 27=0-3-8
Max Grav 15=1373(LC 1), 27=1346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1883/0, 3-4=-1880/0, 4-5=-3585/0, 5-6=-4683/0, 6-7=-5246/0, 7-8=-5246/0, 8-9=-5246/0, 9-10=-4831/0, 10-11=-3846/0, 11-13=-2267/0
BOT CHORD 22-24=0/2866, 21-22=0/4280, 20-21=0/5068, 19-20=0/5246, 18-19=0/5155, 17-18=0/4477, 16-17=0/3196, 15-16=0/1312
WEBS 1-24=0/2071, 13-15=-1855/0, 13-16=0/1420, 11-16=-1381/0, 11-17=0/967, 10-17=-938/0, 10-18=0/525, 9-18=-502/0, 9-19=-224/485, 4-24=-1429/0, 4-22=0/1069, 5-22=-1034/0, 5-21=0/599, 6-21=-571/0, 6-20=-133/575, 7-20=-281/21, 1-27=-1397/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F18	Floor	1	1	I49821963
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-kcs6k?CDbJe6_TXBeQ5cKORkAt_?Kla4aaXMDnztN6A

1-3-0 1-1-8 0-8-8

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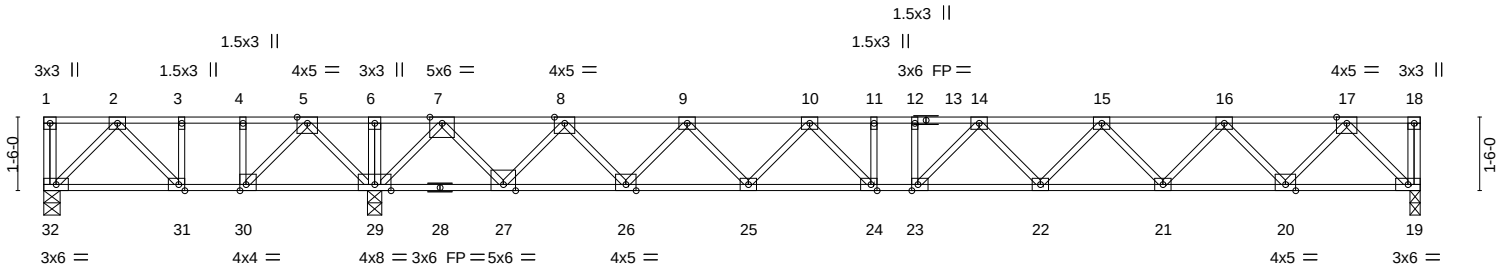

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-9-0 28-1-0
6-9-0 21-4-0

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	22-23	>977	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.42	22-23	>603	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-28: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-4 oc bracing.

REACTIONS. (size) 32=0-4-0, 19=0-2-8, 29=0-3-8
Max Uplift 32=-363(LC 4)
Max Grav 32=213(LC 3), 19=1216(LC 7), 29=2517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1070, 3-4=0/1070, 4-5=0/1070, 5-6=0/2630, 6-7=0/2630, 8-9=-1976/0, 9-10=-3254/0, 10-11=-4051/0, 11-12=-4051/0, 12-14=-4051/0, 14-15=-3969/0, 15-16=-3263/0, 16-17=-1969/0
BOT CHORD 31-32=-390/138, 30-31=-1070/0, 29-30=-1896/0, 27-29=-1170/0, 26-27=0/1174, 25-26=0/2756, 24-25=0/3740, 23-24=0/4051, 22-23=0/4147, 21-22=0/3753, 20-21=0/2755, 19-20=0/1155
WEBS 2-32=-195/552, 2-31=-984/0, 3-31=0/548, 5-29=-1208/0, 5-30=0/1356, 4-30=-764/0, 7-29=-2065/0, 7-27=0/1673, 8-27=-1624/0, 8-26=0/1206, 9-26=-1173/0, 9-25=0/753, 10-25=-737/0, 17-19=-1634/0, 17-20=0/1209, 16-20=-1169/0, 16-21=0/754, 15-21=-728/0, 15-22=0/346, 14-22=-319/0, 14-23=-402/232, 10-24=0/679, 11-24=-342/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 19.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F19	Floor	12	1	I49821964
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:04 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DoQUyLDrMdmzcd6NB8crsc_xZHIX3HHDpEHvmEztN69

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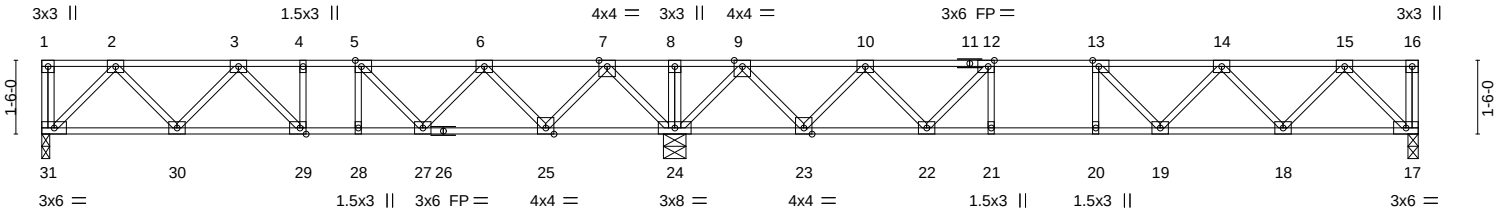

12-10-8 28-0-0
12-10-8 15-1-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.13	19-20	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.21	19-20	>876	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
17-26: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 31=0-1-15, 17=0-2-8, 24=0-5-8
Max Grav 31=716(LC 3), 17=866(LC 4), 24=2127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1013/0, 3-4=-1430/0, 4-5=-1430/0, 5-6=-1195/8, 6-7=-403/469, 7-8=0/1712, 8-9=0/1712, 9-10=-526/276, 10-12=-1580/0, 12-13=-2043/0, 13-14=-1953/0, 14-15=-1303/0
BOT CHORD 30-31=0/659, 29-30=0/1341, 28-29=0/1430, 27-28=0/1430, 25-27=-195/947, 24-25=-775/0, 23-24=-767/0, 22-23=0/1186, 21-22=0/2043, 20-21=0/2043, 19-20=0/2043, 18-19=0/1786, 17-18=0/801
WEBS 2-31=-933/0, 2-30=0/526, 3-30=-488/0, 7-24=-1325/0, 7-25=0/936, 6-25=-903/0, 6-27=0/478, 5-27=-533/0, 9-24=-1484/0, 9-23=0/1073, 10-23=-1029/0, 10-22=0/646, 12-22=-799/0, 12-21=0/283, 15-17=-1132/0, 15-18=0/747, 14-18=-718/0, 13-20=-250/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 17.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F20	Floor	4	1	I49821965
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5Zf?oiGLPsGP4EP8Qzgn1S9acuhT?15pjsF7v?ztN65

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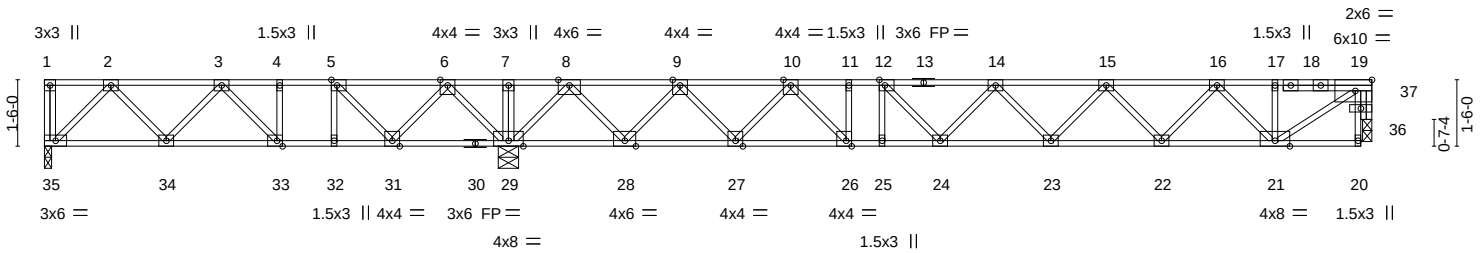

10-5-12 29-11-12
10-5-12 19-6-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [12:0-1-8,Edge], [19:0-4-8,Edge], [26:0-1-8,Edge], [33:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.19	24-25	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.30	24-25	>786	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	37	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except* 20-30: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except* 19-21: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 35=0-1-15, 29=0-5-8, 37=0-2-8
Max Uplift 35=-36(LC 4)
Max Grav 35=522(LC 3), 29=2426(LC 1), 37=1079(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-655/179, 3-4=-610/761, 4-5=-610/761, 5-6=-83/1287, 6-7=0/2422, 7-8=0/2422, 8-9=-135/286, 9-10=-1771/0, 10-11=-3010/0, 11-12=-3010/0, 12-14=-3288/0, 14-15=-3272/0, 15-16=-2650/0, 16-17=-1440/0, 17-19=-1444/0
BOT CHORD	34-35=-59/467, 33-34=-367/792, 32-33=-761/610, 31-32=-761/610, 29-31=-1712/0, 28-29=-1080/0, 27-28=0/1103, 26-27=0/2456, 25-26=0/3010, 24-25=0/3010, 23-24=0/3437, 22-23=0/3096, 21-22=0/2178
WEBS	2-35=-660/83, 2-34=-179/279, 3-34=-204/278, 3-33=-682/0, 4-33=0/268, 6-29=-1239/0, 6-31=0/948, 5-31=-1106/0, 5-32=0/327, 8-29=-1898/0, 8-28=0/1500, 9-28=-1461/0, 9-27=0/1015, 10-27=-1044/0, 10-26=0/931, 11-26=-305/0, 19-21=0/1607, 16-21=-1068/0, 16-22=0/701, 15-22=-663/0, 15-23=0/262, 14-24=-358/40, 12-24=0/577, 12-25=-419/0, 19-37=-1107/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35, 37.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 35.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

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Chesterfield, MO 63017

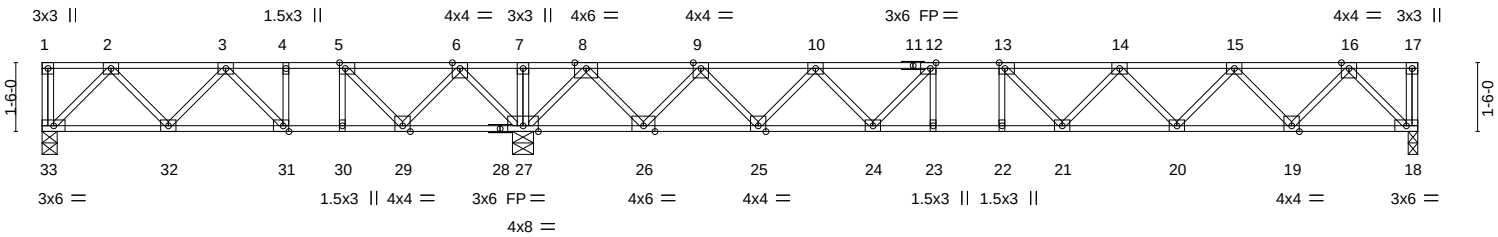
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F21	Floor	10	1	I49821966
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:09 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ZlDN?2HzA9OGiO_L_hB0ZfhlcI2vkURyyW_gRRztN64

1-3-0 1-1-4 1-4-8

Scale = 1:50.2



10-5-12 29-11-12
10-5-12 19-6-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.19	21-22	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.31	21-22	>753	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 18-28: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 33=0-3-15, 18=0-2-8, 27=0-5-8
Max Uplift 33=-29(LC 4)
Max Grav 33=526(LC 3), 18=1105(LC 4), 27=2415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-663/167, 3-4=-629/733, 4-5=-629/733, 5-6=-108/1249, 6-7=0/2359, 7-8=0/2359, 9-10=-1837/0, 10-12=-2882/0, 12-13=-3349/0, 13-14=-3345/0, 14-15=-2853/0, 15-16=-1757/0
BOT CHORD 32-33=-52/471, 31-32=-348/805, 30-31=-733/629, 29-30=-733/629, 27-29=-1667/0, 26-27=-1021/0, 25-26=0/1148, 24-25=0/2492, 23-24=0/3349, 22-23=0/3349, 21-22=0/3349, 20-21=0/3253, 19-20=0/2440, 18-19=0/1046
WEBS 2-33=-667/74, 2-32=-170/285, 3-32=-211/269, 3-31=-669/0, 4-31=0/262, 6-27=-1229/0, 6-29=0/934, 5-29=-1091/0, 5-30=0/322, 8-27=-1893/0, 8-26=0/1487, 9-26=-1468/0, 9-25=0/1045, 10-25=-994/0, 10-24=0/634, 12-24=-828/0, 12-23=-34/349, 16-18=-1479/0, 16-19=0/1057, 15-19=-1016/0, 15-20=0/614, 14-20=-594/0, 14-21=-39/262, 13-21=-268/274, 13-22=-325/58

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F22	Floor	3	1	I49821967
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:10 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-1ynlDOIcxTW7KYZXYOjF6tE3siU9T2W5BAkDztztN63

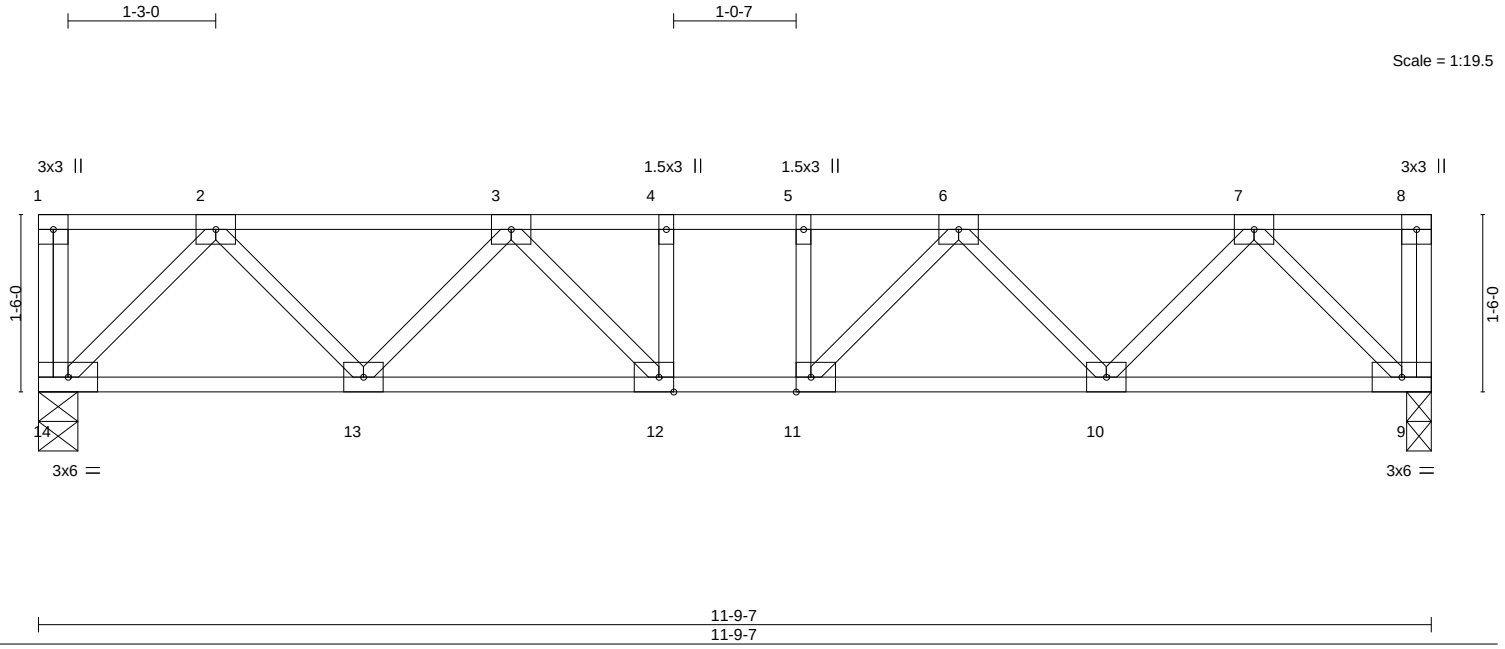

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=750(LC 1), 9=750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1077/0, 3-4=-1560/0, 4-5=-1560/0, 5-6=-1560/0, 6-7=-1077/0
BOT CHORD 13-14=0/694, 12-13=0/1434, 11-12=0/1560, 10-11=0/1434, 9-10=0/694
WEBS 2-14=-981/0, 2-13=0/571, 3-13=-530/0, 3-12=-2/330, 7-9=-981/0, 7-10=0/571, 6-10=-530/0, 6-11=-2/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F23	Floor	3	1	I49821968
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:11 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-V8L7QkJEine_xi8j66EUe4nEd6qqCVtFQqTnVKztN62

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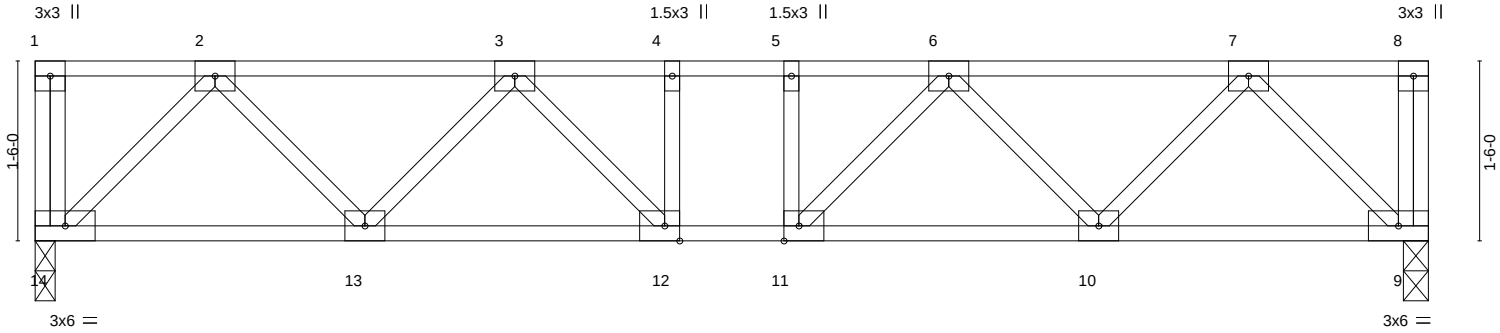

11-7-7
11-7-7

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=739(LC 1), 9=739(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1057/0, 3-4=-1517/0, 4-5=-1517/0, 5-6=-1517/0, 6-7=-1057/0
BOT CHORD 13-14=0/683, 12-13=0/1404, 11-12=0/1517, 10-11=0/1404, 9-10=0/683
WEBS 2-14=-966/0, 2-13=0/556, 3-13=-516/0, 3-12=-15/306, 7-9=-966/0, 7-10=0/556, 6-10=-516/0, 6-11=-15/306

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F24	Floor	2	1	I49821969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_KvWd4JsT4mrZsjvfpljBIJNRV7MxzqOeUDK2mztN61

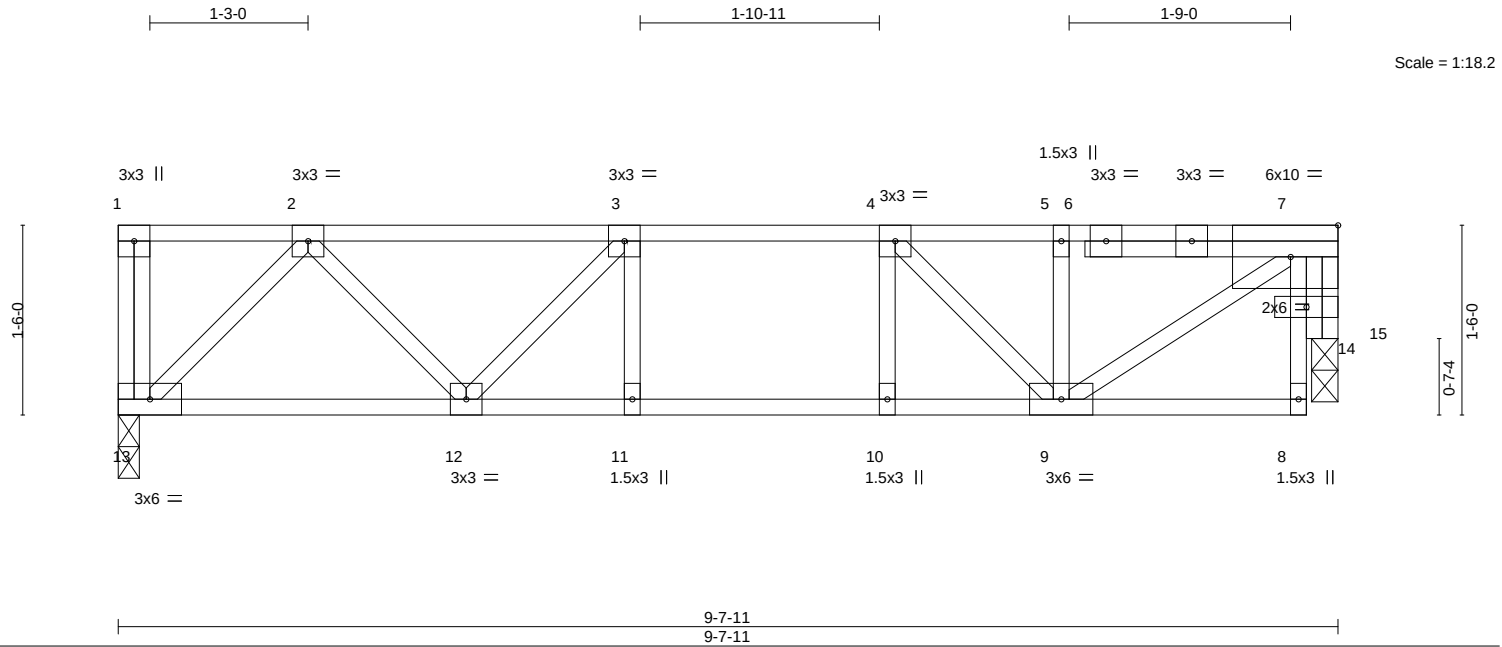

Plate Offsets (X,Y)-- [7:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.05	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 7-9: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 15=0-2-8
Max Grav 13=609(LC 1), 15=588(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-806/0, 3-4=-1017/0, 4-5=-709/0, 5-7=-713/0
BOT CHORD	12-13=0/559, 11-12=0/1017, 10-11=0/1017, 9-10=0/1017
WEBS	2-13=-791/0, 2-12=0/367, 3-12=-342/0, 7-9=0/774, 4-9=-510/0, 7-15=-606/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13, 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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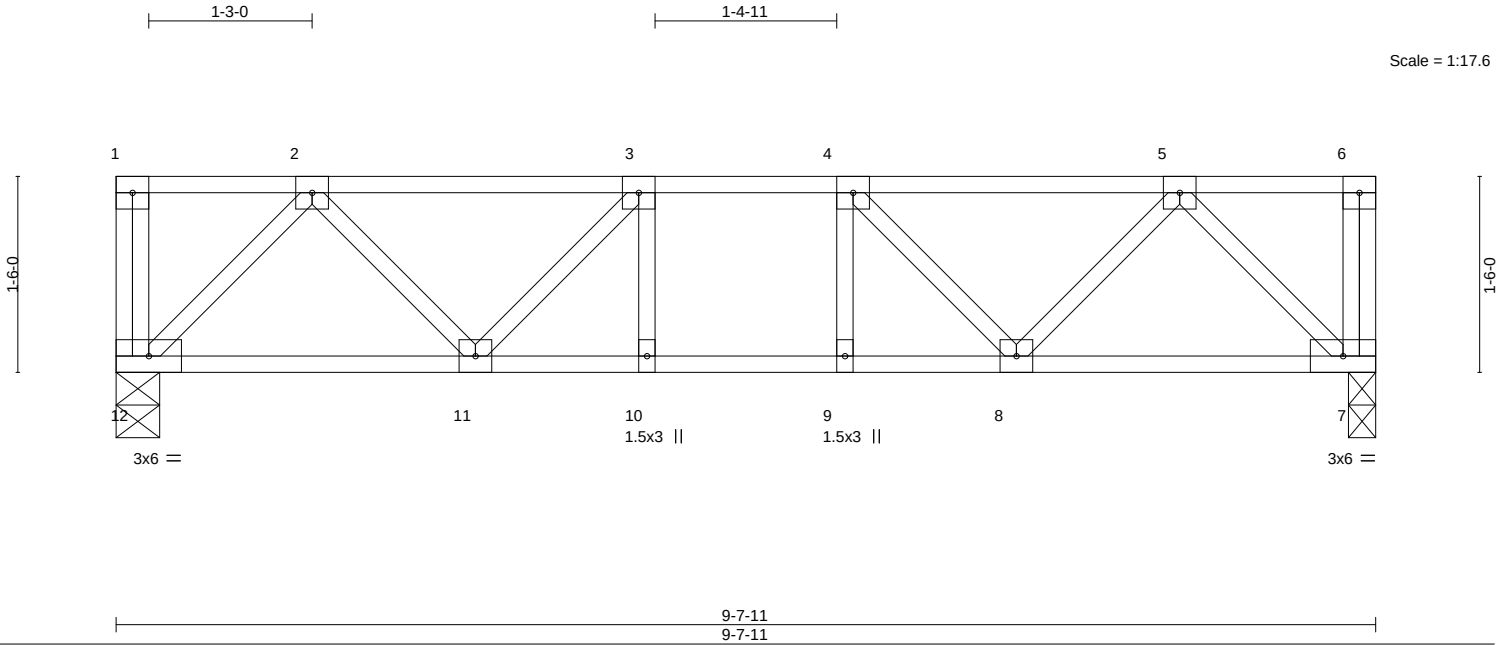
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F25	Floor	5	1	I49821970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_KvWd4JsT4mrZsjvfpljBIJOKV9Cx_HOeUDK2mztN61



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-2-8
Max Grav 12=610(LC 1), 7=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/0, 3-4=-1046/0, 4-5=-808/0
BOT CHORD 11-12=0/558, 10-11=0/1046, 9-10=0/1046, 8-9=0/1046, 7-8=0/558
WEBS 2-12=-789/0, 2-11=0/372, 3-11=-368/0, 5-7=-789/0, 5-8=0/372, 4-8=-368/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F26	Floor	3	1	I49821971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:13 2022 Page 1
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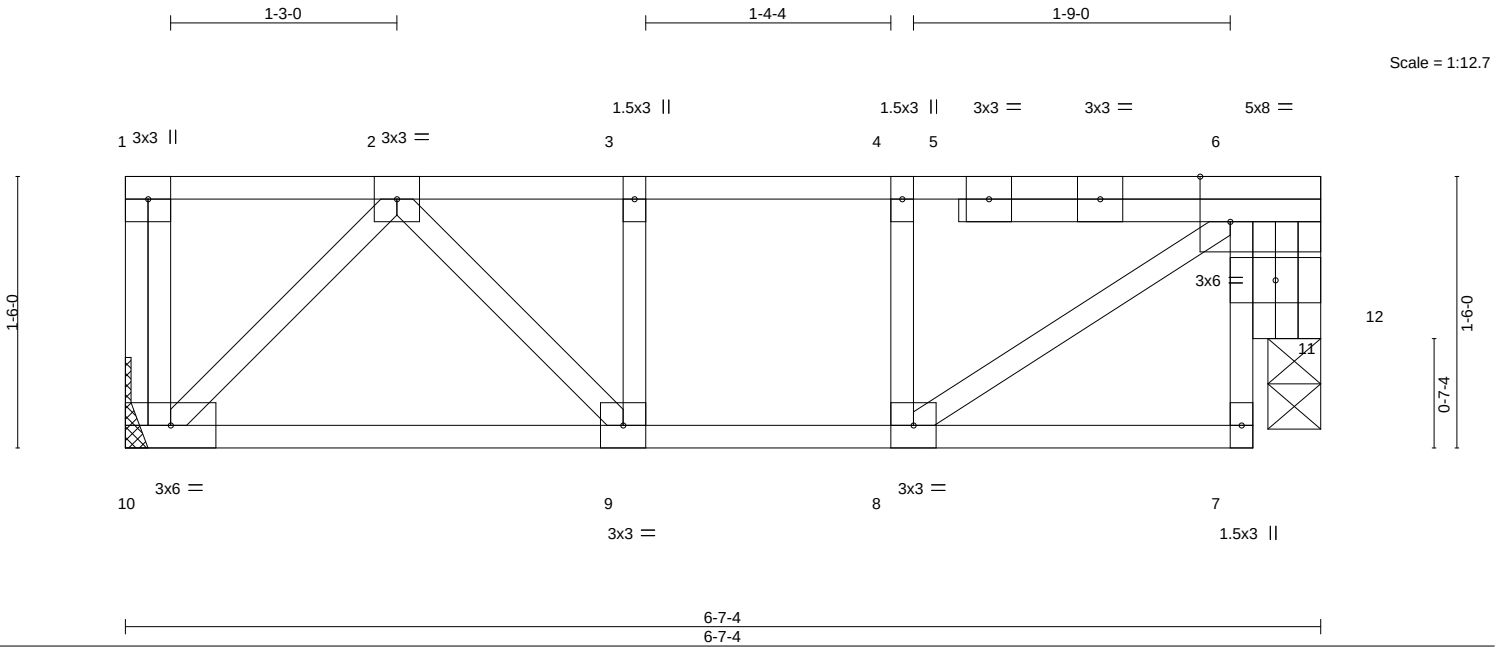

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-3-8
Max Grav 10=406(LC 1), 12=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-448/0, 3-4=-448/0, 4-6=-450/0
BOT CHORD	9-10=0/327, 8-9=0/448
WEBS	6-8=0/477, 2-10=-462/0, 6-12=-397/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F27	Floor	3	1	I49821972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wj0G2mL6?i0Yo9tInEnBGjOlsJrLPsZh6oiR6eztN6?

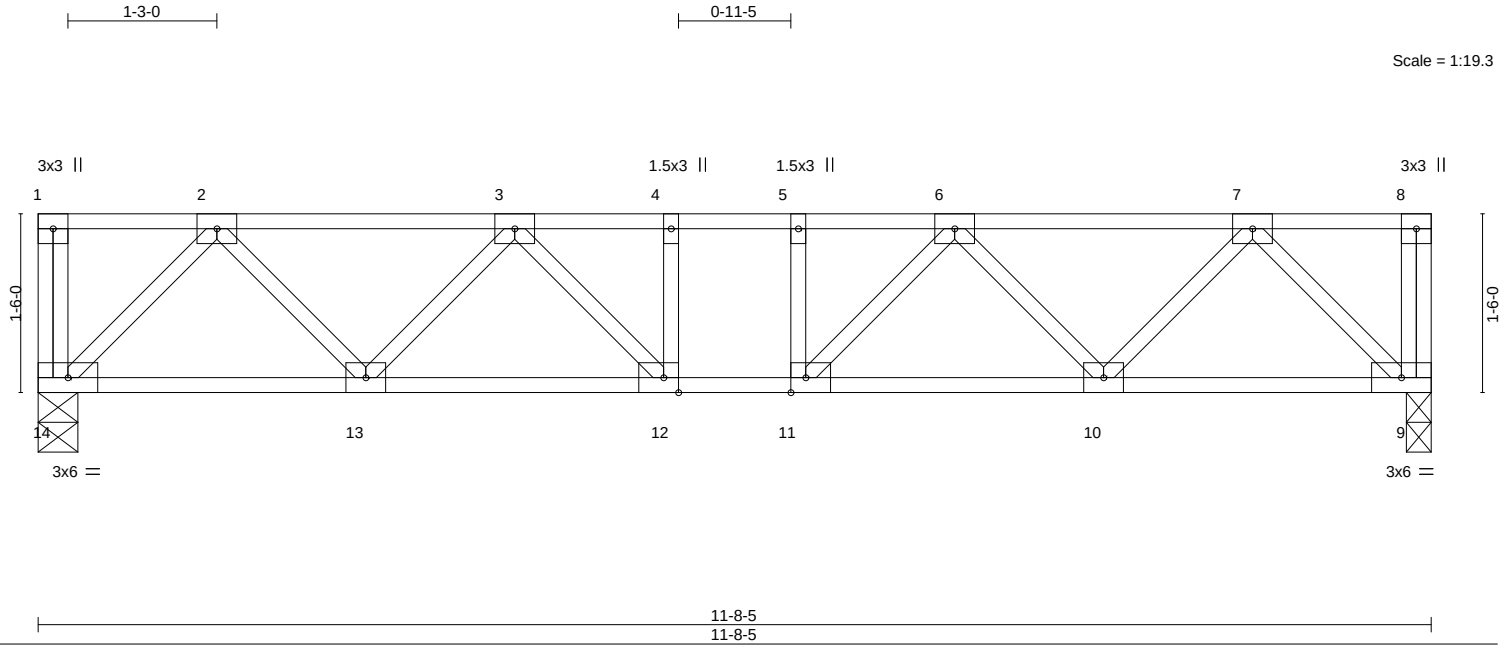

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 67 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-8
Max Grav 14=744(LC 1), 9=744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1066/0, 3-4=-1536/0, 4-5=-1536/0, 5-6=-1536/0, 6-7=-1066/0
BOT CHORD 13-14=0/688, 12-13=0/1417, 11-12=0/1536, 10-11=0/1417, 9-10=0/688
WEBS 2-14=-972/0, 2-13=0/563, 3-13=-522/0, 3-12=-9/317, 7-9=-972/0, 7-10=0/563, 6-10=-522/0, 6-11=-9/317

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F28	Floor	3	1	I49821973
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:15 2022 Page 1
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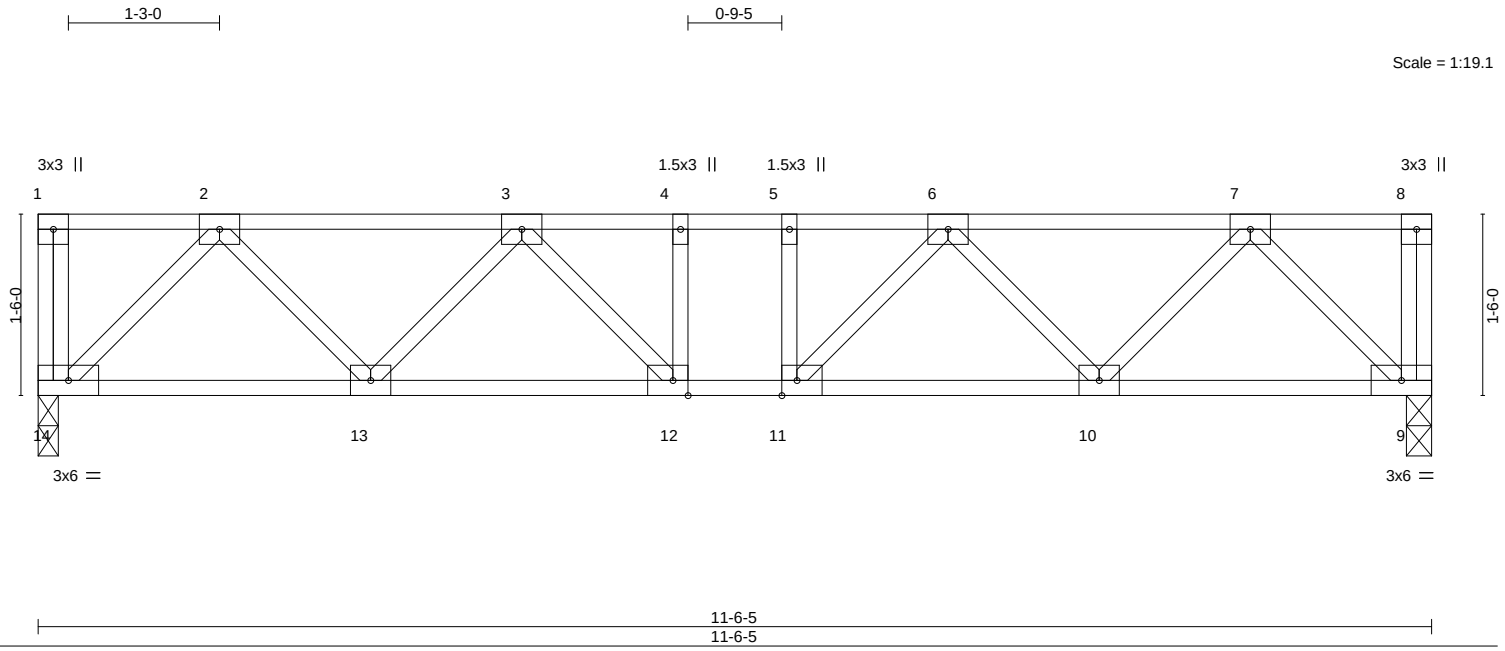

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.04	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.06	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 66 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-2-8
Max Grav 14=733(LC 1), 9=733(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1045/0, 3-4=-1493/0, 4-5=-1493/0, 5-6=-1493/0, 6-7=-1045/0
BOT CHORD 13-14=0/677, 12-13=0/1387, 11-12=0/1493, 10-11=0/1387, 9-10=0/677
WEBS 2-14=-957/0, 2-13=0/548, 3-13=-508/0, 3-12=-22/294, 7-9=-957/0, 7-10=0/548, 6-10=-508/0, 6-11=-22/294

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F29	Floor	2	1	I49821974
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:15 2022 Page 1
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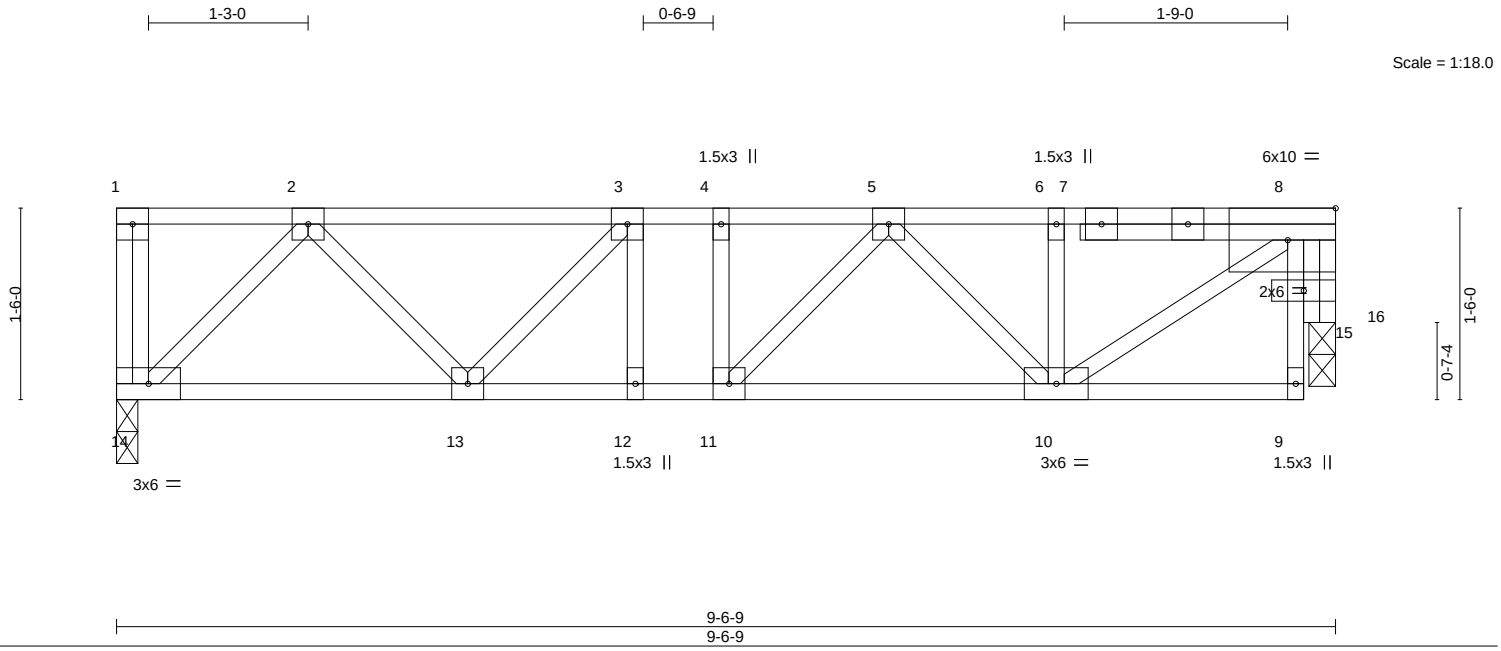

Plate Offsets (X,Y)-- [8:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.02	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.03	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 8-10: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 16=0-2-8
Max Grav 14=603(LC 1), 16=581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-796/0, 3-4=-1024/0, 4-5=-1024/0, 5-6=-711/0, 6-8=-715/0
BOT CHORD	13-14=0/549, 12-13=0/1024, 11-12=0/1024, 10-11=0/947
WEBS	2-14=-776/0, 2-13=0/367, 3-13=-330/0, 8-10=0/779, 5-10=-342/0, 8-16=-599/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14, 16.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F30	Floor	5	1	I49821975
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:18 2022 Page 1
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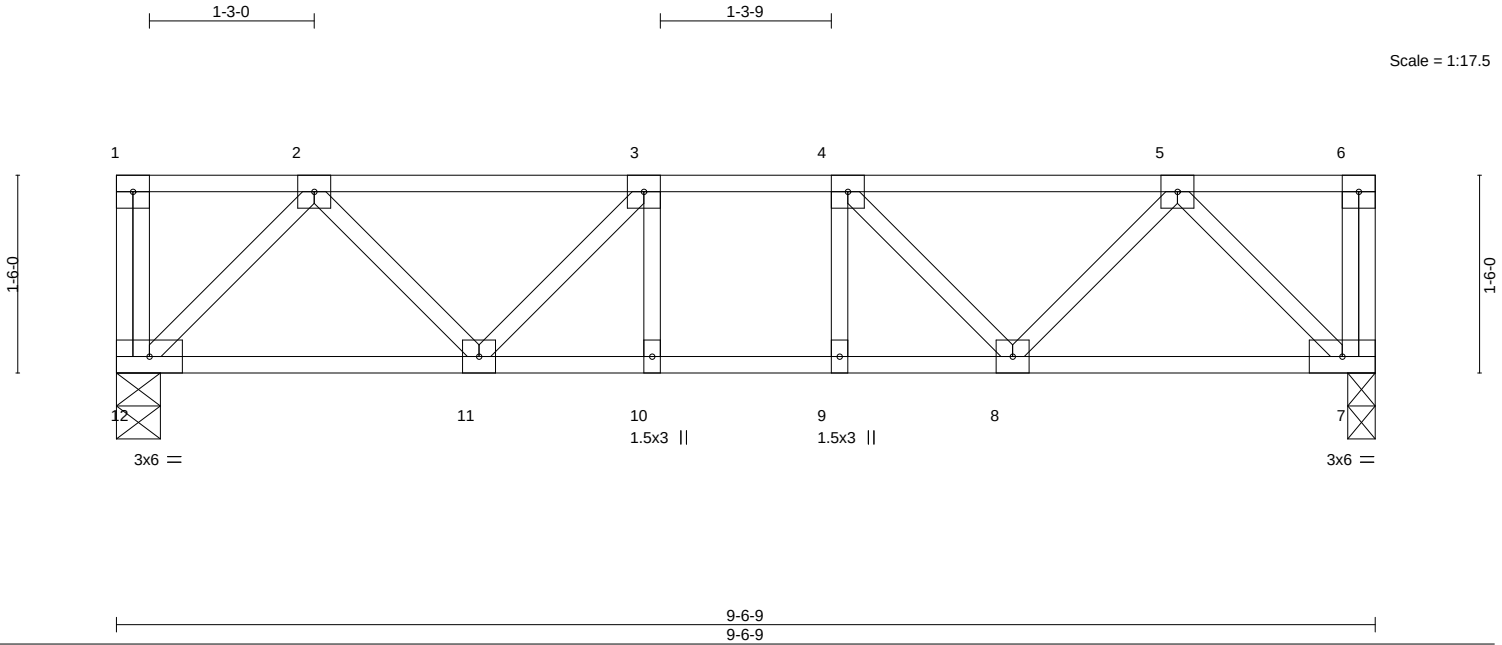

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.04	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-2-8
Max Grav 12=604(LC 1), 7=604(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/0, 3-4=-1028/0, 4-5=-796/0
BOT CHORD 11-12=0/552, 10-11=0/1028, 9-10=0/1028, 8-9=0/1028, 7-8=0/552
WEBS 2-12=-780/0, 2-11=0/364, 3-11=-357/0, 5-7=-780/0, 5-8=0/364, 4-8=-357/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F31	Floor	1	1	I49821976
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:19 2022 Page 1
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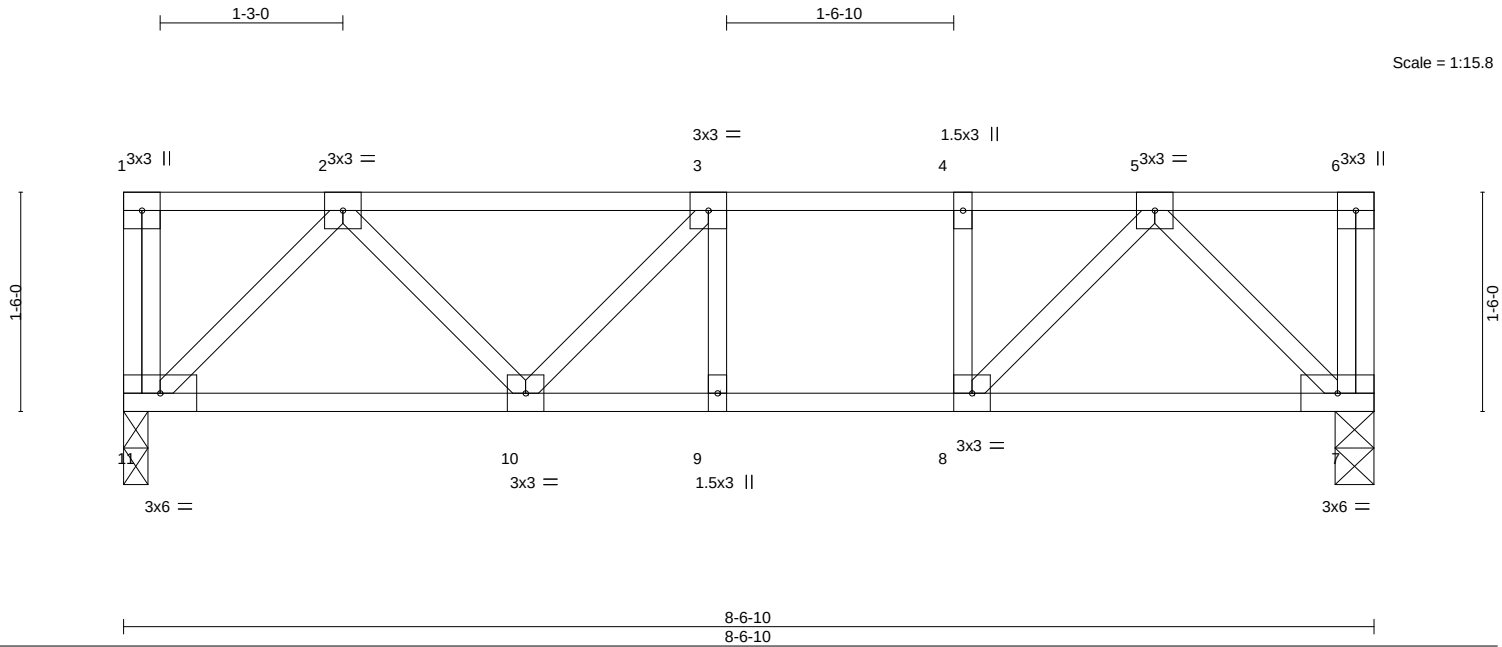

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.05	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 50 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-3-3
Max Grav 11=540(LC 1), 7=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-672/0, 3-4=-787/0, 4-5=-787/0
BOT CHORD 10-11=0/497, 9-10=0/787, 8-9=0/787, 7-8=0/466
WEBS 2-11=-703/0, 2-10=0/260, 5-7=-659/0, 5-8=0/484

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F32	Floor	1	1	I49821977
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:19 2022 Page 1
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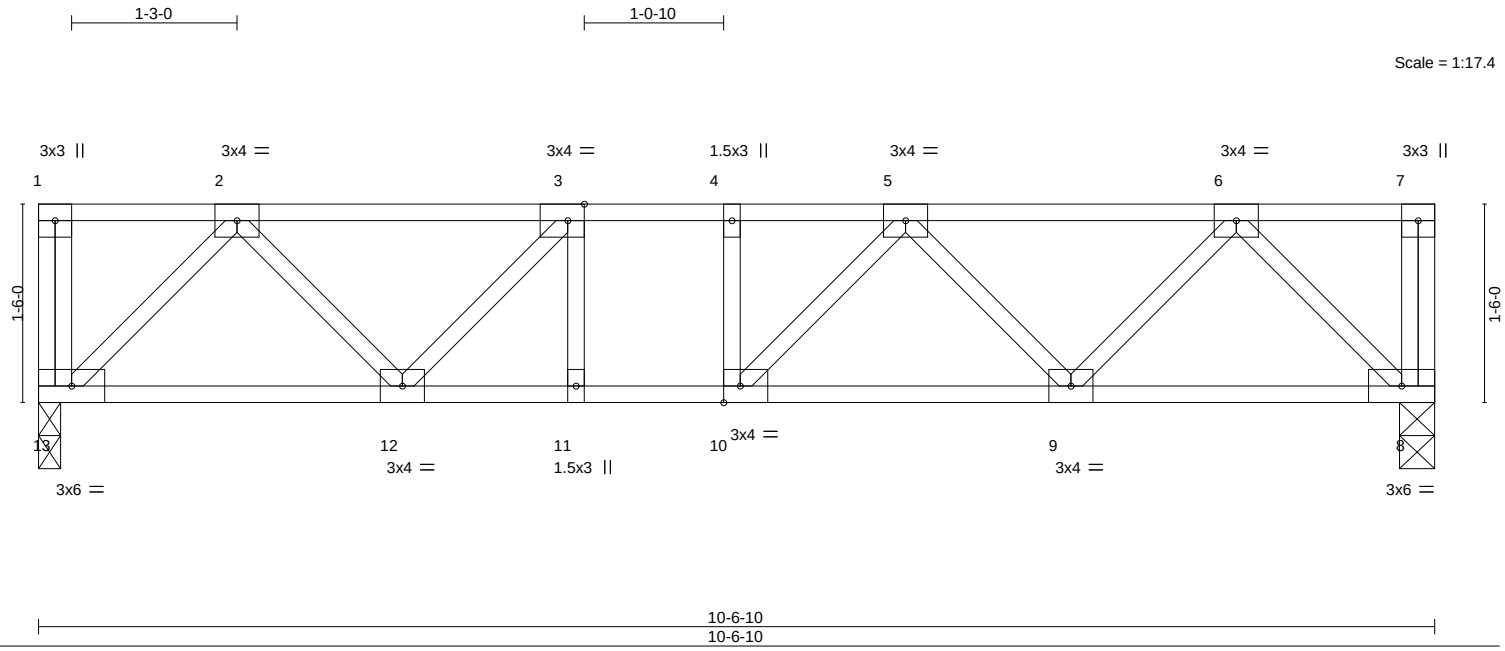

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=0-3-3
Max Grav 13=670(LC 1), 8=670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-924/0, 3-4=-1235/0, 4-5=-1235/0, 5-6=-927/0
BOT CHORD 12-13=0/612, 11-12=0/1235, 10-11=0/1235, 9-10=0/1210, 8-9=0/614
WEBS 2-13=-866/0, 2-12=0/463, 3-12=-451/0, 6-8=-868/0, 6-9=0/467, 5-9=-420/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F33	Floor	1	1	I49821978
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:20 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ltOXJpQtbYniW4KS7VubW_ej0ksOoaVaUj9lJIztN5v

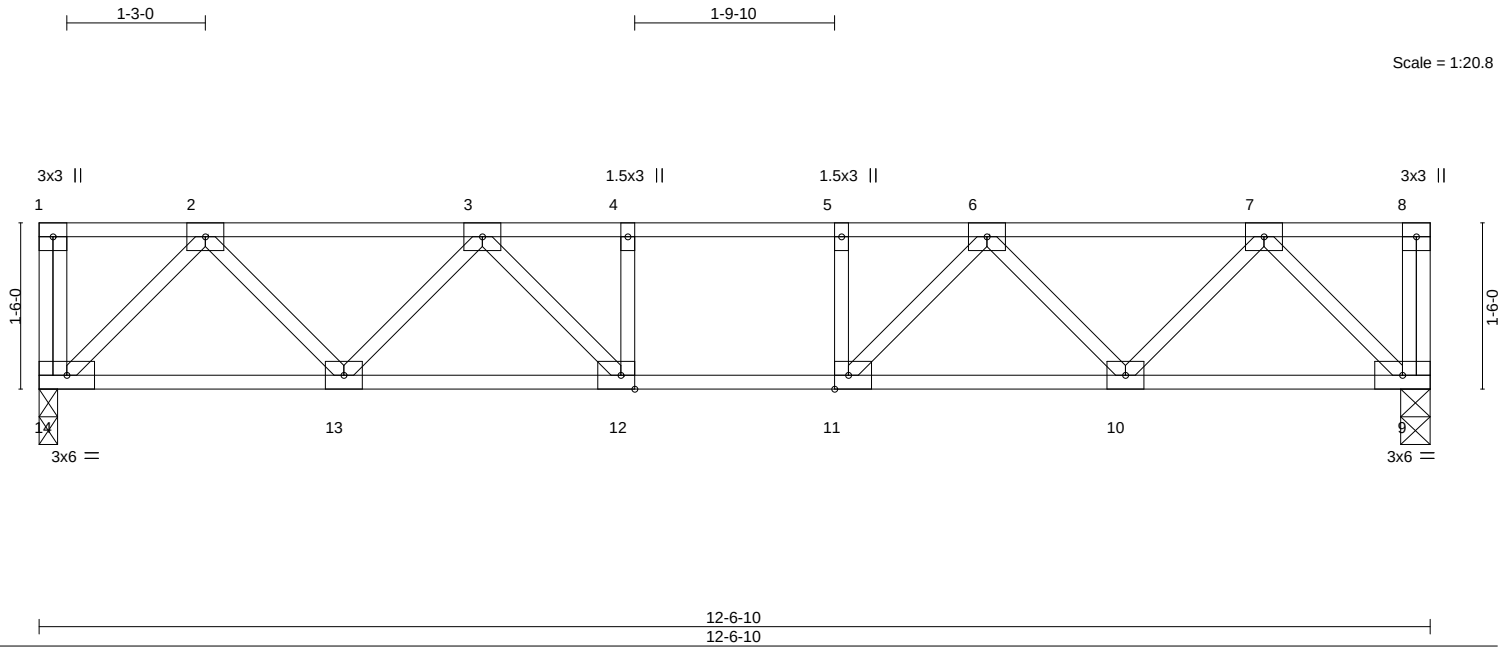

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-3-3
Max Grav 14=800(LC 1), 9=800(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1172/0, 3-4=-1761/0, 4-5=-1761/0, 5-6=-1761/0, 6-7=-1172/0
BOT CHORD 13-14=0/744, 12-13=0/1572, 11-12=0/1761, 10-11=0/1572, 9-10=0/744
WEBS 2-14=-1052/0, 2-13=0/635, 3-13=-595/0, 3-12=0/444, 7-9=-1052/0, 7-10=0/635, 6-10=-595/0, 6-11=0/444

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F34	Floor	1	1	I49821979
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:21 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-D3xvW9QVMrvZ8EvehCPq2BBub87NX_JjjNuJrkztN5u

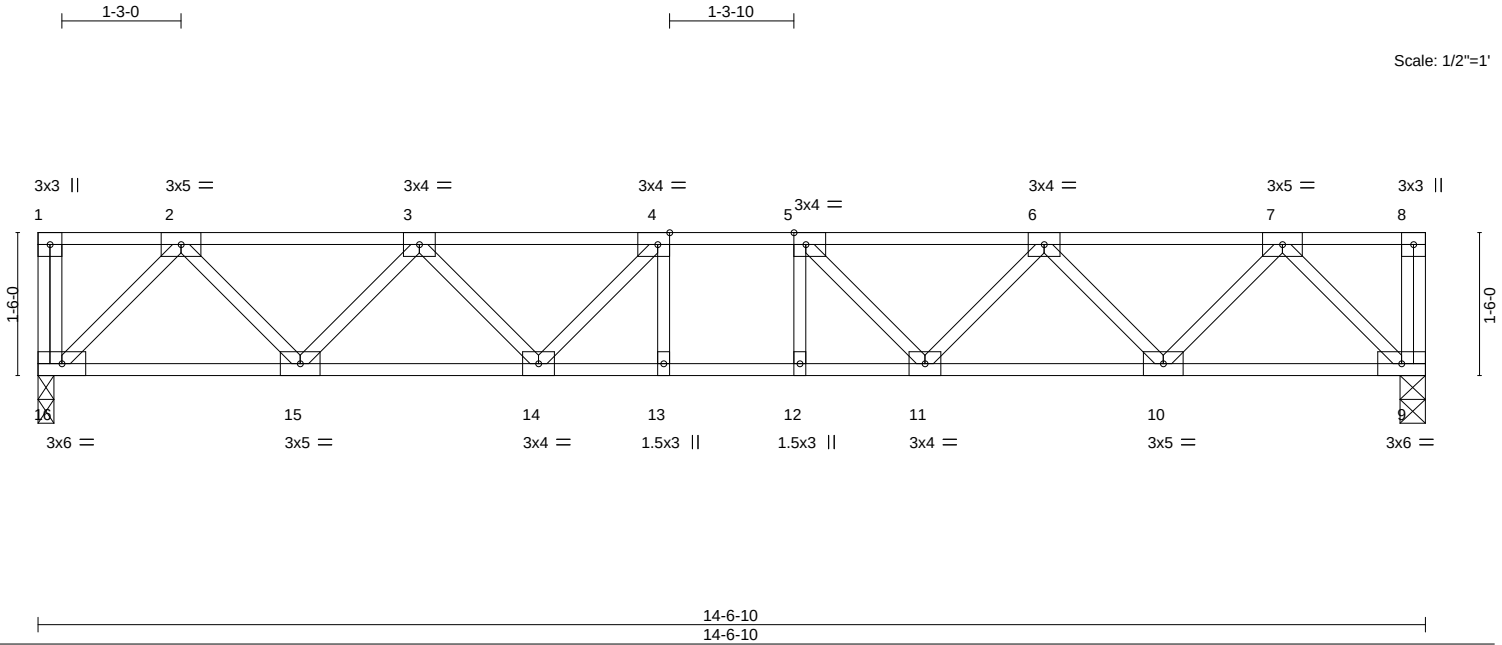

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-3
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1425/0, 3-4=-2191/0, 4-5=-2418/0, 5-6=-2191/0, 6-7=-1425/0
BOT CHORD 15-16=0/868, 14-15=0/1956, 13-14=0/2418, 12-13=0/2418, 11-12=0/2418, 10-11=0/1956, 9-10=0/868
WEBS 2-16=-1227/0, 2-15=0/829, 3-15=-789/0, 3-14=0/397, 4-14=-461/0, 7-9=-1227/0, 7-10=0/829, 6-10=-789/0, 6-11=0/397, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F35	Floor	1	1	I49821980
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hGVHkVR7691QmOUqFww3bPk4qXTmGQHtx1esNBztN5t

1-3-0 0-9-10

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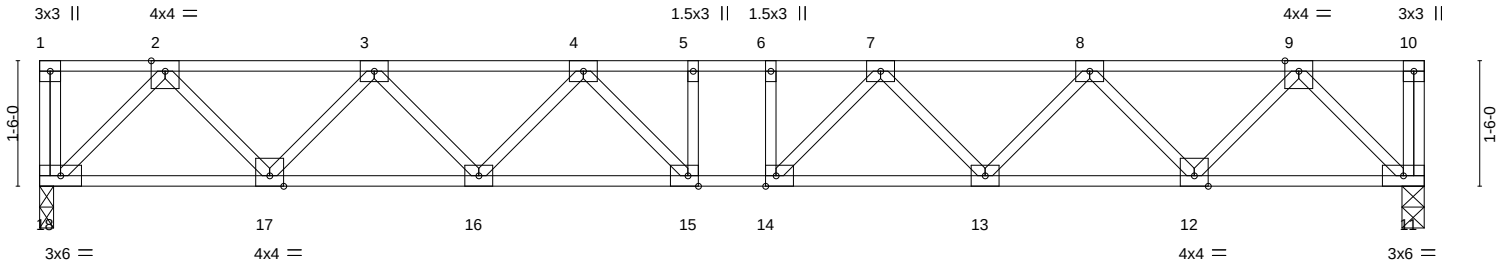

16-6-10
16-6-10

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.14	15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.23	15	>856	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 92 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 11=0-3-3
Max Grav 18=1060(LC 1), 11=1060(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1671/0, 3-4=-2678/0, 4-5=-3129/0, 5-6=-3129/0, 6-7=-3129/0, 7-8=-2678/0, 8-9=-1671/0
BOT CHORD 17-18=0/998, 16-17=0/2319, 15-16=0/3014, 14-15=0/3129, 13-14=0/3014, 12-13=0/2319, 11-12=0/998
WEBS 2-18=-1411/0, 2-17=0/1001, 3-17=-963/0, 3-16=0/533, 4-16=-500/0, 4-15=-103/394, 9-11=-1411/0, 9-12=0/1001, 8-12=-963/0, 8-13=0/533, 7-13=-500/0, 7-14=-103/394

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F36	Floor	1	1	I49821981
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hGVHkVR7691QmOUqFww3bPk19XVQGP?tx1esNBztN5t

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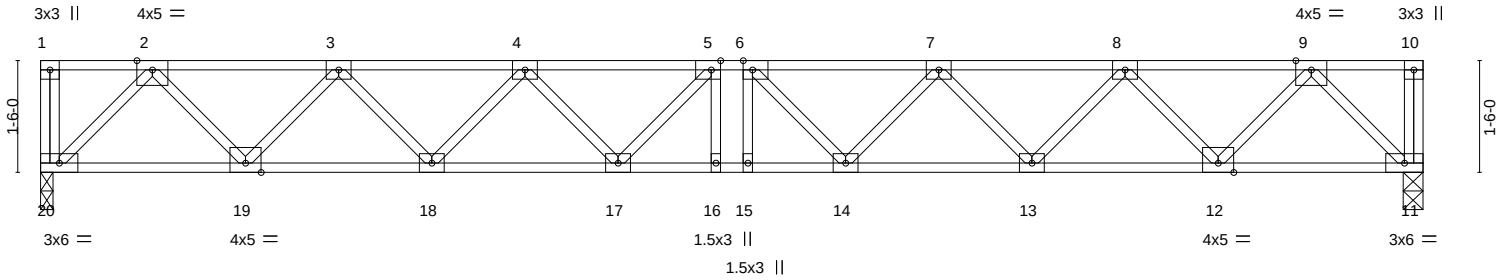

18-6-10
18-6-10

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.21	16	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.34	16	>655	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 103 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-2-0, 11=0-3-3
Max Grav 20=1190(LC 1), 11=1190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1918/0, 3-4=-3166/0, 4-5=-3813/0, 5-6=-3984/0, 6-7=-3813/0, 7-8=-3166/0, 8-9=-1918/0
BOT CHORD 19-20=0/1129, 18-19=0/2681, 17-18=0/3630, 16-17=0/3984, 15-16=0/3984, 14-15=0/3984, 13-14=0/3630, 12-13=0/2681, 11-12=0/1129
WEBS 2-20=-1597/0, 2-19=0/1172, 3-19=-1134/0, 3-18=0/722, 4-18=-690/0, 4-17=0/381, 5-17=-409/51, 9-11=-1597/0, 9-12=0/1172, 8-12=-1134/0, 8-13=0/722, 7-13=-690/0, 7-14=0/381, 6-14=-409/51

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 20.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F37	Floor	1	1	I49821982
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:23 2022 Page 1
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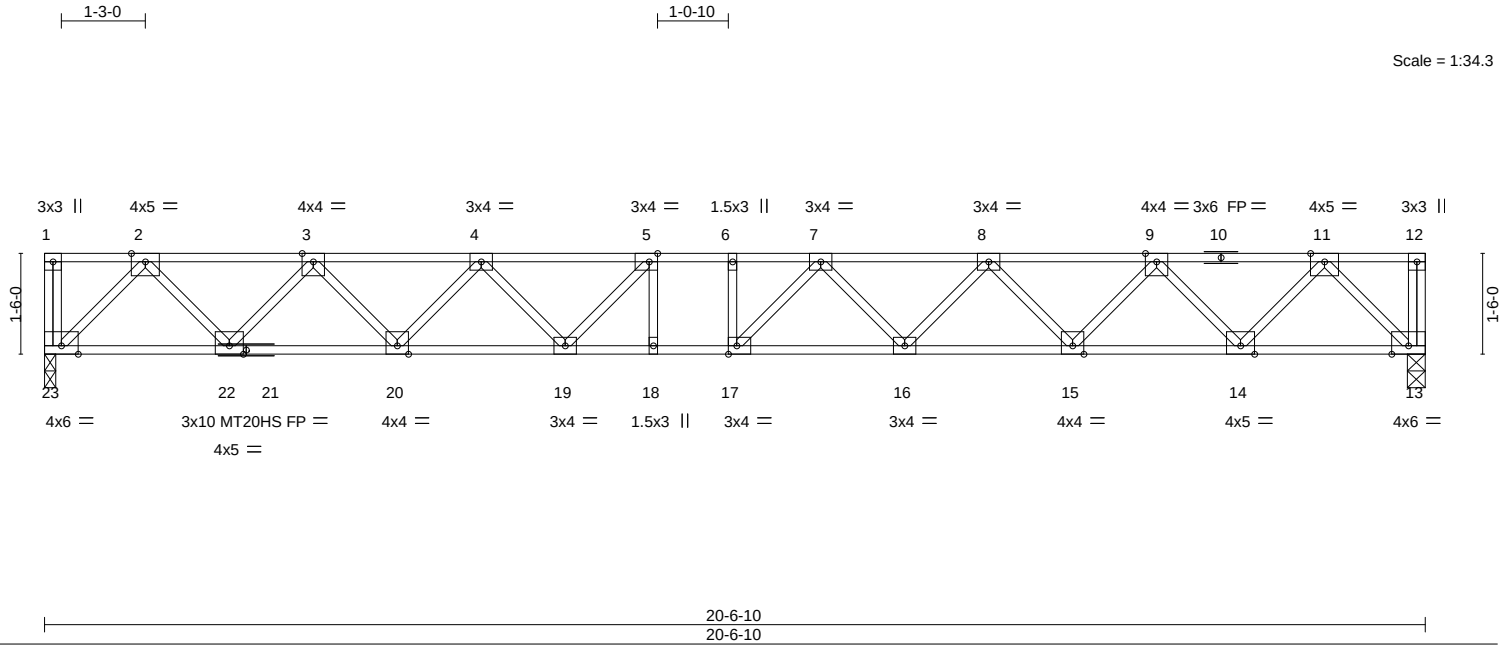

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.31	17	>783	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.51	16-17	>479	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.10	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 112 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
13-21: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 23=0-2-0, 13=0-3-3
Max Grav 23=1320(LC 1), 13=1320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2165/0, 3-4=-3650/0, 4-5=-4532/0, 5-6=-4842/0, 6-7=-4842/0, 7-8=-4537/0, 8-9=-3648/0, 9-11=-2165/0
BOT CHORD 22-23=0/1258, 20-22=0/3047, 19-20=0/4229, 18-19=0/4842, 17-18=0/4842, 16-17=0/4814, 15-16=0/4231, 14-15=0/3046, 13-14=0/1259
WEBS 2-23=-1780/0, 2-22=0/1348, 3-22=-1310/0, 3-20=0/896, 4-20=-862/0, 4-19=0/553, 5-19=-648/0, 11-13=-1780/0, 11-14=0/1348, 9-14=-1309/0, 9-15=0/895, 8-15=-866/0, 8-16=0/455, 7-16=-445/0, 7-17=-275/402

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F38	Floor	1	1	I49821983
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:24 2022 Page 1
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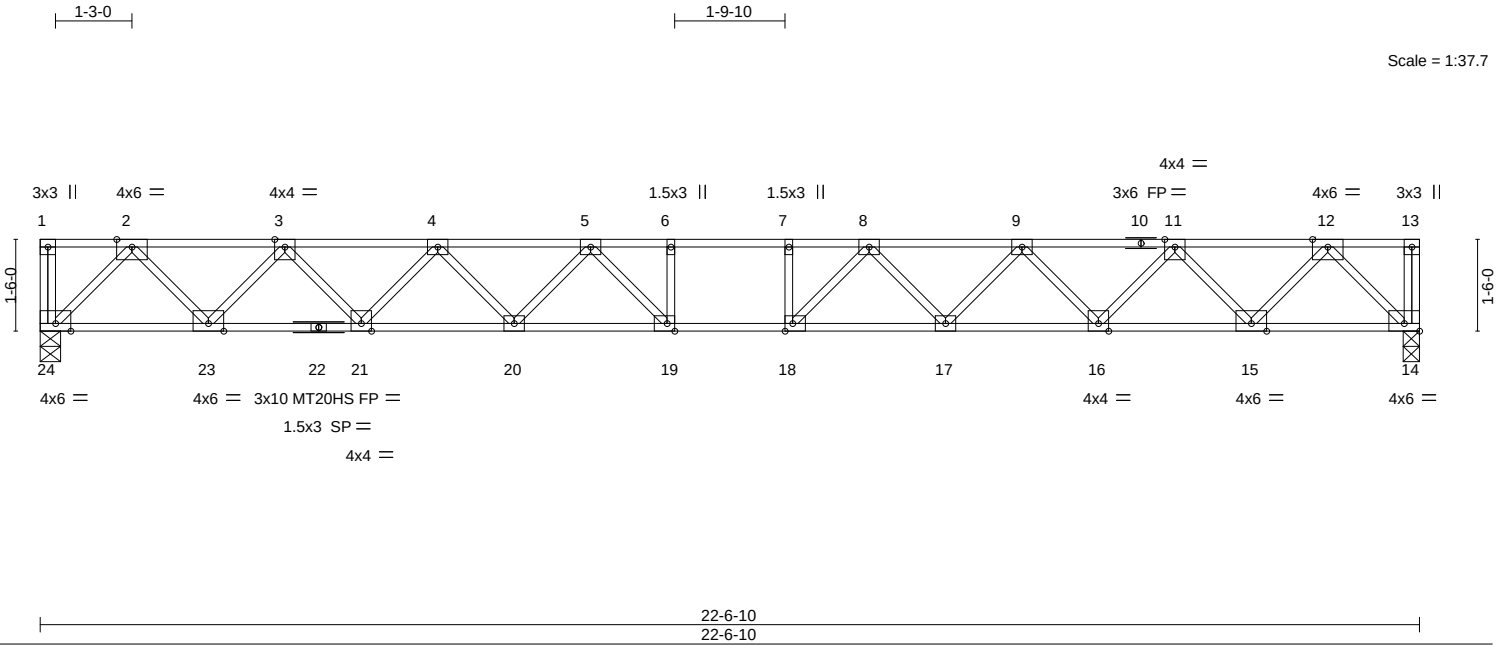

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.38	18-19	>704	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-4-0, 14=0-3-3
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2413/0, 3-4=-4132/0, 4-5=-5252/0, 5-6=-5839/0, 6-7=-5839/0, 7-8=-5839/0, 8-9=-5252/0, 9-11=-4132/0, 11-12=-2412/0
BOT CHORD 23-24=0/1388, 21-23=0/3411, 20-21=0/4833, 19-20=0/5648, 18-19=0/5839, 17-18=0/5648, 16-17=0/4832, 15-16=0/3410, 14-15=0/1388
WEBS 2-24=-1963/0, 2-23=0/1523, 3-23=-1484/0, 3-21=0/1072, 4-21=-1042/0, 4-20=0/623, 5-20=-612/0, 5-19=-155/672, 12-14=-1963/0, 12-15=0/1522, 11-15=-1484/0, 11-16=0/1073, 9-16=-1041/0, 9-17=0/624, 8-17=-612/0, 8-18=-155/672, 7-18=-338/6, 6-19=-338/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F39	Floor	2	1	I49821984
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:25 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5qBQMWT0P4P?dsCPw2UmD1MWXlWVTipJe?sW_WztN5q

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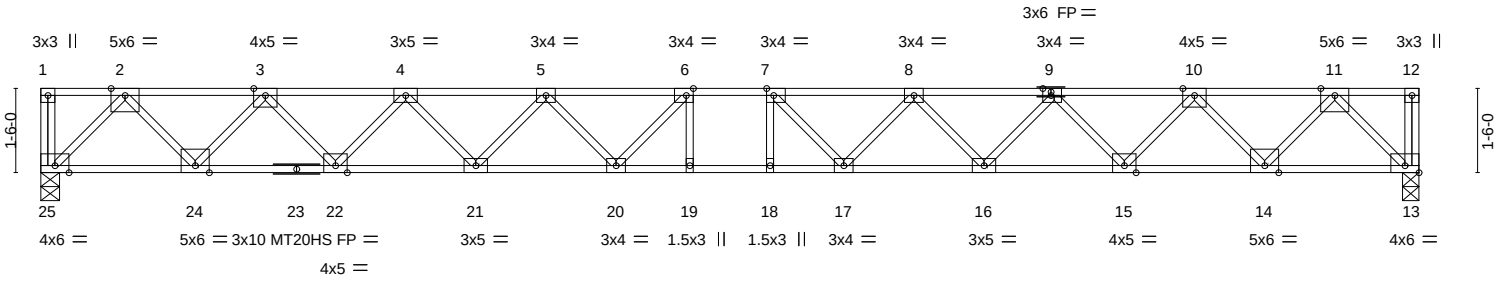

24-6-11
24-6-11

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-12,Edge], [13:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.48	18-19	>609	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.78	18-19	>374	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	13	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 9-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 13-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 25=0-4-0, 13=0-3-8
Max Grav 25=1580(LC 1), 13=1580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2661/0, 3-4=-4614/0, 4-5=-5979/0, 5-6=-6741/0, 6-7=-6970/0, 7-8=-6741/0, 8-9=-5979/0, 9-10=-4613/0, 10-11=-2661/0
BOT CHORD 24-25=0/1517, 22-24=0/3778, 21-22=0/5430, 20-21=0/6504, 19-20=0/6970, 18-19=0/6970, 17-18=0/6970, 16-17=0/6504, 15-16=0/5430, 14-15=0/3778, 13-14=0/1518
WEBS 2-25=-2146/0, 2-24=0/1700, 3-24=-1661/0, 3-22=0/1243, 4-22=-1212/0, 4-21=0/816, 5-21=-782/0, 5-20=0/547, 11-13=-2146/0, 11-14=0/1700, 10-14=-1661/0, 10-15=0/1242, 9-15=-1213/0, 9-16=0/817, 8-16=-781/0, 8-17=0/547, 7-17=-670/134, 6-20=-670/135

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F40	Floor	1	1	I49821985
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:29 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_cQxCuXWTIvQ6TWB9uYiNtWBaMryPYkuYdqk7HztN5m

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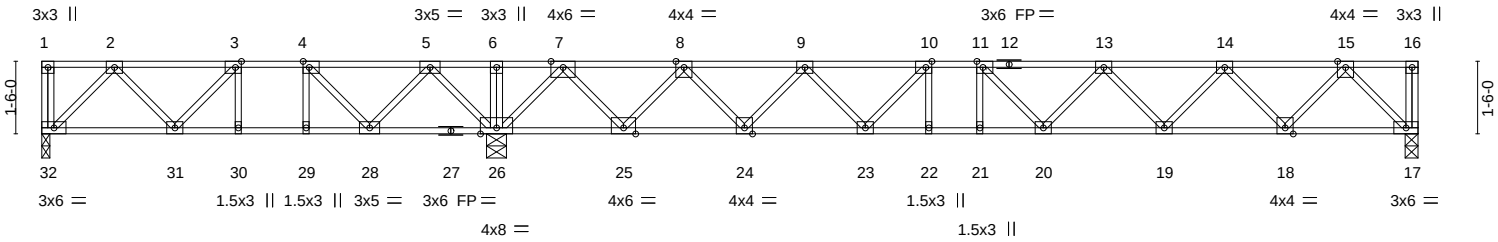

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-4-13 28-5-8
9-4-13 19-0-11

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.29	20-21	>772	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-12: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 17-27: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 32=0-2-0, 17=0-3-3, 26=0-4-15
Max Uplift 32=-68(LC 4)
Max Grav 32=457(LC 3), 17=1089(LC 7), 26=2312(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/268, 3-4=-536/614, 4-5=-92/1133, 5-6=0/2240, 6-7=0/2240, 7-8=-318/93, 8-9=-1903/0, 9-10=-2877/0, 10-11=-3272/0, 11-13=-3253/0, 13-14=-2793/0, 14-15=-1726/0
BOT CHORD 31-32=-63/419, 30-31=-614/536, 29-30=-614/536, 28-29=-614/536, 26-28=-1536/0, 25-26=-933/0, 24-25=0/1252, 23-24=0/2525, 22-23=0/3272, 21-22=0/3272, 20-21=0/3272, 19-20=0/3174, 18-19=0/2395, 17-18=0/1029
WEBS 2-32=-592/89, 2-31=-305/140, 3-31=-32/501, 3-30=-338/0, 5-26=-1147/0, 5-28=0/842, 4-28=-1011/0, 4-29=0/361, 7-26=-1848/0, 7-25=0/1442, 8-25=-1421/0, 8-24=0/999, 9-24=-954/0, 9-23=0/591, 10-23=-713/0, 10-22=-57/290, 15-17=-1456/0, 15-18=0/1035, 14-18=-995/0, 14-19=0/592, 13-19=-566/0, 13-20=-76/250, 11-20=-258/245, 11-21=-273/74

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F41	Floor	1	1	I49821986
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:30 2022 Page 1
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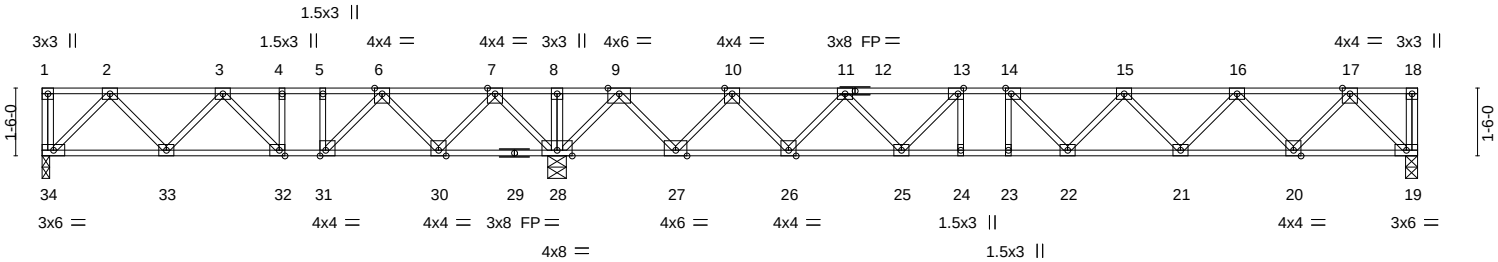

11-4-13 30-5-8
11-4-13 19-0-11

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.29	22-23	>794	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	19	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 34=0-2-0, 19=0-3-3, 28=0-4-15
Max Uplift 34=-12(LC 4)
Max Grav 34=568(LC 3), 19=1055(LC 4), 28=2492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-739/139, 3-4=-820/625, 4-5=-820/625, 5-6=-820/625, 6-7=-2/1453, 7-8=0/2685, 8-9=0/2685, 9-10=0/472, 10-11=-1567/0, 11-13=-2602/0, 13-14=-3040/0, 14-15=-3067/0, 15-16=-2668/0, 16-17=-1662/0
BOT CHORD 33-34=-35/513, 32-33=-298/923, 31-32=-625/820, 30-31=-1044/504, 28-30=-1852/0, 27-28=-1340/0, 26-27=0/886, 25-26=0/2218, 24-25=0/3040, 23-24=0/3040, 22-23=0/3040, 21-22=0/3021, 20-21=0/2300, 19-20=0/996
WEBS 2-34=-726/50, 2-33=-155/336, 3-33=-273/235, 3-32=-582/0, 7-28=-1392/0, 7-30=0/966, 6-30=-986/0, 6-31=0/857, 5-31=-412/0, 17-19=-1409/0, 17-20=0/990, 16-20=-949/0, 16-21=0/547, 15-21=-524/0, 14-22=-191/310, 9-28=-1901/0, 9-27=0/1485, 10-27=-1464/0, 10-26=0/1043, 11-26=-996/0, 11-25=0/633, 13-25=-776/0, 13-24=-27/330, 14-23=-312/45

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 34.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 34.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F42	Floor	1	1	I49821987
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:32 2022 Page 1
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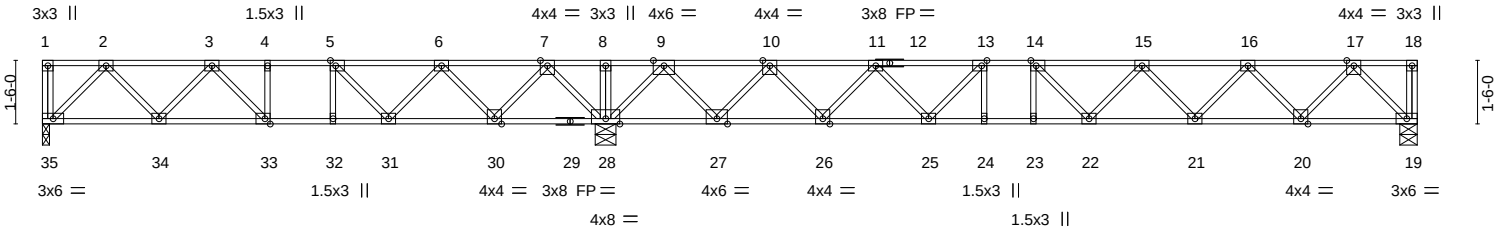

13-3-9 32-5-8
13-3-9 19-1-15

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [33:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.19	22-23	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.30	22-23	>753	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 176 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
19-29: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 35=0-2-0, 19=0-4-15, 28=0-5-14
Max Grav 35=691(LC 3), 19=1076(LC 4), 28=2581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-970/0, 3-4=-1306/235, 4-5=-1306/235, 5-6=-959/618, 6-7=-20/1296, 7-8=0/2735, 8-9=0/2735, 9-10=-78/585, 10-11=-1711/0, 11-13=-2735/0, 13-14=-3169/0, 14-15=-3178/0, 15-16=-2743/0, 16-17=-1700/0
BOT CHORD 34-35=0/636, 33-34=0/1268, 32-33=-235/1306, 31-32=-235/1306, 30-31=-927/630, 28-30=-1752/0, 27-28=-1382/0, 26-27=-174/1036, 25-26=0/2356, 24-25=0/3169, 23-24=0/3169, 22-23=0/3169, 21-22=0/3114, 20-21=0/2356, 19-20=0/1016
WEBS 2-35=-899/0, 2-34=-8/497, 3-34=-443/99, 3-33=-387/55, 7-28=-1509/0, 7-30=0/1100, 6-30=-1061/0, 6-31=0/677, 5-31=-826/0, 5-32=0/257, 9-28=-1915/0, 9-27=0/1501, 10-27=-1476/0, 10-26=0/1054, 11-26=-1007/0, 11-25=0/658, 13-25=-820/0, 13-24=-15/345, 17-19=-1437/0, 17-20=0/1017, 16-20=-976/0, 16-21=0/574, 15-21=-551/0, 14-22=-182/334, 14-23=-326/34

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 35.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F43	Floor	4	1	I49821988
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:33 2022 Page 1
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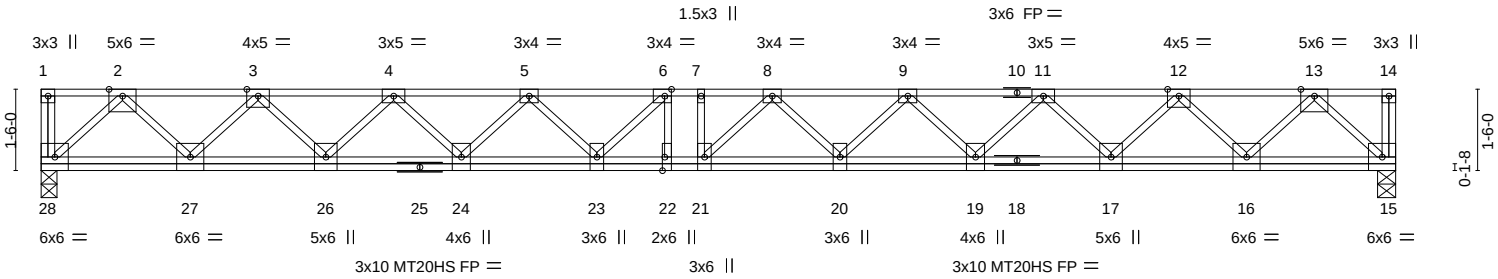

24-11-13
24-11-13

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [22:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.46	21	>642	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.75	20-21	>395	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 169 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
1-10: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
25-28,15-18: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 28=0-3-8, 15=0-4-0
Max Grav 28=1608(LC 1), 15=1608(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2832/0, 3-4=-4926/0, 4-5=-6402/0, 5-6=-7250/0, 6-7=-7524/0, 7-8=-7524/0, 8-9=-7256/0, 9-11=-6400/0, 11-12=-4919/0, 12-13=-2830/0
BOT CHORD 27-28=0/1613, 26-27=0/4026, 24-26=0/5804, 23-24=0/6975, 22-23=0/7524, 21-22=0/7524, 20-21=0/7517, 19-20=0/6974, 17-19=0/5799, 16-17=0/4022, 15-16=0/1612
WEBS 2-28=-2230/0, 2-27=0/1767, 3-27=-1732/0, 3-26=0/1305, 4-26=-1273/0, 4-24=0/867, 5-24=-831/0, 5-23=0/558, 6-23=-648/79, 6-22=-271/272, 13-15=-2228/0, 13-16=0/1766, 12-16=-1730/0, 12-17=0/1300, 11-17=-1276/0, 11-19=0/871, 9-19=-834/0, 9-20=0/480, 8-20=-490/0, 8-21=-346/398

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F44	Floor	3	1	I49821989
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:34 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KZEqFbafIrYjCEO8yR8t4xE20NY24pMeivYVoUztN5h

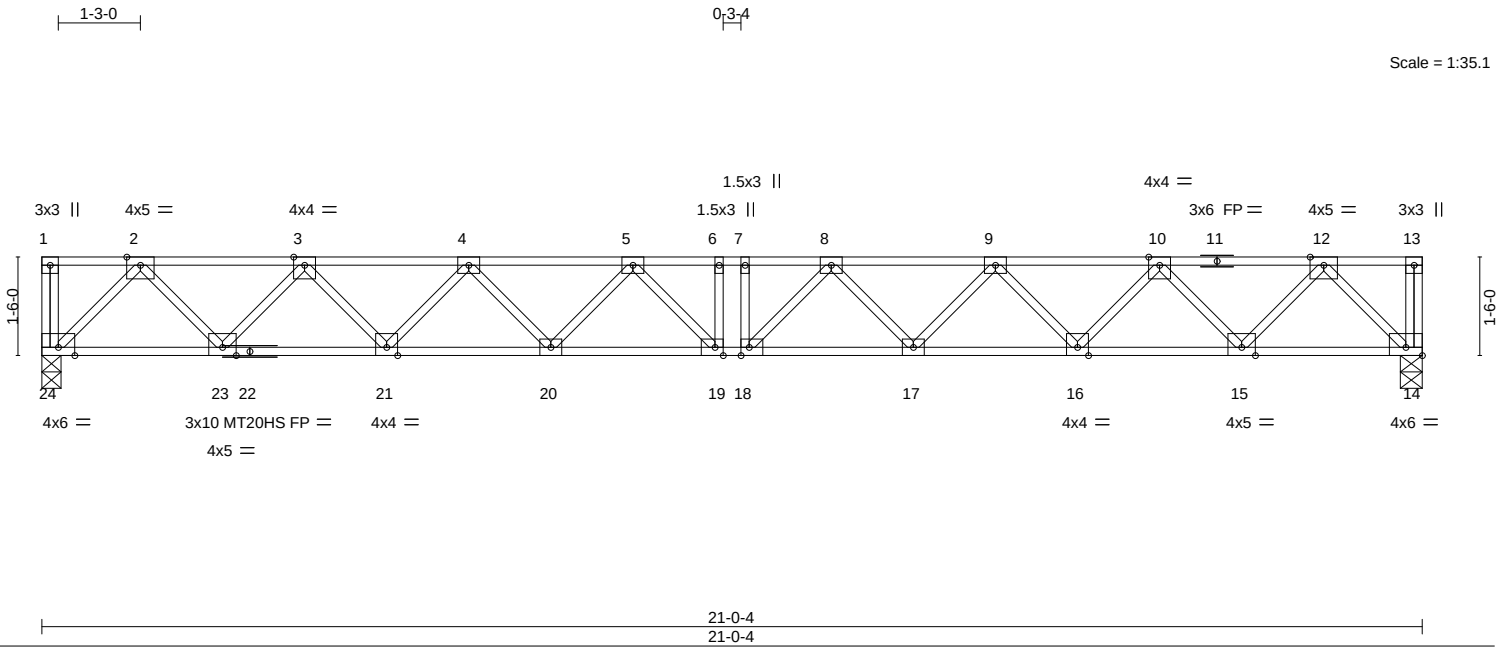

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.34	19	>741	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.55	19	>456	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
14-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20,17-18.

REACTIONS. (size) 24=0-3-8, 14=0-4-0
Max Grav 24=1350(LC 1), 14=1350(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2223/0, 3-4=-3762/0, 4-5=-4702/0, 5-6=-5085/0, 6-7=-5085/0, 7-8=-5085/0, 8-9=-4702/0, 9-10=-3762/0, 10-12=-2223/0
BOT CHORD 23-24=0/1289, 21-23=0/3131, 20-21=0/4371, 19-20=0/5010, 18-19=0/5085, 17-18=0/5010, 16-17=0/4371, 15-16=0/3131, 14-15=0/1289
WEBS 2-24=-1822/0, 2-23=0/1389, 3-23=-1350/0, 3-21=0/937, 4-21=-906/0, 4-20=0/492, 5-20=-464/0, 5-19=-205/386, 12-14=-1823/0, 12-15=0/1389, 10-15=-1350/0, 10-16=0/937, 9-16=-906/0, 9-17=0/492, 8-17=-464/0, 8-18=-205/386

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F45	Floor	1	1	I49821990
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-omoCSxbH38gaqOzKW8f6d8mEXnvrpHtnxZI2LxztN5g

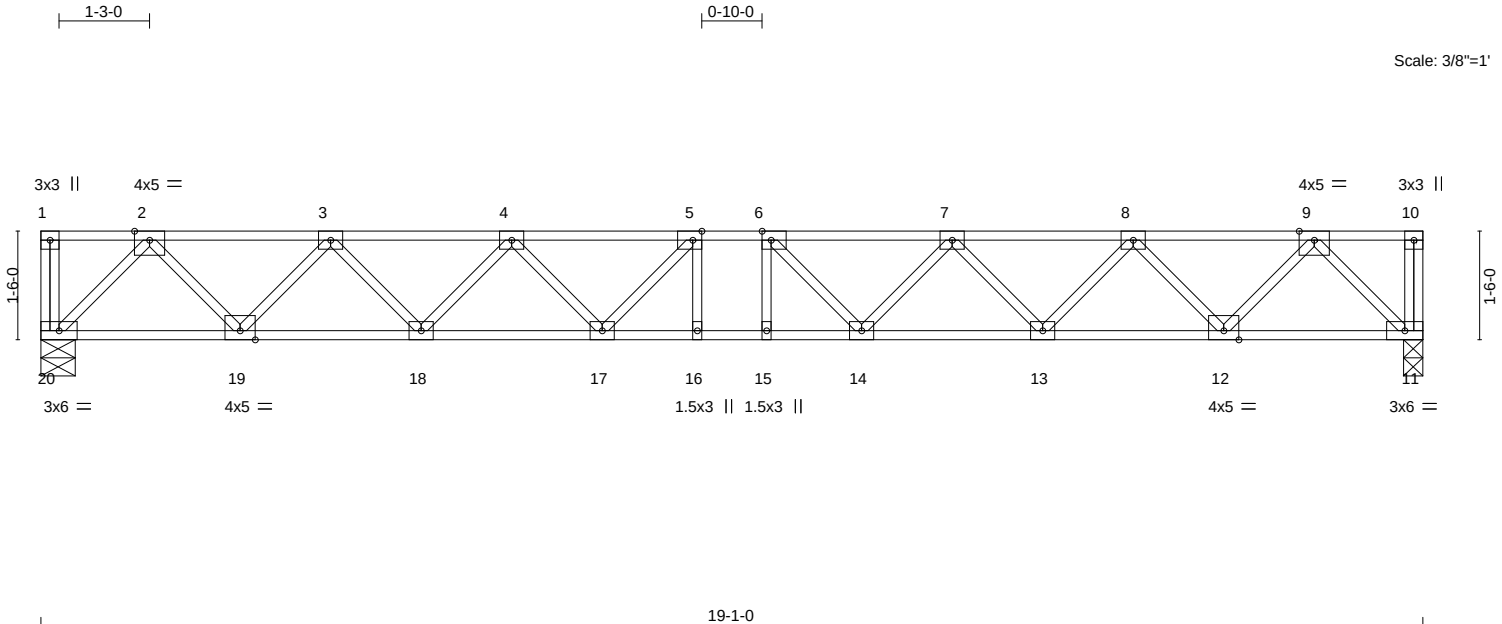

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.23	16	>983	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.37	15-16	>605	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 105 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 20=0-5-11, 11=0-3-3
Max Grav 20=1224(LC 1), 11=1224(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1983/0, 3-4=-3295/0, 4-5=-4000/0, 5-6=-4201/0, 6-7=-4000/0, 7-8=-3295/0, 8-9=-1983/0
BOT CHORD 19-20=0/1163, 18-19=0/2777, 17-18=0/3791, 16-17=0/4201, 15-16=0/4201, 14-15=0/4201, 13-14=0/3791, 12-13=0/2777, 11-12=0/1163
WEBS 2-20=-1645/0, 2-19=0/1218, 3-19=-1180/0, 3-18=0/770, 4-18=-737/0, 4-17=0/425, 5-17=-492/44, 9-11=-1645/0, 9-12=0/1218, 8-12=-1180/0, 8-13=0/770, 7-13=-737/0, 7-14=0/425, 6-14=-492/44

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F46	Floor	1	1	I49821991
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-omoCSxbH38gaqOzKW8f6d8mHontIpKRnxZI2LxztN5g

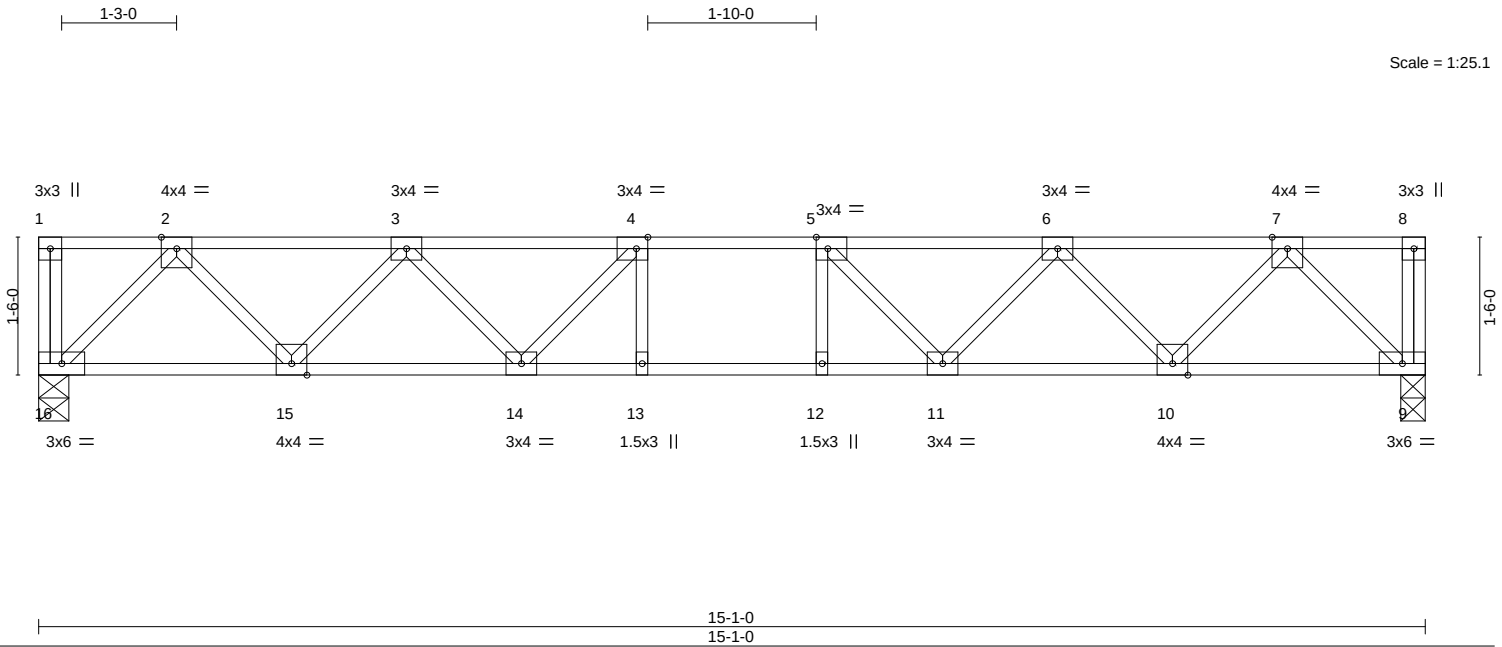

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.12	13-14	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.18	13-14	>985	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 82 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 16=0-3-15, 9=0-3-3
Max Grav 16=964(LC 1), 9=964(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1490/0, 3-4=-2320/0, 4-5=-2584/0, 5-6=-2320/0, 6-7=-1490/0
BOT CHORD 15-16=0/902, 14-15=0/2051, 13-14=0/2584, 12-13=0/2584, 11-12=0/2584, 10-11=0/2051, 9-10=0/902
WEBS 2-16=-1276/0, 2-15=0/874, 3-15=-834/0, 3-14=0/450, 4-14=-536/0, 7-9=-1276/0, 7-10=0/874, 6-10=-834/0, 6-11=0/450, 5-11=-536/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F47	Floor	1	1	I49821992
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:36 2022 Page 1
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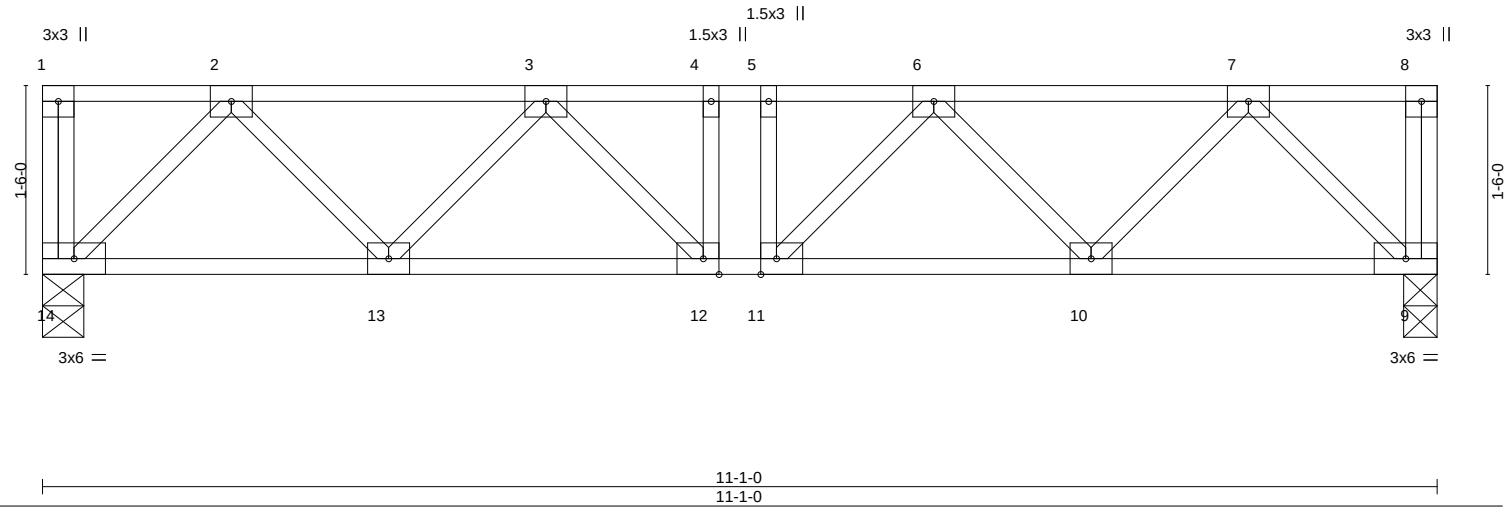

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.03	12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.05	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-15, 9=0-3-3
Max Grav 14=704(LC 1), 9=704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-991/0, 3-4=-1382/0, 4-5=-1382/0, 5-6=-1382/0, 6-7=-991/0
BOT CHORD 13-14=0/648, 12-13=0/1307, 11-12=0/1382, 10-11=0/1307, 9-10=0/648
WEBS 2-14=-916/0, 2-13=0/510, 3-13=-470/0, 7-9=-916/0, 7-10=0/510, 6-10=-470/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL) I49821993
PRYOR-F3B	F48	Floor	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:37 2022 Page 1
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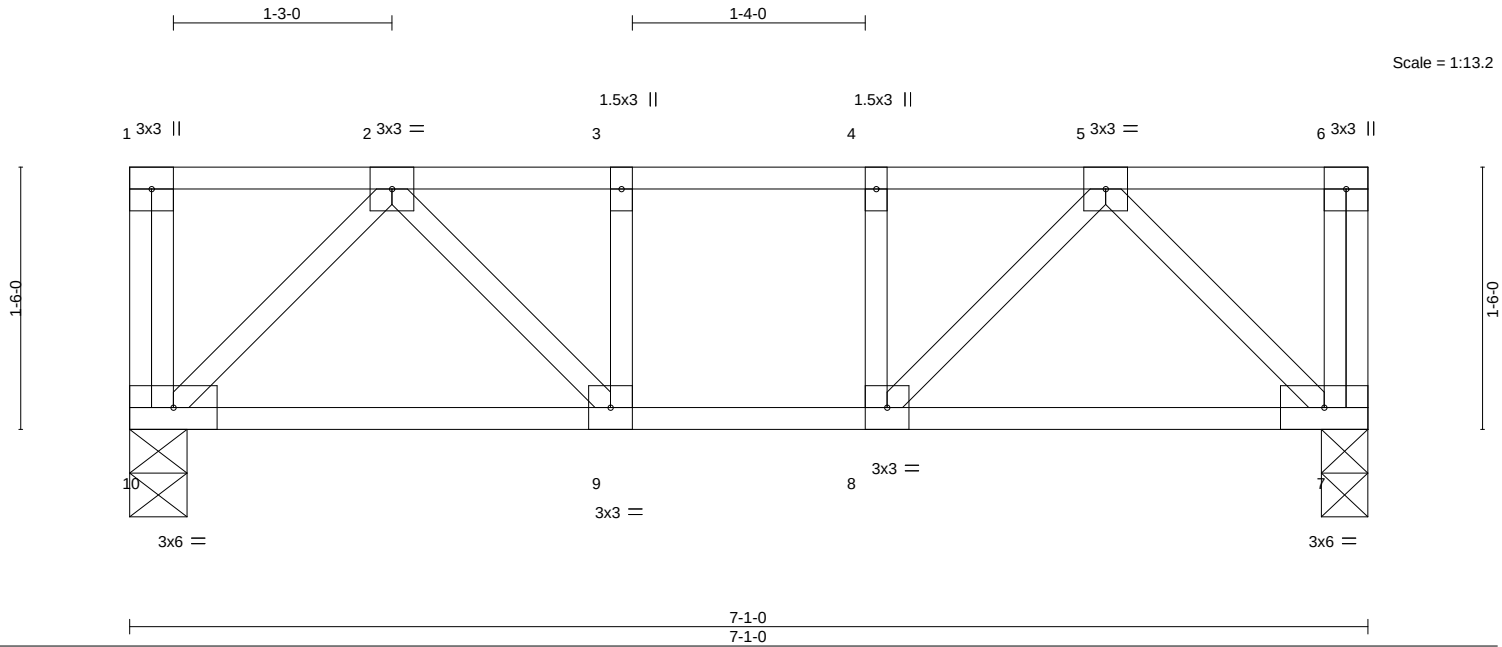

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-15, 7=0-3-3
Max Grav 10=444(LC 1), 7=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-542/0, 3-4=-542/0, 4-5=-542/0
BOT CHORD 9-10=0/365, 8-9=0/542, 7-8=0/365
WEBS 2-10=-516/0, 2-9=0/289, 5-7=-516/0, 5-8=0/289

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
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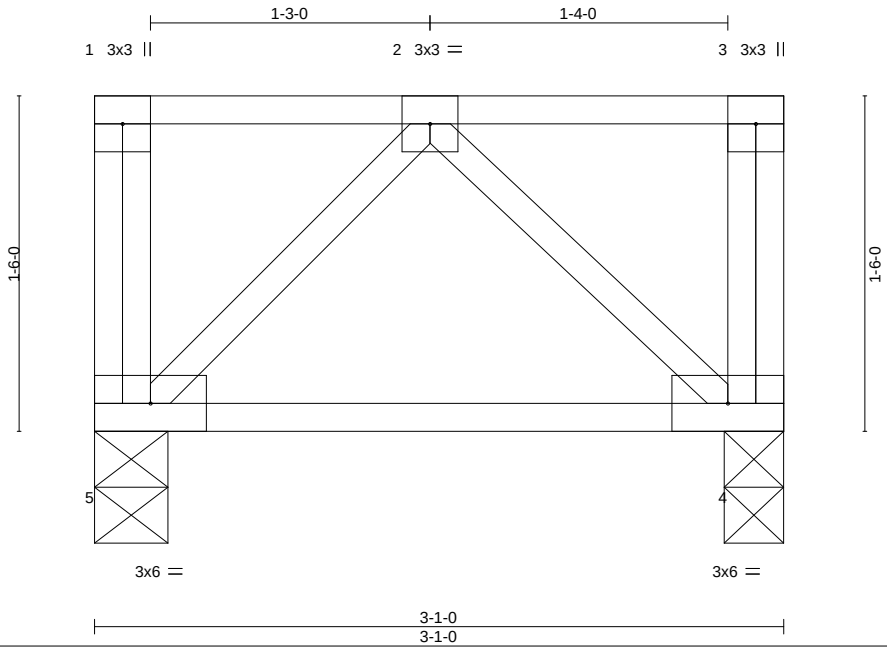
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F49	Floor	1	1	I49821994
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:37 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-l8vytddXamwI3i7jdZiaiZriWansHKt4Otn9PpztN5e



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-15, 4=0-3-3
Max Grav 5=184(LC 1), 4=184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Plates checked for a plus or minus 2 degree rotation about its center.
2) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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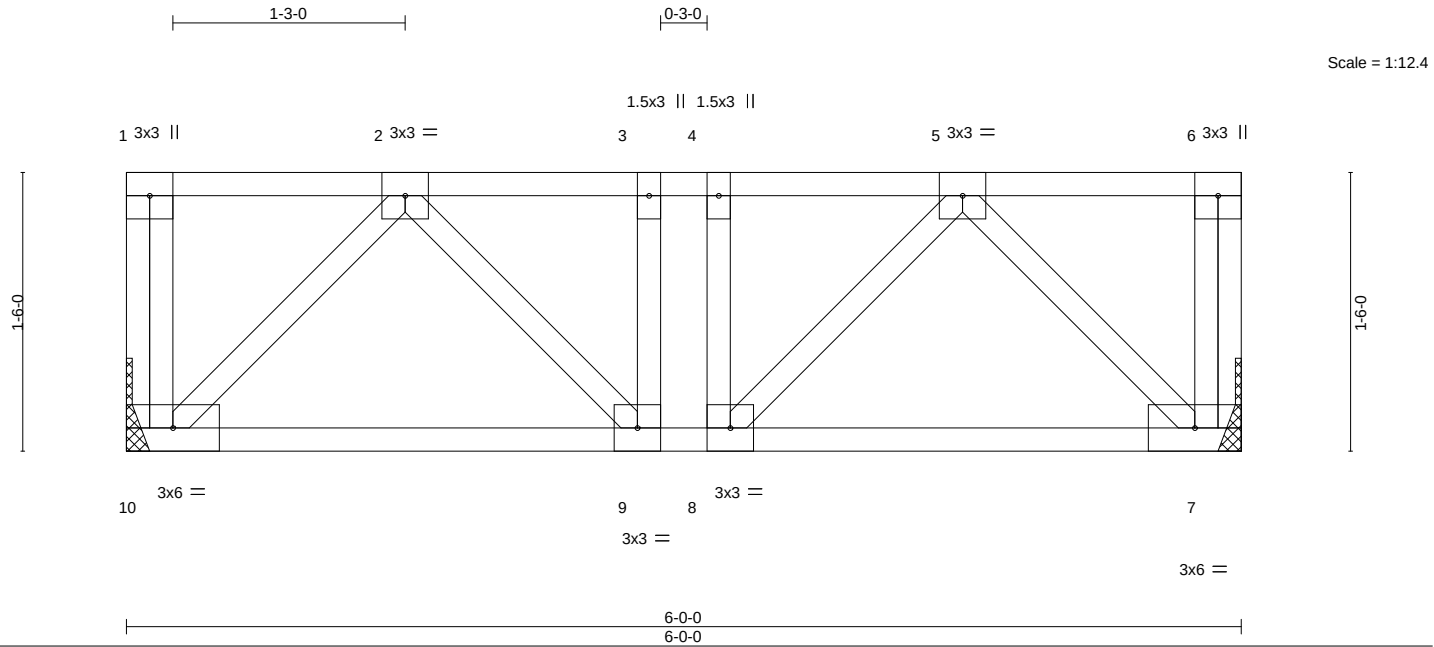
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F50	FLOOR	10	1	I49821995
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:52 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-p1Jd1loy2Np9M?nb?DT5pjzEsdtTI35HrivSRRztN5P



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=719(LC 1), 7=719(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-764/0, 3-4=-764/0, 4-5=-764/0
BOT CHORD 9-10=0/576, 8-9=0/764, 7-8=0/576
WEBS 2-10=-815/0, 2-9=0/322, 5-7=-815/0, 5-8=0/322

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F51	Floor	7	1	I49821996
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 17:12:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-QKKUimcSFx7f?gEbbj0hpqFcUhqz?tq0fxLbjnztF8?

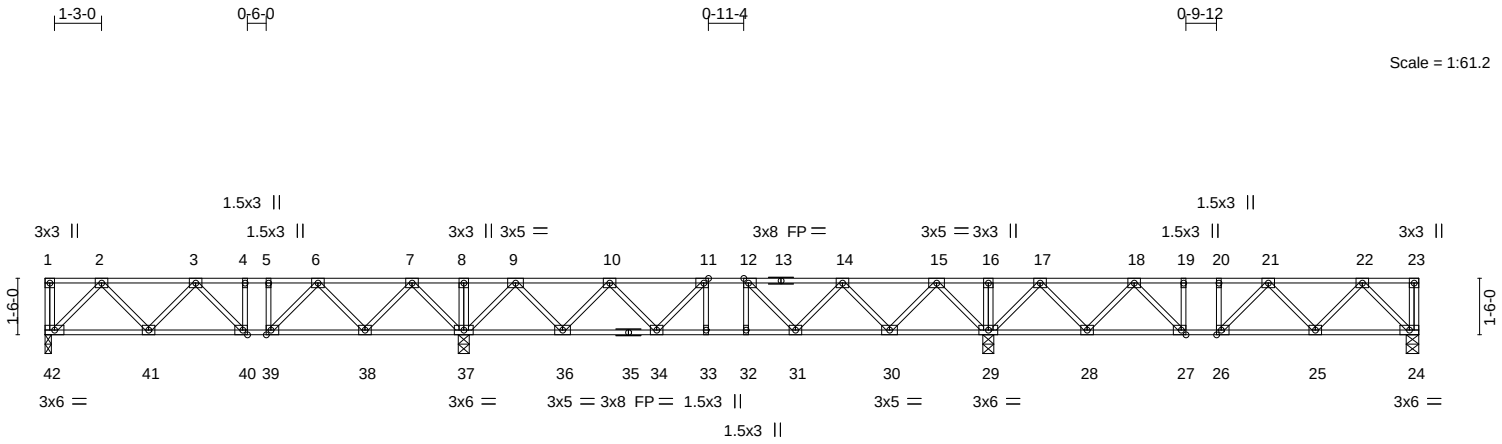

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=635(LC 5), 37=1845(LC 3), 29=1845(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/13, 4-5=-1012/13, 5-6=-1012/13, 6-7=-378/469, 7-8=0/1435, 8-9=0/1435, 9-10=-263/291, 10-11=-998/11, 11-12=-1208/0, 12-13=-1012/10, 13-14=-1012/10, 14-15=-296/289, 15-16=0/1390, 16-17=0/1390, 17-18=-412/422, 18-19=-1092/0, 19-20=-1092/0, 20-21=-1092/0, 21-22=-864/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-13/1012, 38-39=-217/803, 37-38=-734/0, 36-37=-569/0, 35-36=-101/779, 34-35=-101/779, 33-34=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-100/803, 29-30=-540/0, 28-29=-683/0, 27-28=-171/854, 26-27=0/1092, 25-26=0/1111, 24-25=0/580
WEBS 7-37=-1165/0, 7-38=0/757, 6-38=-743/0, 6-39=0/514, 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 3-40=-296/0, 9-37=-1231/0, 9-36=0/845, 10-36=-814/0, 10-34=0/378, 11-34=-374/0, 15-29=-1217/0, 15-30=0/833, 14-30=-803/0, 14-31=0/365, 12-31=-356/0, 17-29=-1178/0, 17-28=0/766, 18-28=-760/0, 18-27=0/556, 19-27=-273/0, 22-24=-820/0, 22-25=0/422, 21-25=-368/2, 21-26=-275/3

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

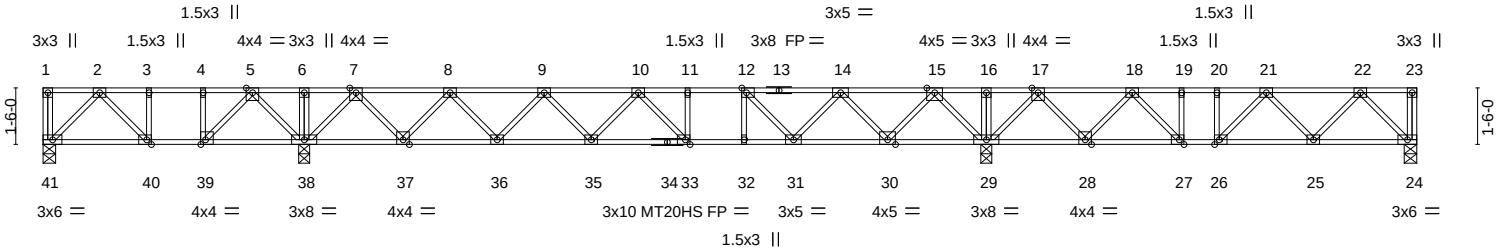
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F52	Floor	5	1	I49821997
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:55 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Dc?mfnrqLIBkDTVAgL0oQMbbVrjwVLxjXg862mztN5M

1-3-0 1-3-12 1-4-8 0-9-12

Scale = 1:61.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-4	25-0-12	36-6-0
6-11-4	18-1-8	11-5-4

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.28	33-35	>781	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-116(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=328(LC 5), 24=611(LC 5), 38=1904(LC 3), 29=2197(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-256/498, 3-4=-256/498, 4-5=-256/498, 5-6=0/1497, 6-7=0/1497, 7-8=-487/0, 8-9=-1636/0, 9-10=-2259/0, 10-11=-2148/0, 11-12=-2148/0, 12-14=-1542/0, 14-15=-283/224, 15-16=0/1924, 16-17=0/1924, 17-18=-258/865, 18-19=-992/242, 19-20=-992/242, 20-21=-992/242, 21-22=-819/0
BOT CHORD 39-40=-498/256, 38-39=-993/0, 37-38=-430/0, 36-37=0/1195, 35-36=0/2082, 33-35=0/2366, 32-33=0/2148, 31-32=0/2148, 30-31=0/1038, 29-30=-771/0, 28-29=-1186/0, 27-28=-545/724, 26-27=-242/992, 25-26=-33/1042, 24-25=0/556
WEBS 2-41=-348/223, 2-40=-492/14, 5-38=-914/0, 5-39=0/888, 4-39=-467/0, 7-38=-1538/0, 7-37=0/1153, 8-37=-1100/0, 8-36=0/678, 9-36=-668/0, 9-35=0/269, 10-33=-485/14, 15-29=-1631/0, 15-30=0/1205, 14-30=-1161/0, 14-31=0/794, 12-31=-942/0, 12-32=0/319, 17-29=-1268/0, 17-28=0/849, 18-28=-856/0, 18-27=0/687, 19-27=-322/0, 22-24=-786/0, 22-25=-32/391, 21-25=-332/104, 21-26=-406/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 41.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

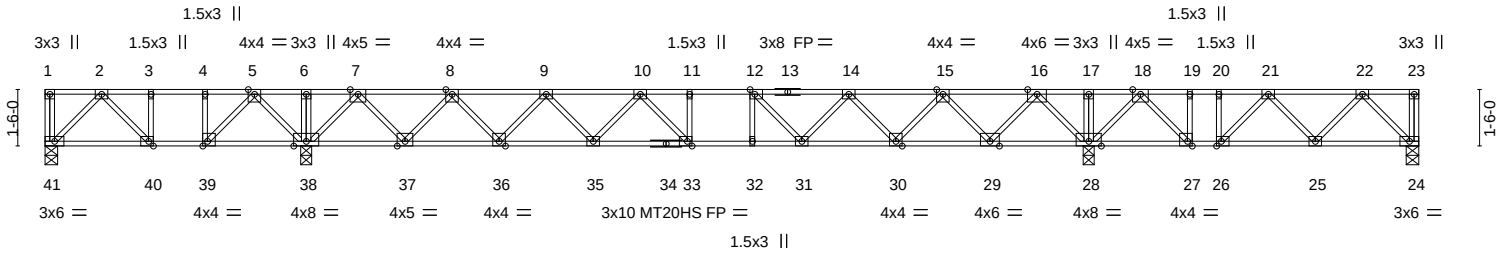
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F53	Floor	3	1	I49821998
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:57 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9_7W4Ts4tvRSSmfZom3GWngxieQkzCL0__dD7fztN5K

1-3-0 1-3-12 1-6-8 0-7-12

Scale = 1:61.2



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-4 27-8-12 36-6-0
6-11-4 20-9-8 8-9-4

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.20	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.32	33-35	>779	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 28=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-186(LC 6), 24=-183(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=296(LC 5), 24=393(LC 5), 38=2114(LC 3), 28=2387(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-176/669, 3-4=-176/669, 4-5=-176/669, 5-6=0/1855, 6-7=0/1855, 7-8=-424/0, 8-9=-1851/0, 9-10=-2699/0, 10-11=-2914/0, 11-12=-2914/0, 12-14=-2481/0, 14-15=-1447/0, 15-16=0/254, 16-17=0/2576, 17-18=0/2576, 18-19=-124/1301, 19-20=-124/1301, 20-21=-124/1301, 21-22=-410/461
BOT CHORD 39-40=-669/176, 38-39=-1271/0, 37-38=-633/0, 36-37=0/1279, 35-36=0/2411, 33-35=0/2938, 32-33=0/2914, 31-32=0/2914, 30-31=0/2093, 29-30=0/775, 28-29=-1252/0, 27-28=-1923/0, 26-27=-1301/124, 25-26=-779/430, 24-25=-206/339
WEBS 2-41=-304/319, 2-40=-643/0, 3-40=-4/323, 5-38=-1005/0, 5-39=0/1042, 4-39=-556/0, 7-38=-1733/0, 7-37=0/1344, 8-37=-1291/0, 8-36=0/871, 9-36=-851/0, 9-35=0/445, 10-35=-378/0, 10-33=-262/297, 16-28=-1872/0, 16-29=0/1483, 15-29=-1440/0, 15-30=0/1012, 14-30=-973/0, 14-31=0/607, 12-31=-734/0, 18-28=-1237/0, 18-27=0/1210, 19-27=-614/0, 22-24=-479/291, 22-25=-380/106, 21-25=-29/473, 21-26=-917/0, 20-26=0/413

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 41 and 183 lb uplift at joint 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F55	Floor	7	1	I49821999
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:08:59 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-5NEHV8uLPWhAi4pyvB5kbCmL9S9gRALJSI6JBYztN5I

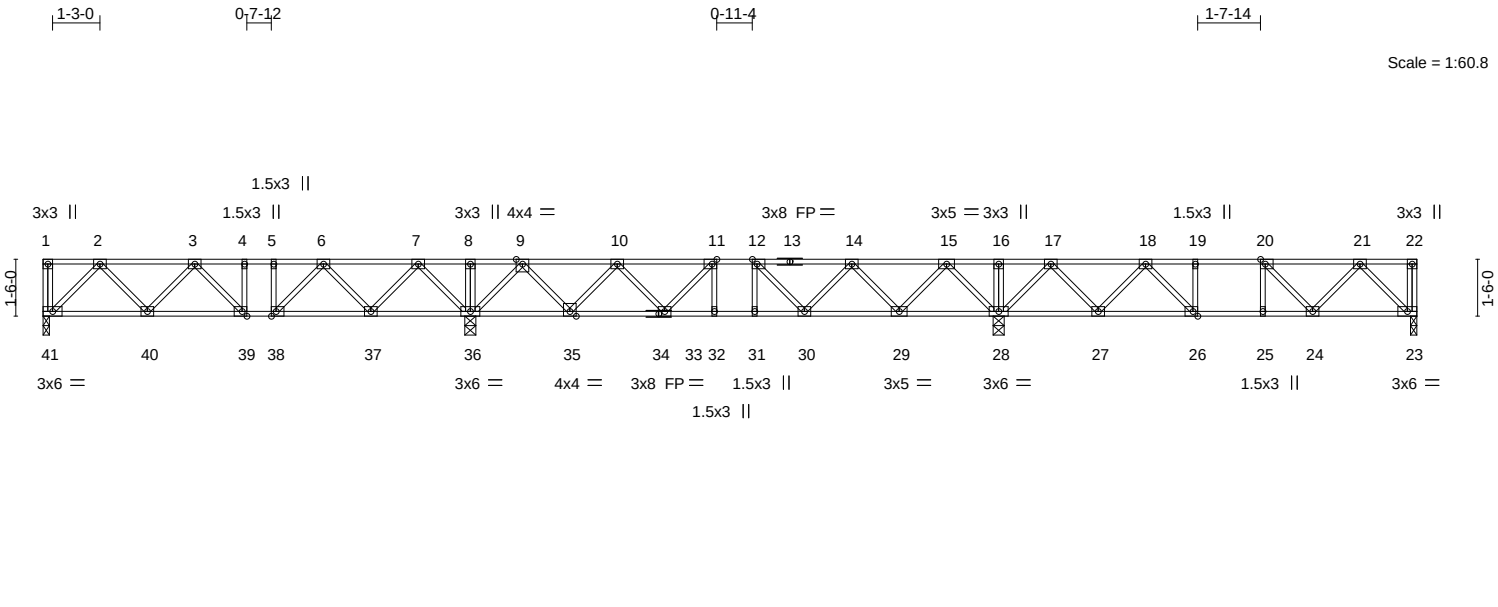

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [20:0-1-8,Edge], [26:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.05	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.07	31	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	23	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 36=0-3-8, 28=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=621(LC 5), 23=617(LC 5), 36=1880(LC 16), 28=1772(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-836/0, 3-4=-1042/2, 4-5=-1042/2, 5-6=-1042/2, 6-7=-383/472, 7-8=0/1451, 8-9=0/1451, 9-10=-296/283, 10-11=-1069/0, 11-12=-1307/0, 12-14=-1138/0, 14-15=-464/212, 15-16=0/1259, 16-17=0/1259, 17-18=-444/280, 18-19=-1052/0, 19-20=-1052/0, 20-21=-823/0
BOT CHORD 40-41=0/565, 39-40=0/1072, 38-39=-2/1042, 37-38=-216/818, 36-37=-738/0, 35-36=-560/0, 33-35=-84/830, 32-33=0/1307, 31-32=0/1307, 30-31=0/1307, 29-30=-33/950, 28-29=-444/0, 27-28=-518/21, 26-27=-52/853, 25-26=0/1052, 24-25=0/1052, 23-24=0/566
WEBS 2-41=-799/0, 2-40=0/402, 3-40=-350/19, 7-36=-1177/0, 7-37=0/767, 6-37=-758/0, 6-38=0/542, 3-39=-295/0, 5-38=-262/0, 9-36=-1268/0, 9-35=0/880, 10-35=-847/0, 10-33=0/416, 11-33=-424/0, 15-28=-1183/0, 15-29=0/801, 14-29=-772/0, 14-30=0/330, 12-30=-313/0, 17-28=-1109/0, 17-27=0/698, 18-27=-697/0, 18-26=0/492, 21-23=-801/0, 21-24=0/382, 20-24=-331/48

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 23.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

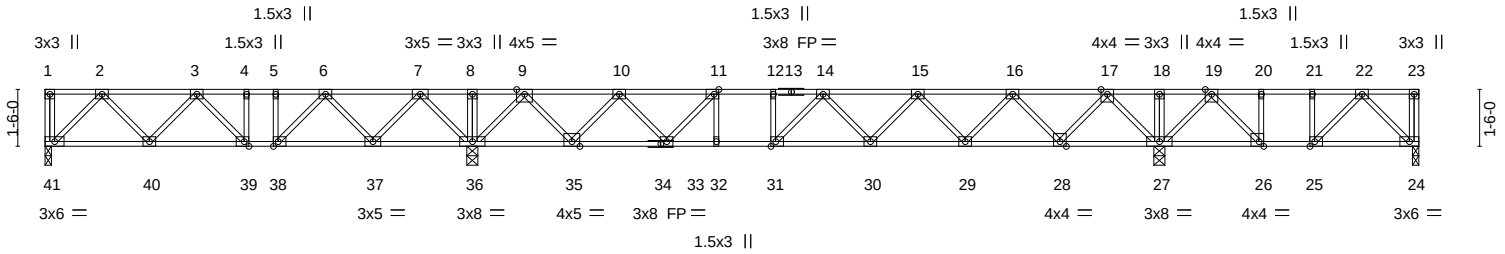
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F56	Floor	5	1	I49822000
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:01 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-2mM1wqvbx8xuxOzK1c7Dgdrd6Fmav2ScvcbQGQztN5G

1-3-0 0-7-12 1-4-8 1-2-10

Scale = 1:60.8



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

11-3-4 29-4-12 36-2-14
11-3-4 18-1-8 6-10-2

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.27	30-31	>796	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-34: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 36=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-138(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=597(LC 5), 24=315(LC 5), 36=2186(LC 16), 27=1922(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-792/0, 3-4=-947/261, 4-5=-947/261, 5-6=-947/261, 6-7=-237/870, 7-8=0/1933, 8-9=0/1933, 9-10=-267/233, 10-11=-1518/0, 11-12=-2116/0, 12-14=-2116/0, 14-15=-2214/0, 15-16=-1582/0, 16-17=-421/0, 17-18=0/1560, 18-19=0/1560, 19-20=-230/539, 20-21=-230/539, 21-22=-230/539
BOT CHORD 40-41=0/542, 39-40=-54/1005, 38-39=-261/947, 37-38=-553/694, 36-37=-1192/0, 35-36=-785/0, 33-35=0/1019, 32-33=0/2116, 31-32=0/2116, 30-31=0/2326, 29-30=0/2032, 28-29=0/1134, 27-28=-490/0, 26-27=-1049/0, 25-26=-539/230
WEBS 2-41=-766/0, 2-40=-45/372, 3-40=-317/109, 3-39=-412/0, 7-36=-1261/0, 7-37=0/844, 6-37=-842/0, 6-38=0/659, 5-38=-317/0, 9-36=-1624/0, 9-35=0/1199, 10-35=-1155/0, 10-33=0/788, 11-33=-929/0, 11-32=0/312, 17-27=-1544/0, 17-28=0/1160, 16-28=-1107/0, 16-29=0/685, 15-29=-674/0, 15-30=0/275, 14-31=-475/17, 22-24=-331/253, 22-25=-521/0, 19-27=-933/0, 19-26=0/903, 20-26=-472/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 24.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 24.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

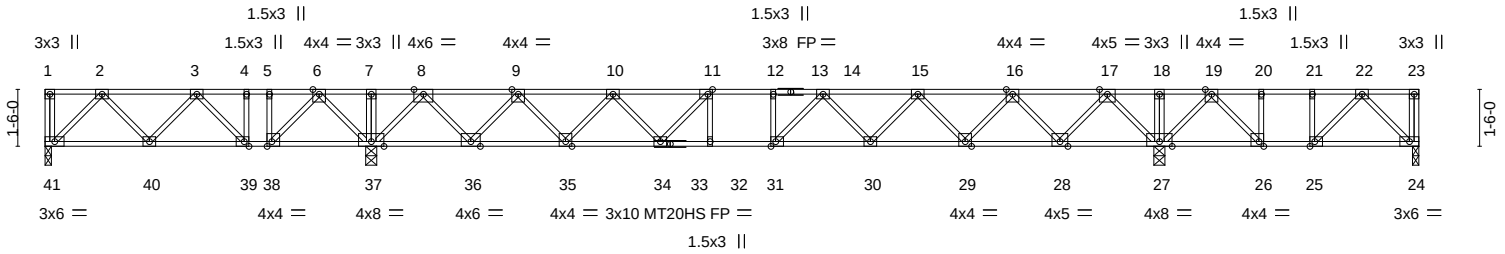
Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F57	Floor	3	1	I49822001
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:03 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_8UnKWxrTlBcBh6j819hl2wy03T2NwvvNw4XKJztN5E

1-3-0 0-5-12 1-6-8 1-2-10

Scale = 1:60.8



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

8-7-4 29-4-12 36-2-14
8-7-4 20-9-8 6-10-2

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.20	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	30-31	>773	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 13-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 24-33: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 37=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-198(LC 6), 24=-218(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=373(LC 5), 24=279(LC 5), 37=2385(LC 16), 27=2145(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-370/494, 3-4=-67/1334, 4-5=-67/1334, 5-6=-67/1334, 6-7=0/2614, 7-8=0/2614, 8-9=0/304, 9-10=-1402/0, 10-11=-2423/0, 11-12=-2846/0, 12-14=-2846/0, 14-15=-2607/0, 15-16=-1749/0, 16-17=-312/0, 17-18=0/1965, 18-19=0/1965, 19-20=-142/735, 20-21=-142/735, 21-22=-142/735
BOT CHORD 40-41=-221/319, 39-40=-822/375, 38-39=-1334/67, 37-38=-1937/0, 36-37=-1295/0, 35-36=0/735, 34-35=0/2042, 32-34=0/2846, 31-32=0/2846, 30-31=0/2858, 29-30=0/2314, 28-29=0/1171, 27-28=-738/0, 26-27=-1365/0, 25-26=-735/142, 24-25=-257/199
WEBS 6-37=-1242/0, 6-38=0/1168, 5-38=-589/0, 2-41=-451/313, 2-40=-405/76, 3-40=-7/488, 3-39=-909/0, 4-39=0/411, 8-37=-1866/0, 8-36=0/1472, 9-36=-1432/0, 9-35=0/1006, 10-35=-967/0, 10-34=0/595, 11-34=-724/0, 17-27=-1742/0, 17-28=0/1353, 16-28=-1300/0, 16-29=0/879, 15-29=-860/0, 15-30=0/454, 14-30=-386/0, 14-31=-246/297, 22-24=-281/364, 22-25=-691/0, 21-25=0/348, 19-27=-1039/0, 19-26=0/1076, 20-26=-571/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 24.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 41 and 218 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F66	Floor	4	1	I49822002
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-OjAwzXzklgaA29rIq9jONgYcHGZAaM7L3tlBxeztN5B

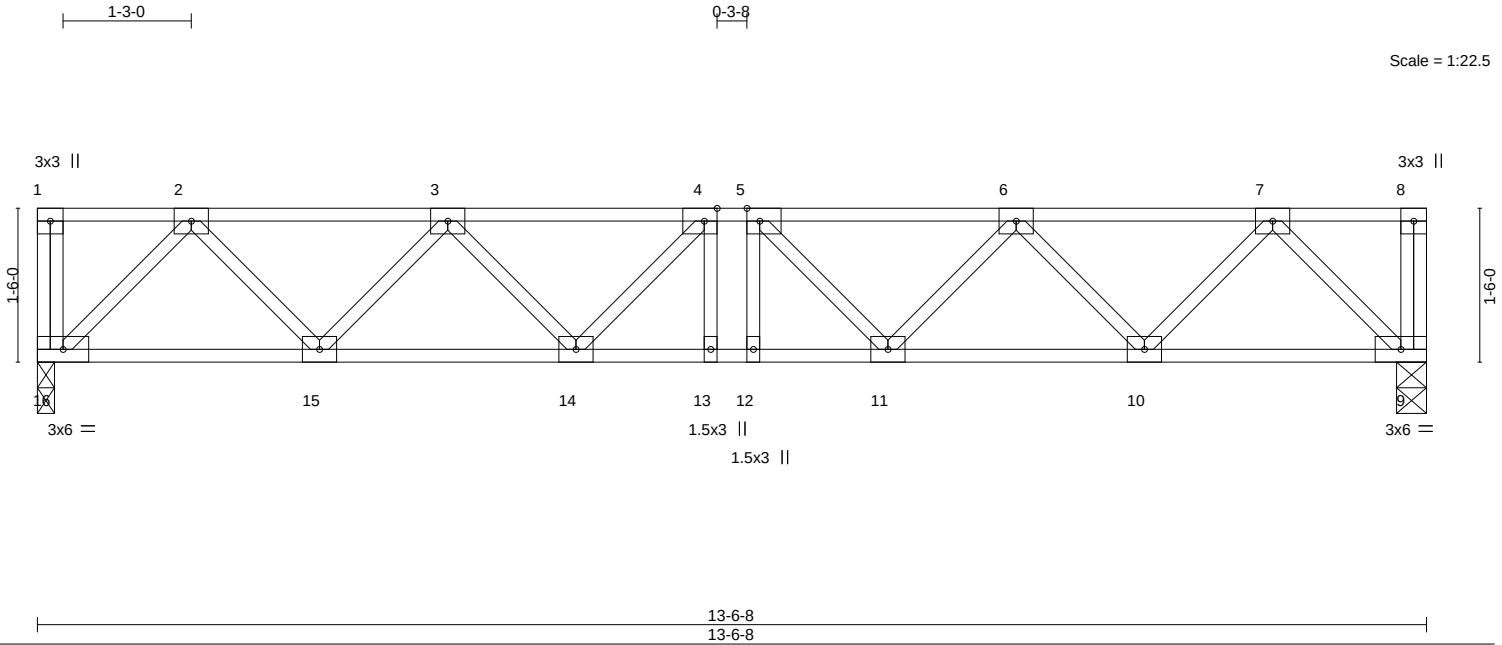

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.07	13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.11	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=864(LC 1), 9=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1299/0, 3-4=-1948/0, 4-5=-2116/0, 5-6=-1948/0, 6-7=-1299/0
BOT CHORD 15-16=0/803, 14-15=0/1770, 13-14=0/2116, 12-13=0/2116, 11-12=0/2116, 10-11=0/1770, 9-10=0/803
WEBS 2-16=-1135/0, 2-15=0/738, 3-15=-699/0, 3-14=0/309, 4-14=-326/0, 7-9=-1135/0, 7-10=0/738, 6-10=-699/0, 6-11=0/309, 5-11=-326/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F68	FLOOR	3	1	I49822003
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:07 2022 Page 1
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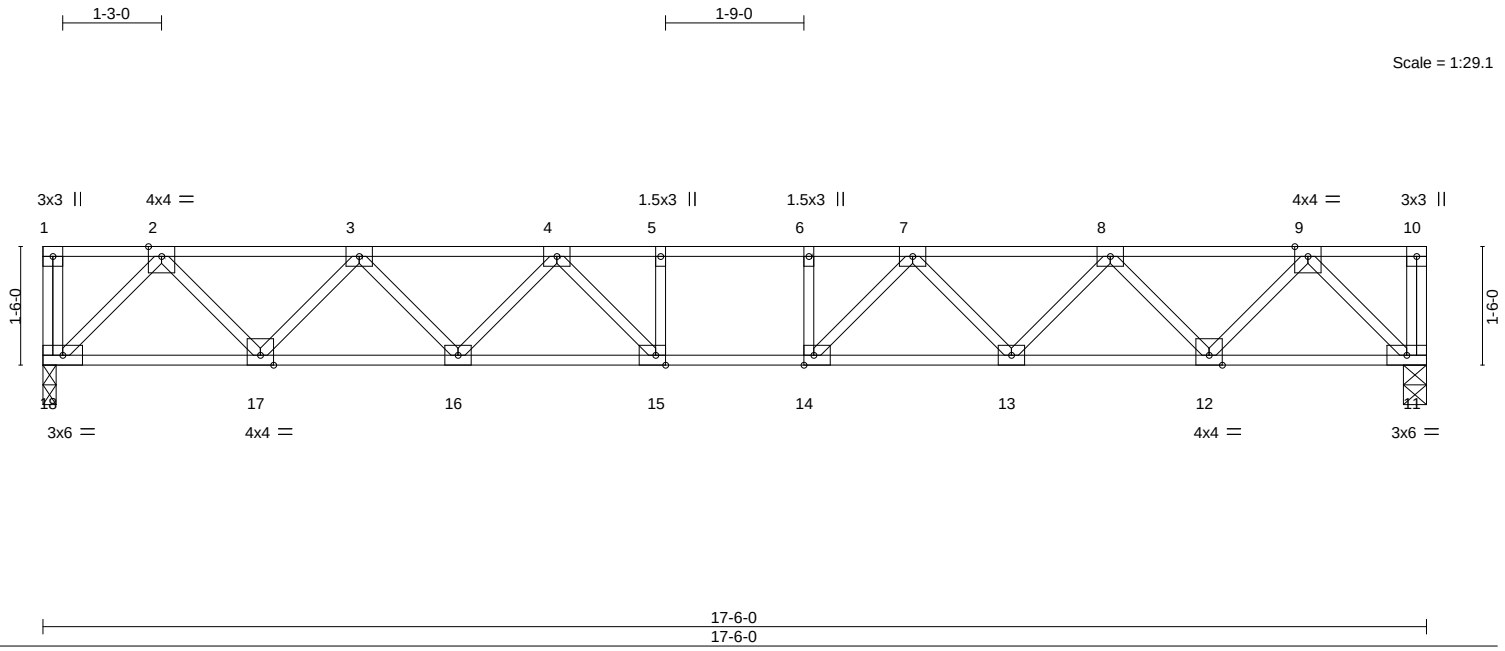

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.16	14-15	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.27	14-15	>774	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 95 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 11=0-3-8
Max Grav 18=1121(LC 1), 11=1121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1789/0, 3-4=-2906/0, 4-5=-3486/0, 5-6=-3486/0, 6-7=-3486/0, 7-8=-2906/0, 8-9=-1789/0
BOT CHORD 17-18=0/1059, 16-17=0/2493, 15-16=0/3296, 14-15=0/3486, 13-14=0/3296, 12-13=0/2493, 11-12=0/1059
WEBS 2-18=-1498/0, 2-17=0/1085, 3-17=-1047/0, 3-16=0/614, 4-16=-581/0, 4-15=-43/551, 5-15=-289/0, 9-11=-1498/0, 9-12=0/1085, 8-12=-1047/0, 8-13=0/614, 7-13=-581/0, 7-14=-43/551, 6-14=-289/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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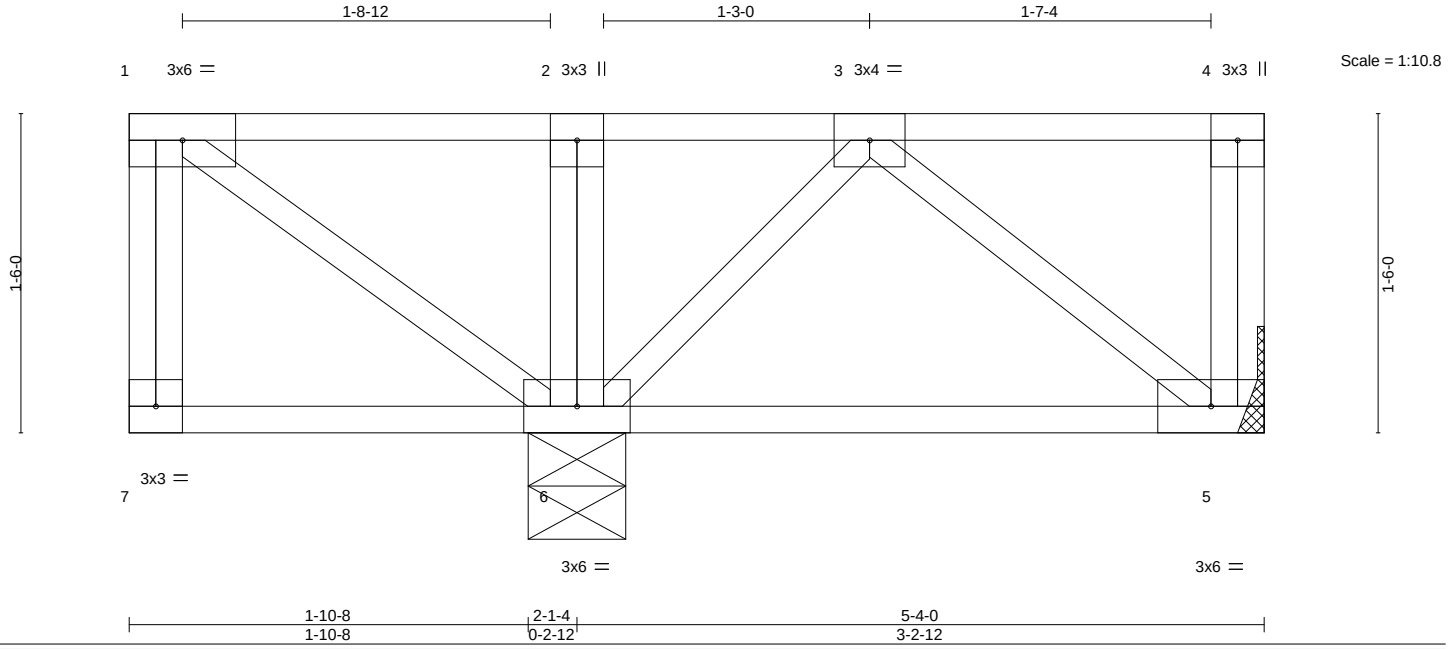
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F70	Floor	5	1	I49822004
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:08 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-L6HgOD?_HHquHT?gxalsS5euq4MD2l2eWBnI?WztN59



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6,3-5: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-383(LC 3)
Max Grav 5=25(LC 4), 6=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-536/0
WEBS 1-6=-1220/0, 3-6=-772/0, 3-5=0/684

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 383 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	F70A	Floor	1	1	I49822005
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:09 2022 Page 1
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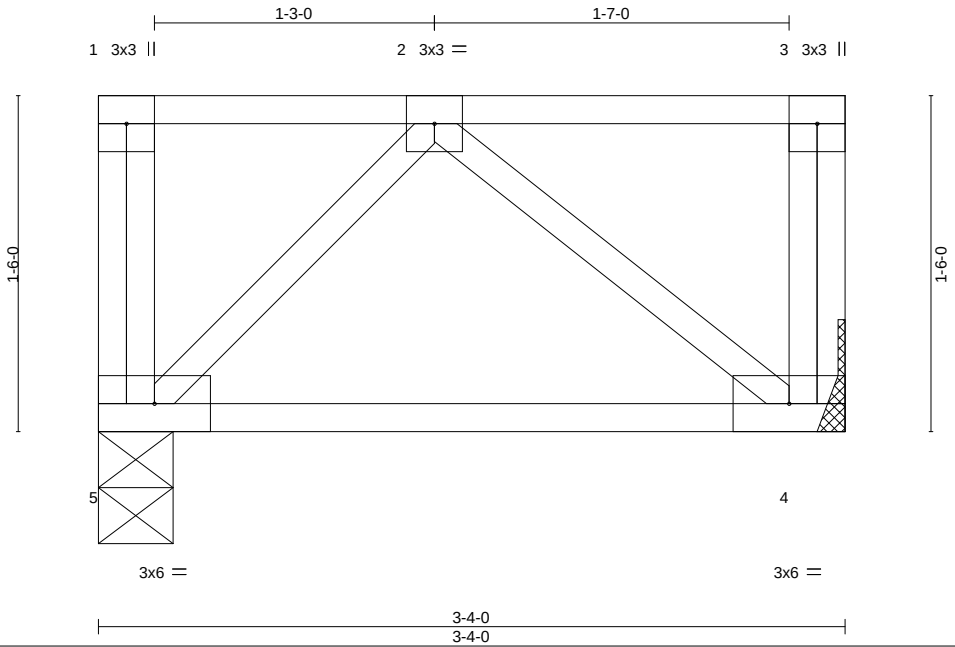

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 2-4: 2x4 SP No.2(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=200(LC 1), 4=200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	FGR	FLOOR GIRDER	8	1	I49822006
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:11 2022 Page 1
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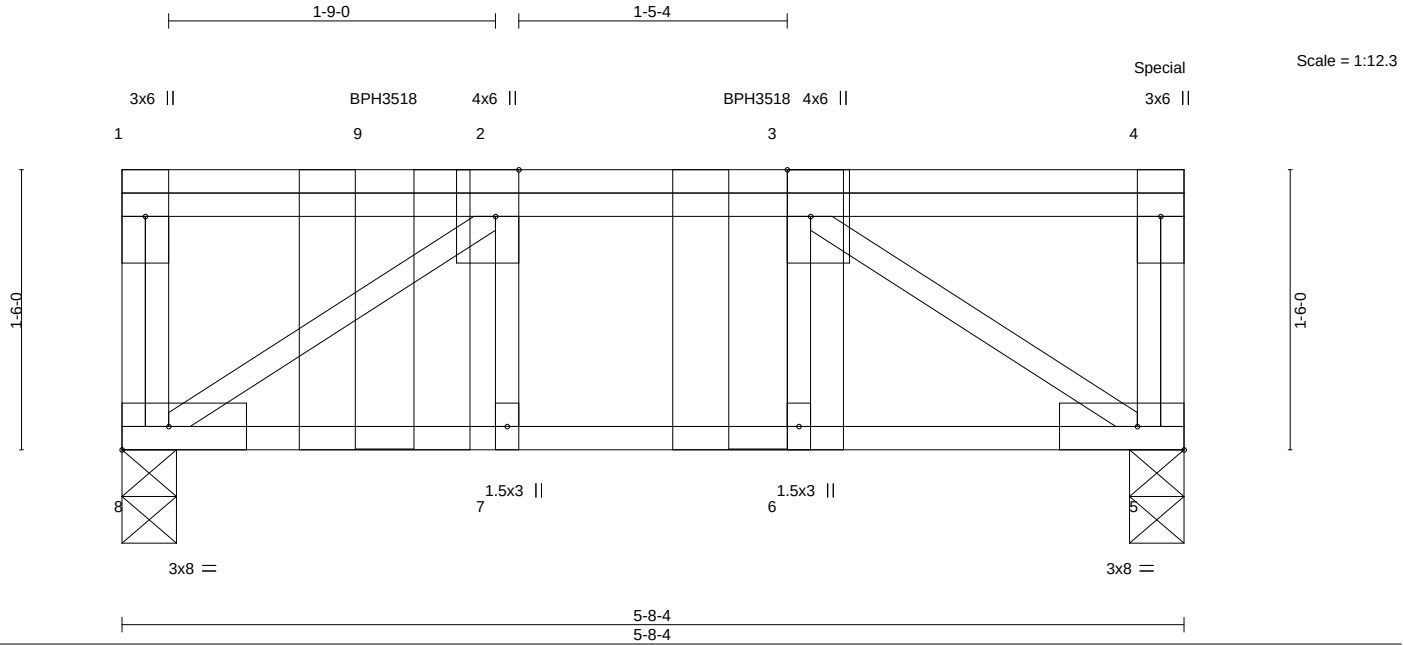

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.04	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=1548(LC 1), 5=2300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-480/0, 4-5=-1229/0, 2-3=-1614/0
BOT CHORD 7-8=0/1614, 6-7=0/1614, 5-6=0/1614
WEBS 3-5=-1950/0, 2-8=-1950/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-14 from the left end to 3-4-14 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 864 lb down and 111 lb up at 5-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 4=-818(B) 3=-278(B) 9=-278(B)

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW1	Floor Supported Gable	1	1	I49822007
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:13 2022 Page 1
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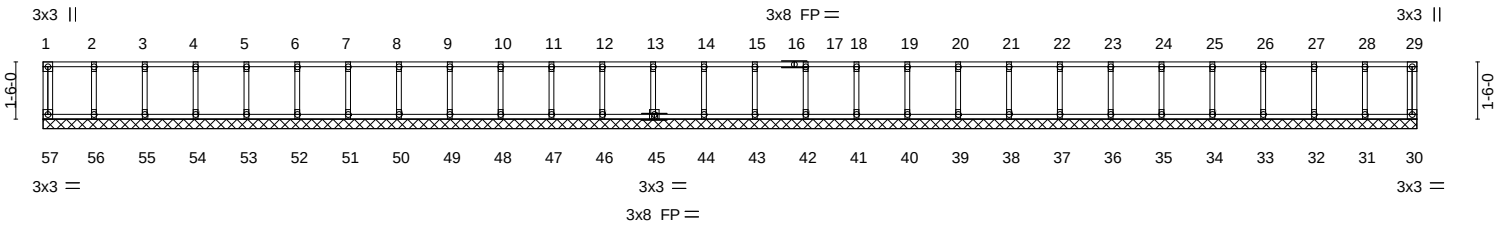

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0	29-4-0	30-8-0	32-0-0	33-4-0	34-8-0	36-0-6
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-6

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 163 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-0-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 57, 30, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW1A	Floor Supported Gable	1	1	I49822008 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:17 2022 Page 1
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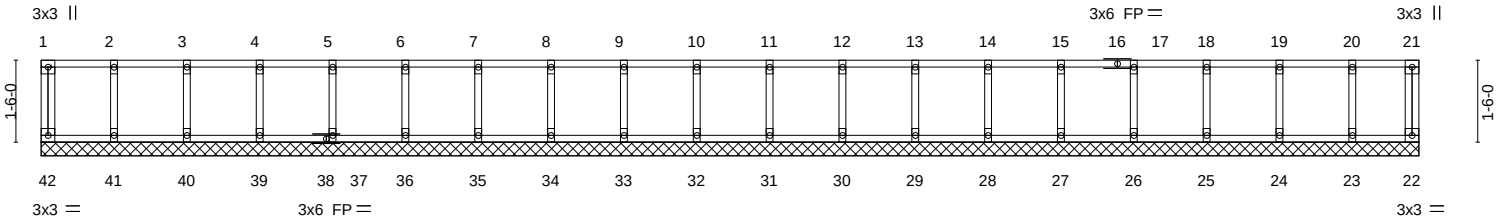

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-2-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	22	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 116 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW2	Floor Supported Gable	1	1	I49822009 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:17 2022 Page 1
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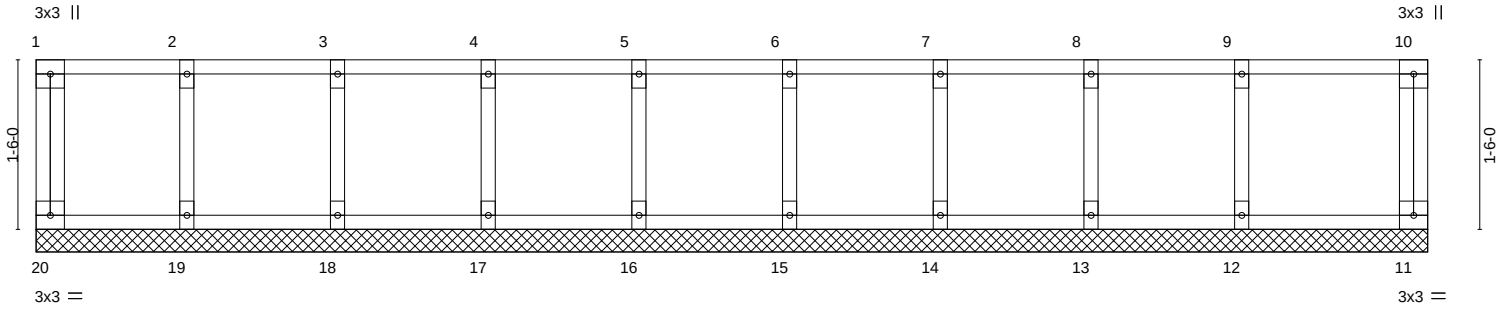

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-3-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-7-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW3	Floor Supported Gable	1	1	I49822010
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:18 2022 Page 1
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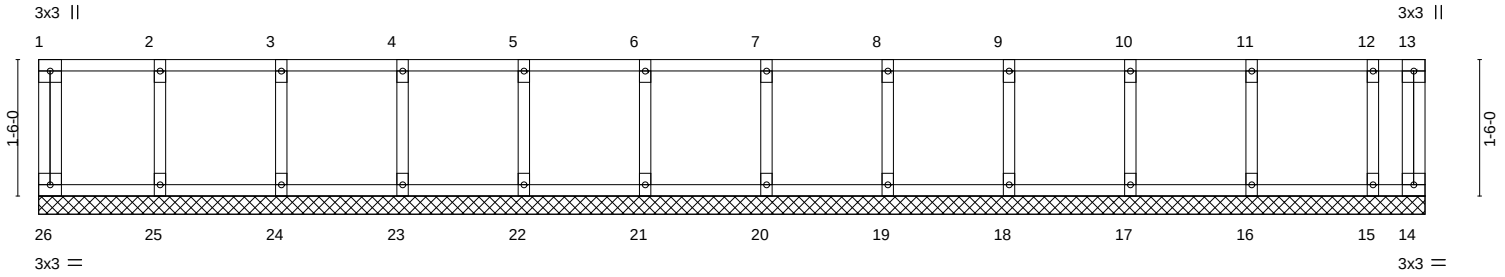

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-2-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-14

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-2-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW4	Floor Supported Gable	1	1	I49822011
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:19 2022 Page 1
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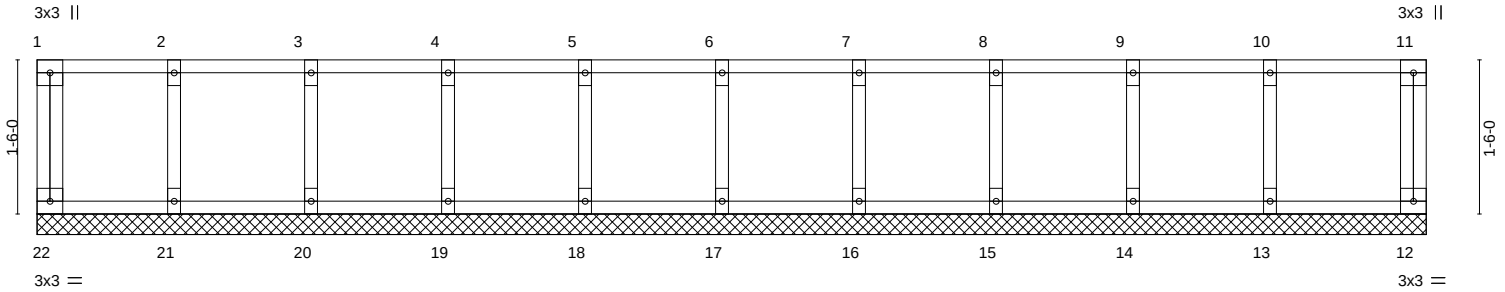

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1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 64 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW5	Floor Supported Gable	1	1	I49822012
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:20 2022 Page 1
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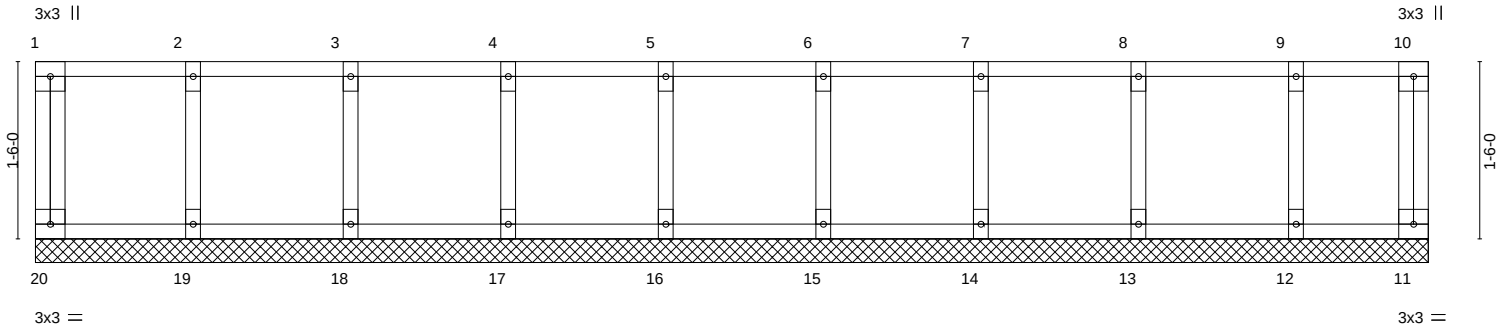

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-9-7
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-7

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-9-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW6	Floor Supported Gable	2	1	I49822013 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:21 2022 Page 1
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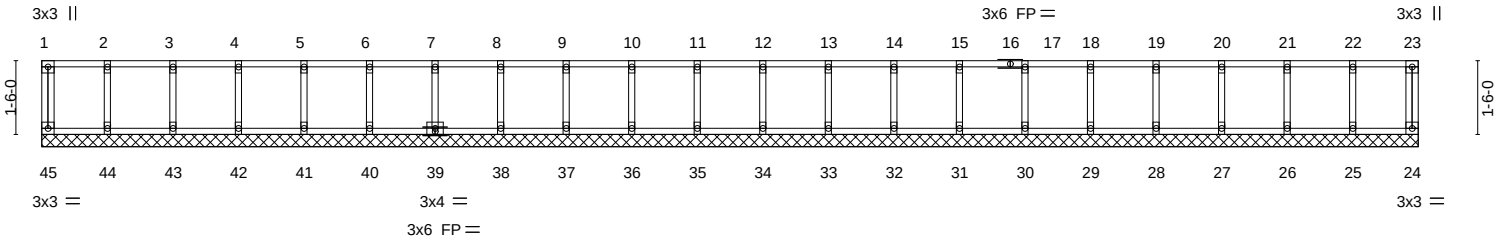

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 128 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 45, 24, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW7	Floor Supported Gable	1	1	I49822014
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:21 2022 Page 1
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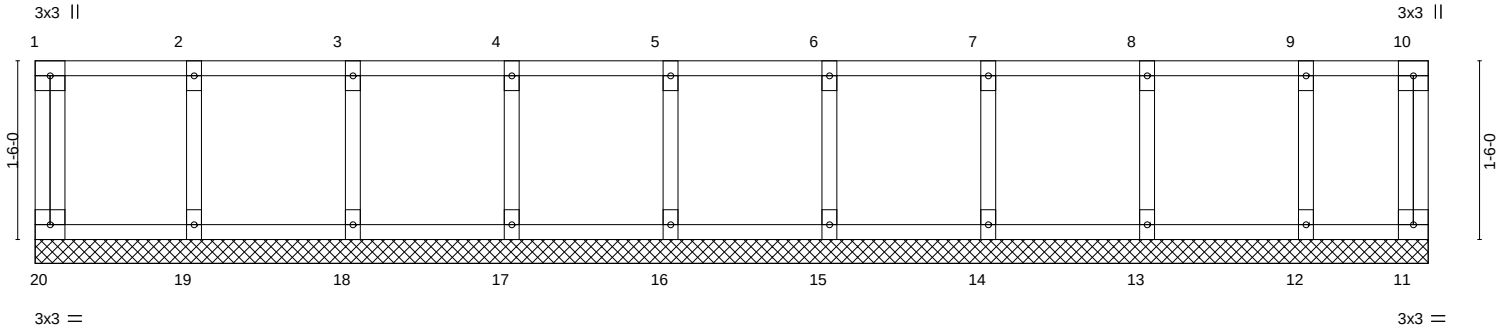

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-8-5
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-5

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-5.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW8	Floor Supported Gable	1	1	I49822015
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:22 2022 Page 1
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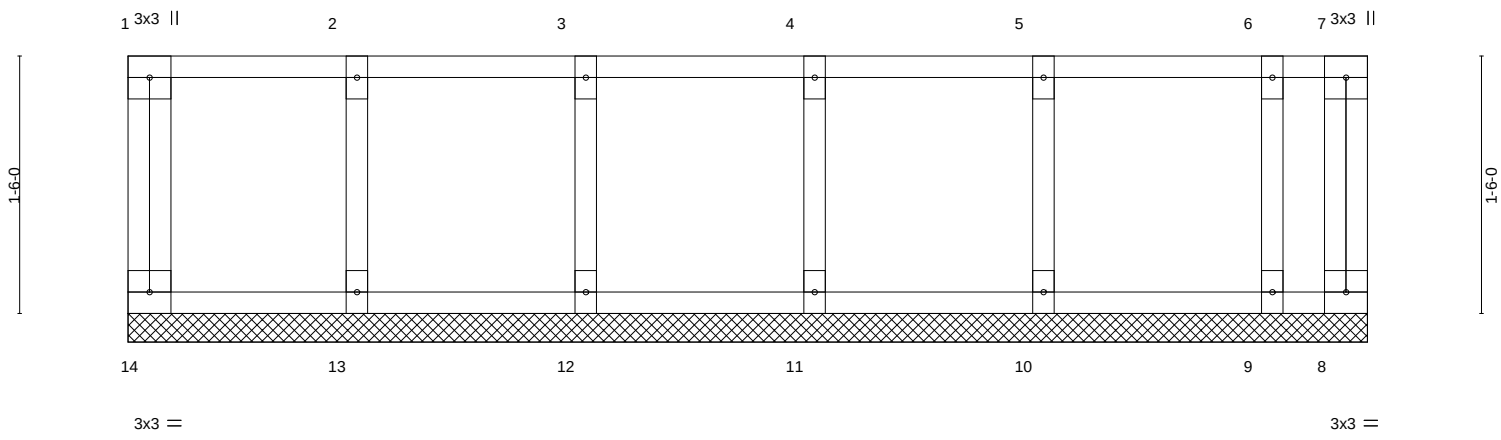

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	7-2-10
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-10

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW9	GABLE	1	1	I49822016
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:24 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-tBFkkhB0WCrdCwDltx2c6TIlkXq6oab?Chf8ZbztN4v

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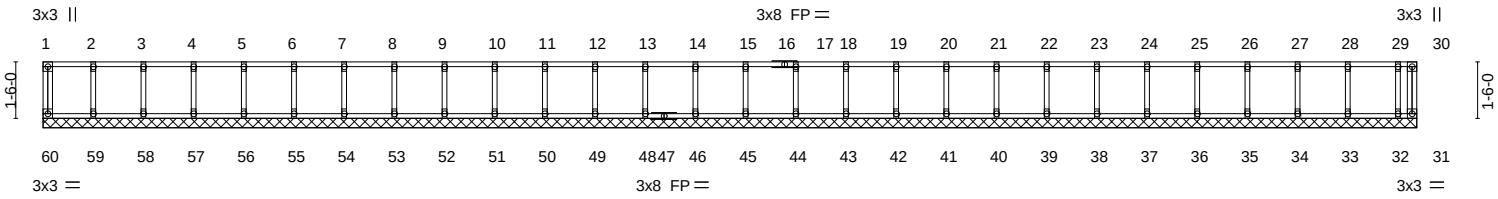

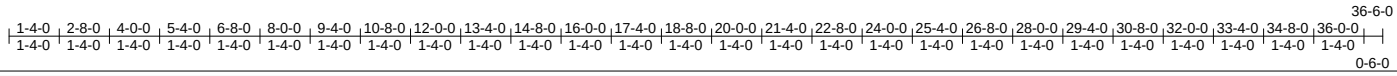

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW10	GABLE	1	1	I49822017
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9GeyeH3lt7a2?OSqIrsGiMu29VQnS35Wv7EcDAztN53

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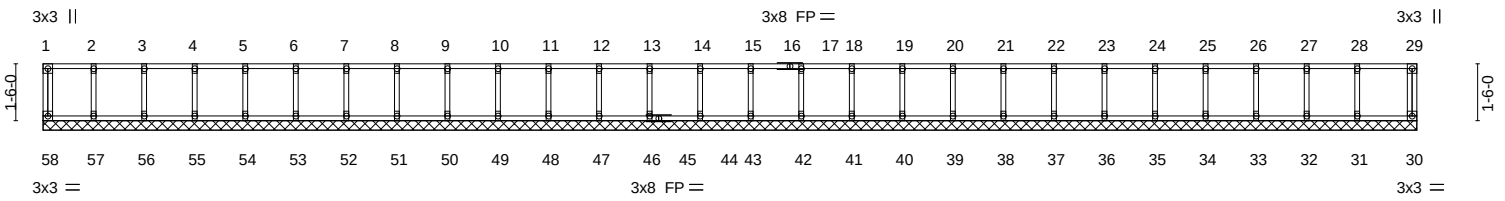

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0	29-4-0	30-8-0	32-0-0	33-4-0	34-8-0	36-2-14
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-14

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 164 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-2-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 21,2022

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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW12	Floor Supported Gable	1	1	I49822018
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:15 2022 Page 1
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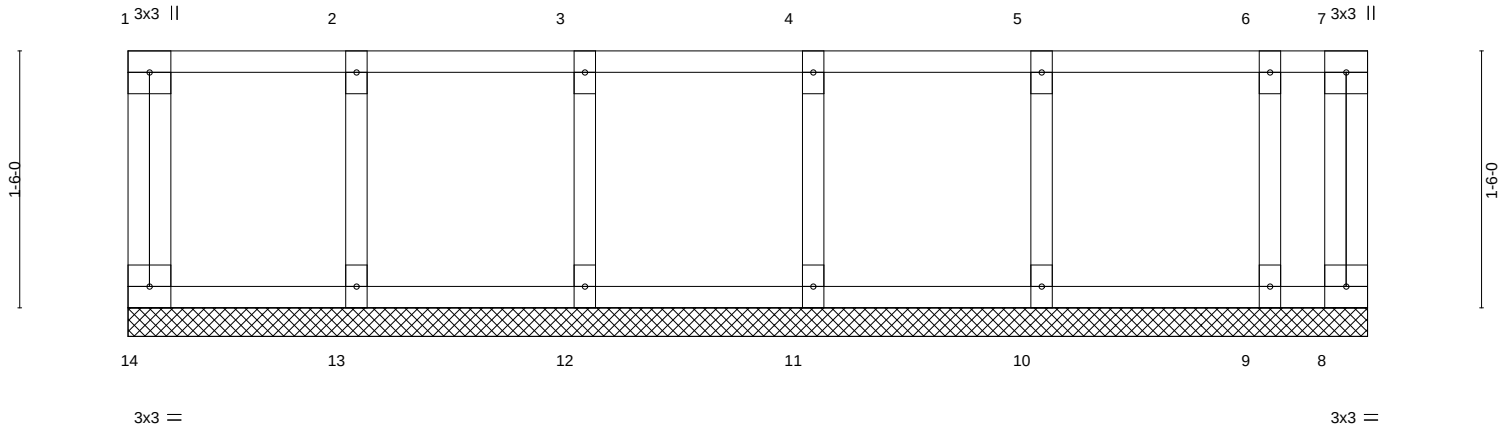

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-2-13.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
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Chesterfield, MO 63017

Building 2 Area B Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA B 3RD LEVEL)
PRYOR-F3B	KW13	GABLE	1	1	I49822019
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Jan 20 19:09:16 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-6emi3y5?PlqlEhcDPFuknnzOlI6DwycpMRjjH2ztN51

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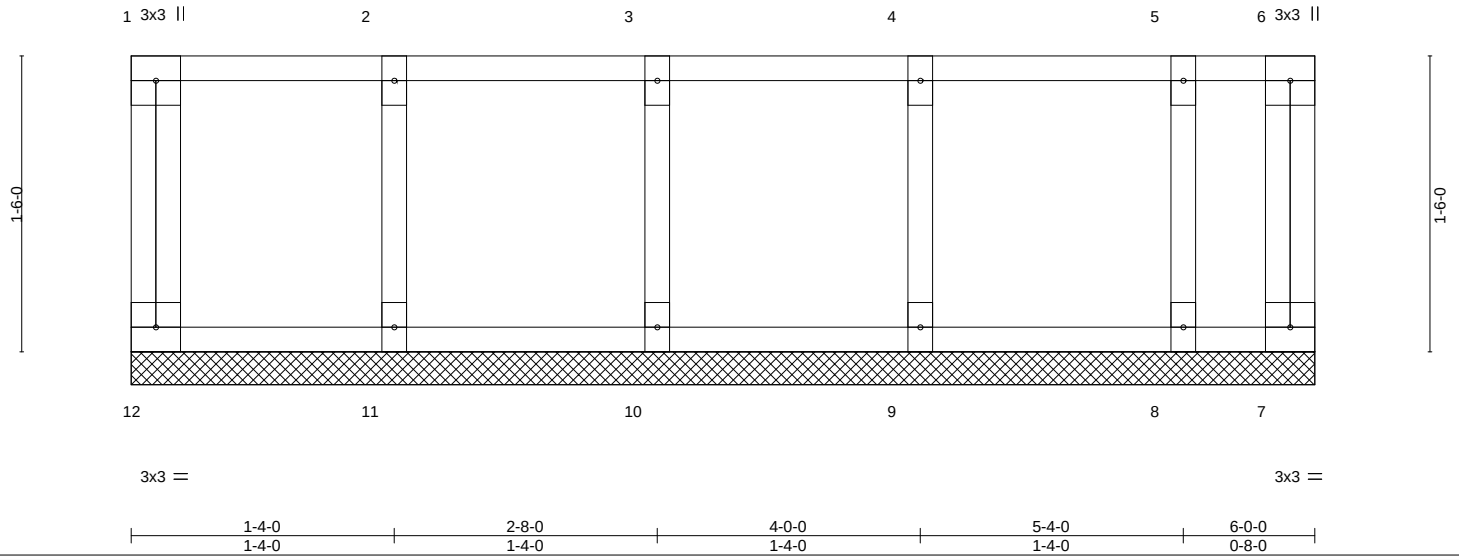

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 33 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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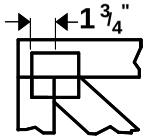
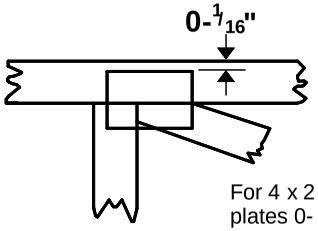
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

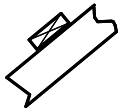
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

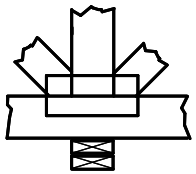
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

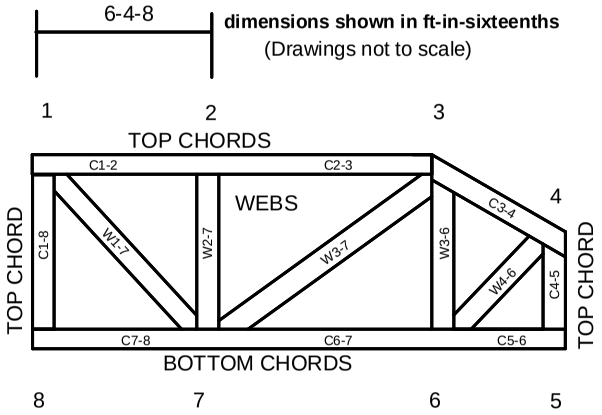


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area B Level 3

Building 2 Area C Level 3

B D C

Structural Engineers – Since 1957

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Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: January 12, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-13 Revision 0: Building 2 - Area C - 3rd Floor Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-F3C

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 2/2/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

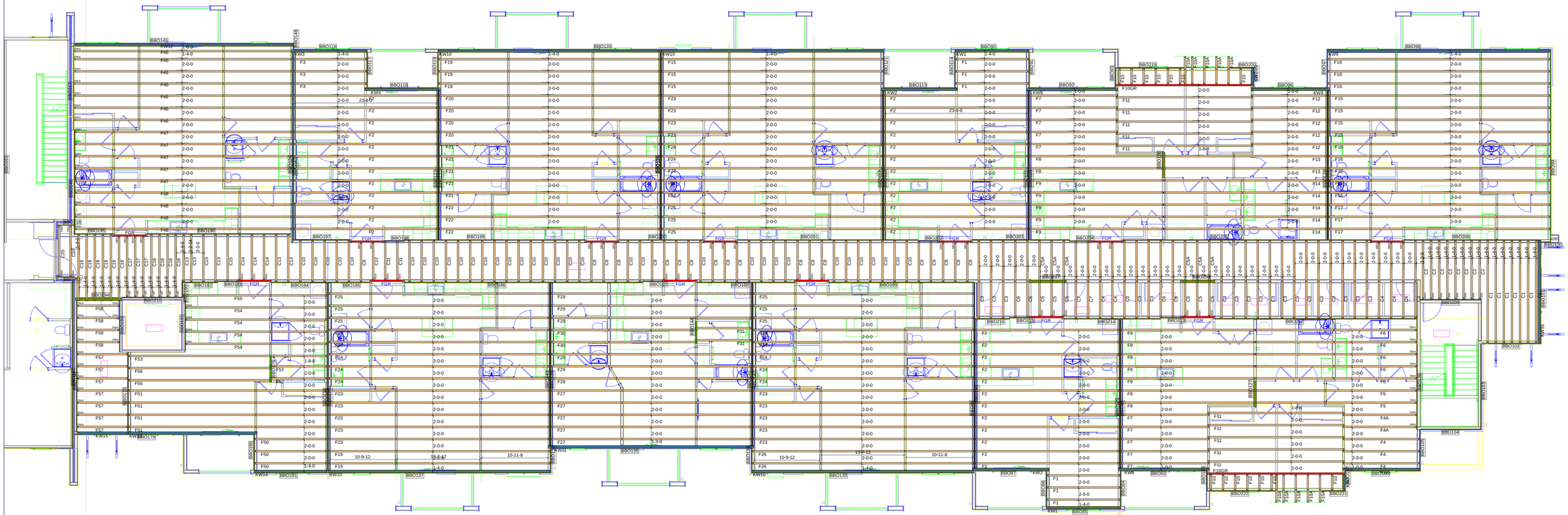
SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE 01/12/2022 BY cb



TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area C
3rd Level

Fax:
Sales:
Date:
Telephone:
Contact:
Drawn By:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

Building 2 Area C Level 3

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE
WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR
CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 01/12/2022 *BY:* cb

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-F3C
WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I49618534 thru I49618617

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 2/2/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

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CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

January 11,2022

Johnson, Andrew ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

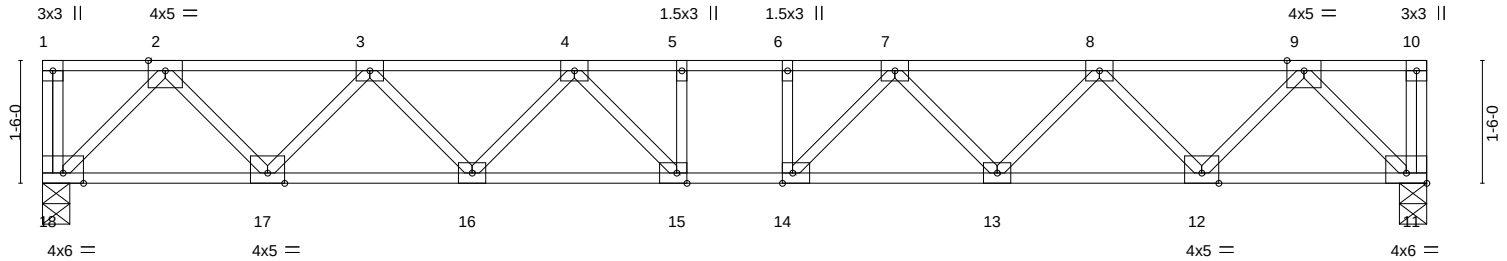
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C1	Floor	7	1	I49618534
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:41 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-h6D9btfK?3zeucPk1E5S7gK8A5PDFTOGFg9?Zpzwnwu

1-3-0 1-2-0

Scale = 1:28.2



16-11-0
16-11-0

Plate Offsets (X,Y)-- [11:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.24	14-15	>830	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.30	14-15	>665	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 93 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 11=0-4-0
Max Grav 18=1389(LC 1), 11=1389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2196/0, 3-4=-3542/0, 4-5=-4183/0, 5-6=-4183/0, 6-7=-4183/0, 7-8=-3542/0, 8-9=-2196/0
BOT CHORD 17-18=0/1314, 16-17=0/3062, 15-16=0/4007, 14-15=0/4183, 13-14=0/4007, 12-13=0/3062, 11-12=0/1314
WEBS 2-18=-1858/0, 2-17=0/1312, 3-17=-1288/0, 3-16=0/714, 4-16=-691/0, 4-15=-224/667, 5-15=-337/40, 9-11=-1858/0, 9-12=0/1312, 8-12=-1288/0, 8-13=0/714, 7-13=-691/0, 7-14=-224/667, 6-14=-337/40

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

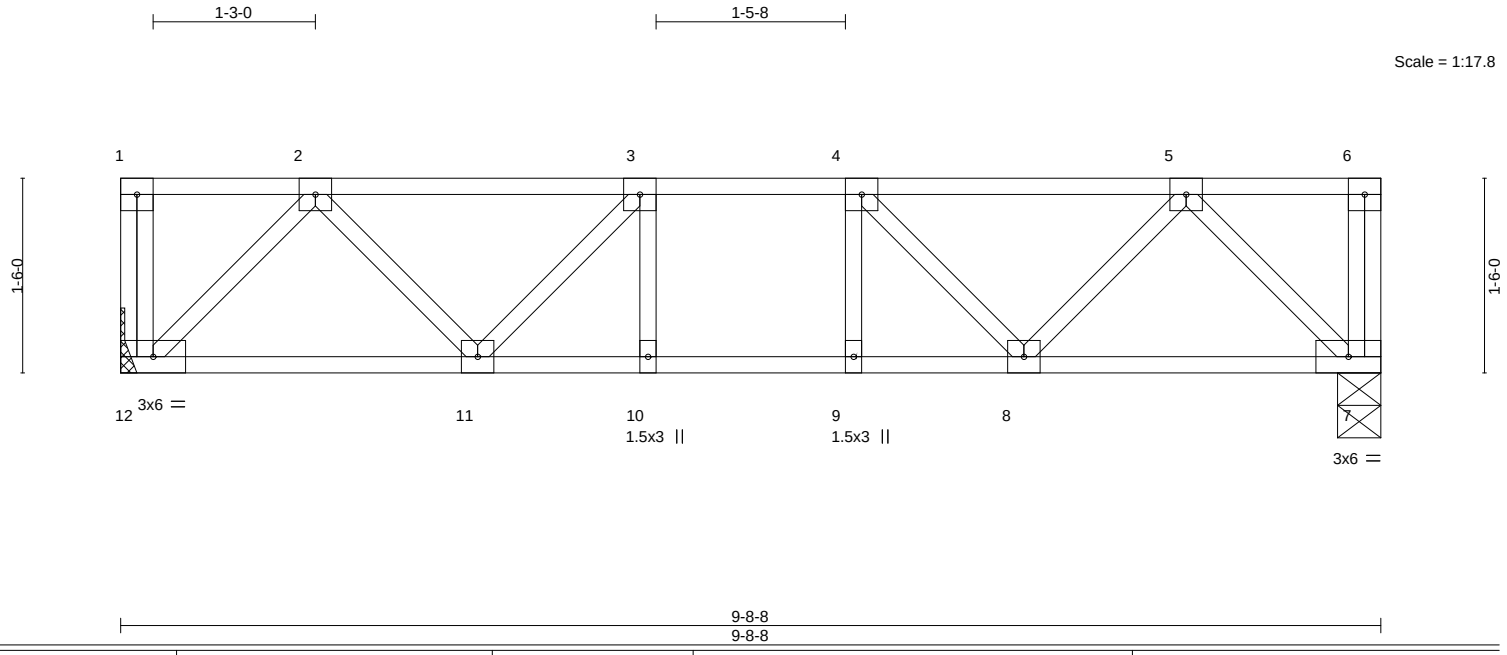
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C2	Floor	8	1	I49618535
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-O1qxhHnbf7DE59AfdLHoXnkt?7s?b4mkYEaWwEzwnwk



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.07	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-4-0
Max Grav 12=788(LC 1), 7=788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1042/0, 3-4=-1360/0, 4-5=-1042/0
BOT CHORD	11-12=0/725, 10-11=0/1360, 9-10=0/1360, 8-9=0/1360, 7-8=0/725
WEBS	2-12=-1025/0, 2-11=0/472, 3-11=-500/0, 5-7=-1025/0, 5-8=0/472, 4-8=-500/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C3	FLOOR	20	1	I49618536
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:52 2022 Page 1
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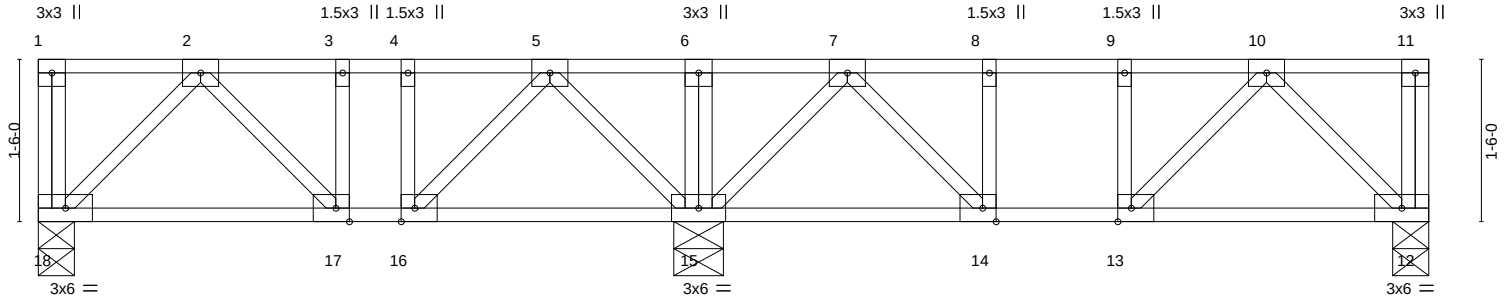

6-1-4 12-10-4
6-1-4 6-9-0

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 78 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-4-0, 15=0-5-8
Max Grav 18=895(LC 10), 12=942(LC 7), 15=2068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-979/0, 3-4=-979/0, 4-5=-979/0, 5-6=-20/612, 6-7=-20/612, 7-8=-1056/0, 8-9=-1056/0, 9-10=-1056/0
BOT CHORD 17-18=0/725, 16-17=0/979, 15-16=-88/715, 14-15=-36/619, 13-14=0/1056, 12-13=0/769
WEBS 6-15=-432/0, 2-18=-1026/0, 2-17=-27/367, 5-15=-1164/0, 5-16=0/639, 4-16=-398/0, 7-15=-1214/0, 7-14=0/715, 10-12=-1088/0, 10-13=0/416, 9-13=-302/0, 8-14=-464/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C4	Floor	5	1	I49618537
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:53 2022 Page 1
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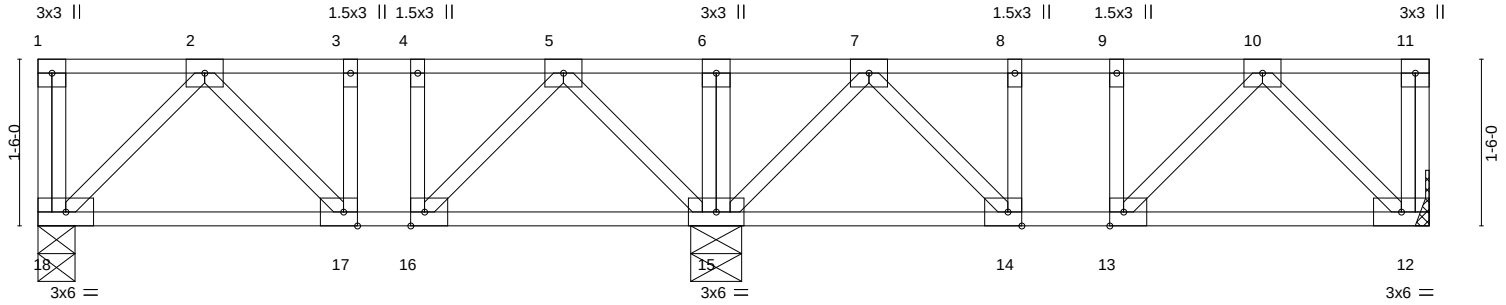

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.04	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=Mechanical, 15=0-5-8
Max Grav 18=864(LC 10), 12=885(LC 7), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-911/0, 3-4=-911/0, 4-5=-911/0, 5-6=0/574, 6-7=0/574, 7-8=-942/0, 8-9=-942/0, 9-10=-942/0
BOT CHORD 17-18=0/694, 16-17=0/911, 15-16=-106/611, 14-15=-78/558, 13-14=0/942, 12-13=0/714
WEBS 6-15=-429/0, 2-18=-982/0, 2-17=-36/315, 5-15=-1153/0, 5-16=0/623, 4-16=-390/0, 7-15=-1174/0, 7-14=0/655, 8-14=-419/0, 10-12=-1010/0, 10-13=-18/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C5	Floor	6	1	I49618538
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:54 2022 Page 1
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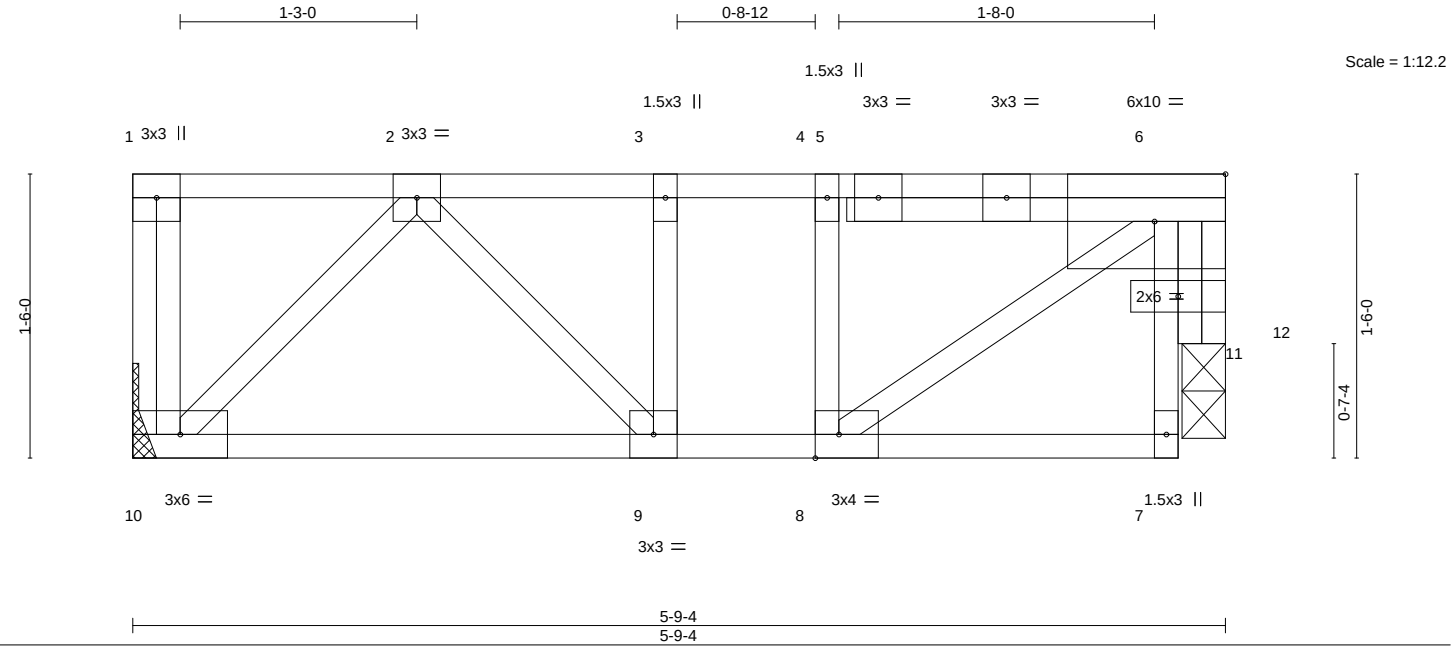

Plate Offsets (X,Y)-- [6:0-4-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 6-8: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 12=0-2-12
Max Grav 10=821(LC 1), 12=779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-806/0, 3-4=-806/0, 4-6=-813/0
BOT CHORD	9-10=0/651, 8-9=0/806
WEBS	2-10=-920/0, 2-9=0/335, 6-8=0/879, 4-8=-466/0, 6-12=-800/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C5A	Floor	6	1	I49618539
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:55 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-Hp3SXfq6iMkfamUQsBLkhdvTLkDTXsBJTsYk3?zwnwg

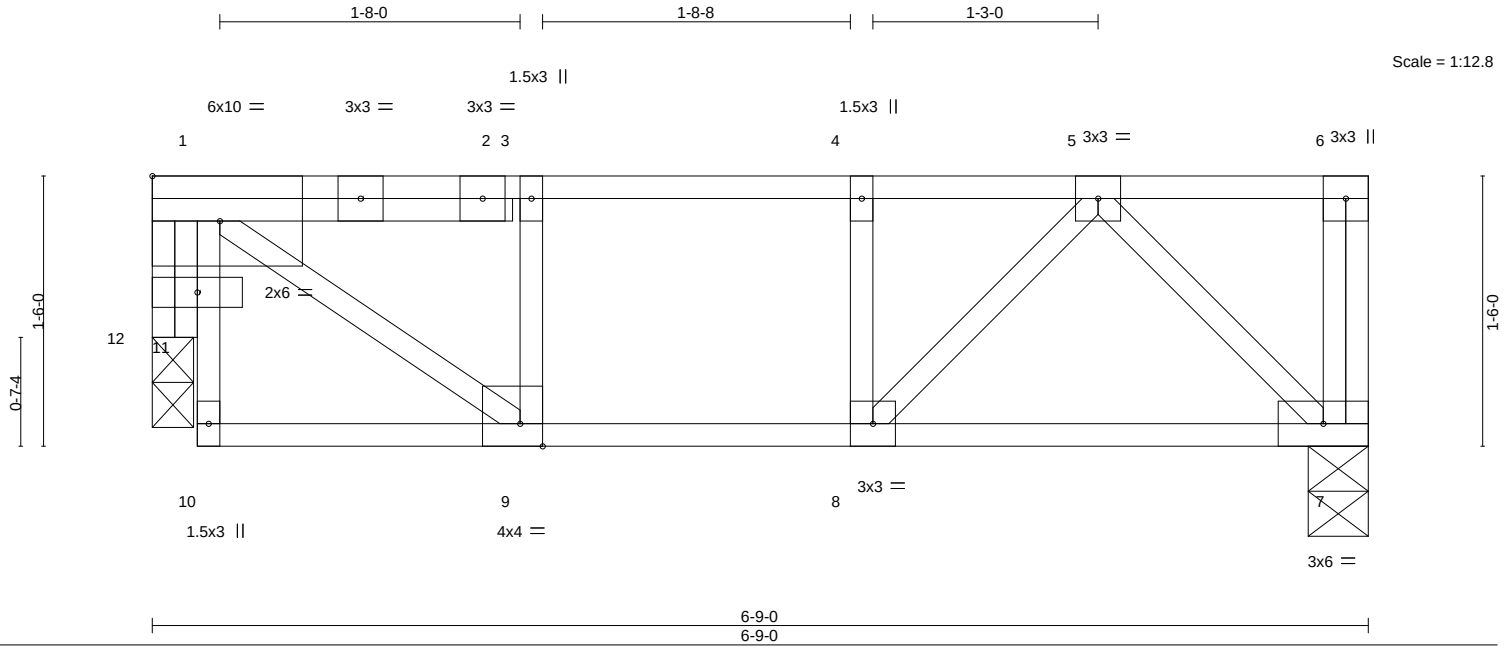

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.08	7-8	>996	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.09	7-8	>852	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-9: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 12=0-2-12
Max Grav 7=968(LC 1), 12=926(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1091/0, 3-4=-1086/0, 4-5=-1086/0
BOT CHORD 8-9=0/1086, 7-8=0/789
WEBS 5-7=-1116/0, 5-8=0/565, 4-8=-360/0, 1-9=0/1227, 3-9=-651/0, 1-12=-945/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C6	Floor	4	1	I49618540
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:56 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-l?dqk?rkTgsWBw3cPutzEqSlL8dEGJbTiWIHbRzwnwf

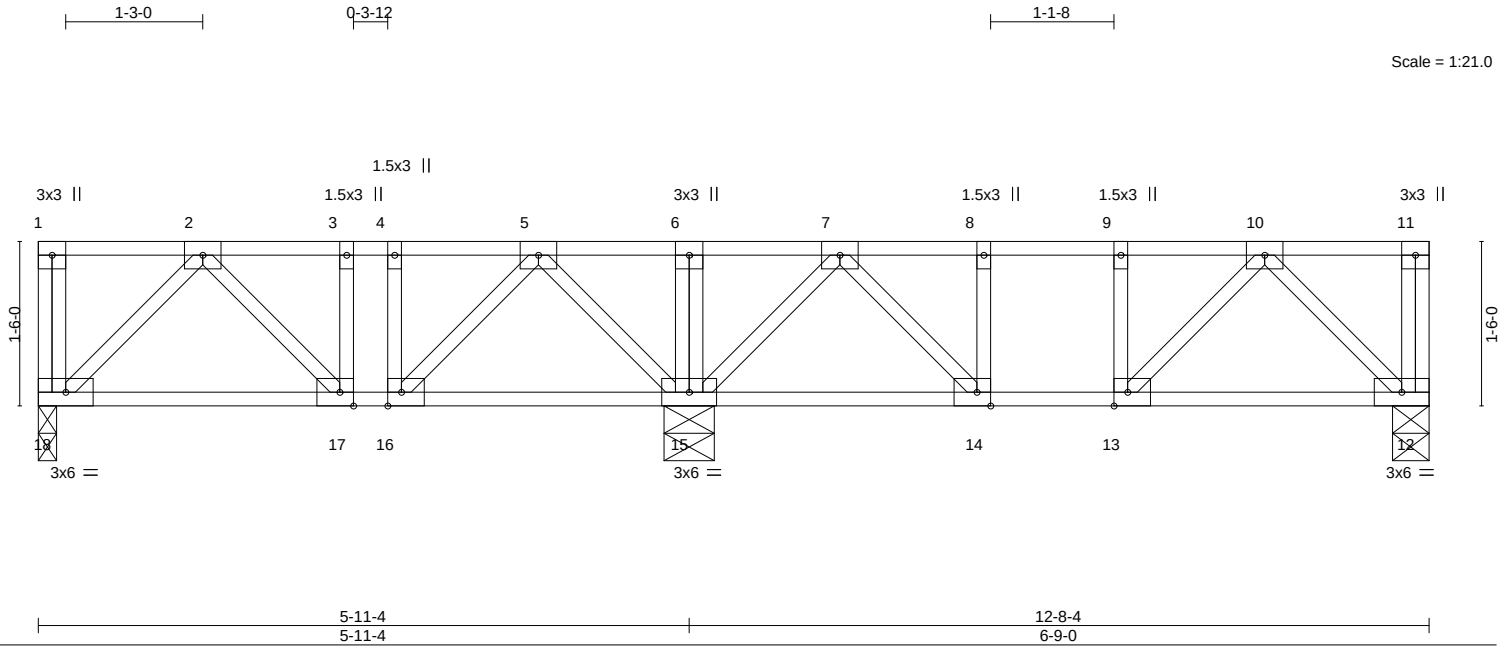

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-2-0, 12=0-4-0, 15=0-5-8
Max Grav 18=874(LC 10), 12=938(LC 4), 15=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-938/0, 3-4=-938/0, 4-5=-938/0, 5-6=-35/634, 6-7=-35/634, 7-8=-1044/0, 8-9=-1044/0, 9-10=-1044/0
BOT CHORD 17-18=0/704, 16-17=0/938, 15-16=-99/701, 14-15=-34/602, 13-14=0/1044, 12-13=0/764
WEBS 6-15=-431/0, 2-18=-995/0, 2-17=-34/339, 5-15=-1142/0, 5-16=0/607, 4-16=-377/0, 7-15=-1206/0, 7-14=0/707, 8-14=-458/0, 10-12=-1081/0, 10-13=0/405, 9-13=-296/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C7	Floor	2	1	I49618541
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:57 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DBBCxLrMEz_Np4epzbOCm2_xeYzv?m0cwA1r7tzwnwe

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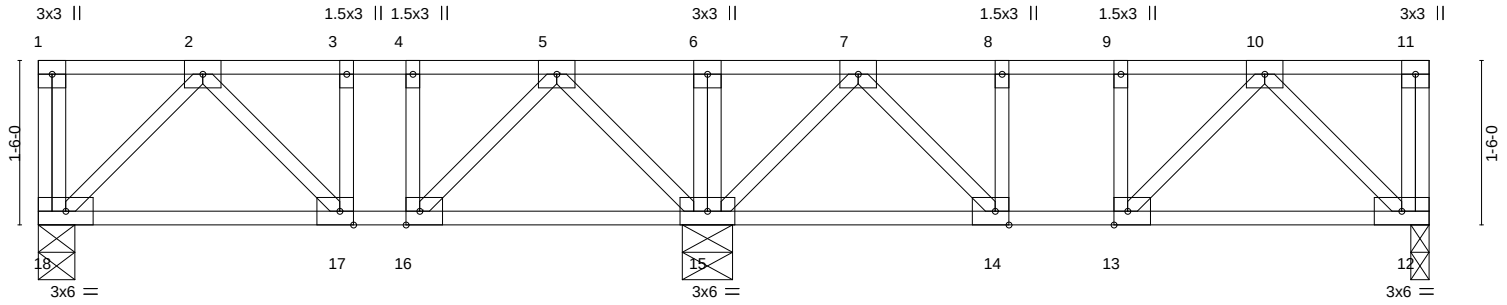

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	125.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-4-0, 12=0-2-0, 15=0-5-8
Max Grav 18=880(LC 10), 12=914(LC 7), 15=2058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-946/0, 3-4=-946/0, 4-5=-946/0, 5-6=0/595, 6-7=0/595, 7-8=-999/0, 8-9=-999/0, 9-10=-999/0
BOT CHORD 17-18=0/710, 16-17=0/946, 15-16=-97/665, 14-15=-57/588, 13-14=0/999, 12-13=0/742
WEBS 6-15=-431/0, 2-18=-1005/0, 2-17=-32/342, 5-15=-1159/0, 5-16=0/632, 4-16=-394/0, 7-15=-1194/0, 7-14=0/684, 8-14=-441/0, 10-12=-1049/0, 10-13=-4/372, 9-13=-271/5

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C8	Floor	16	1	I49618542
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:58 2022 Page 1
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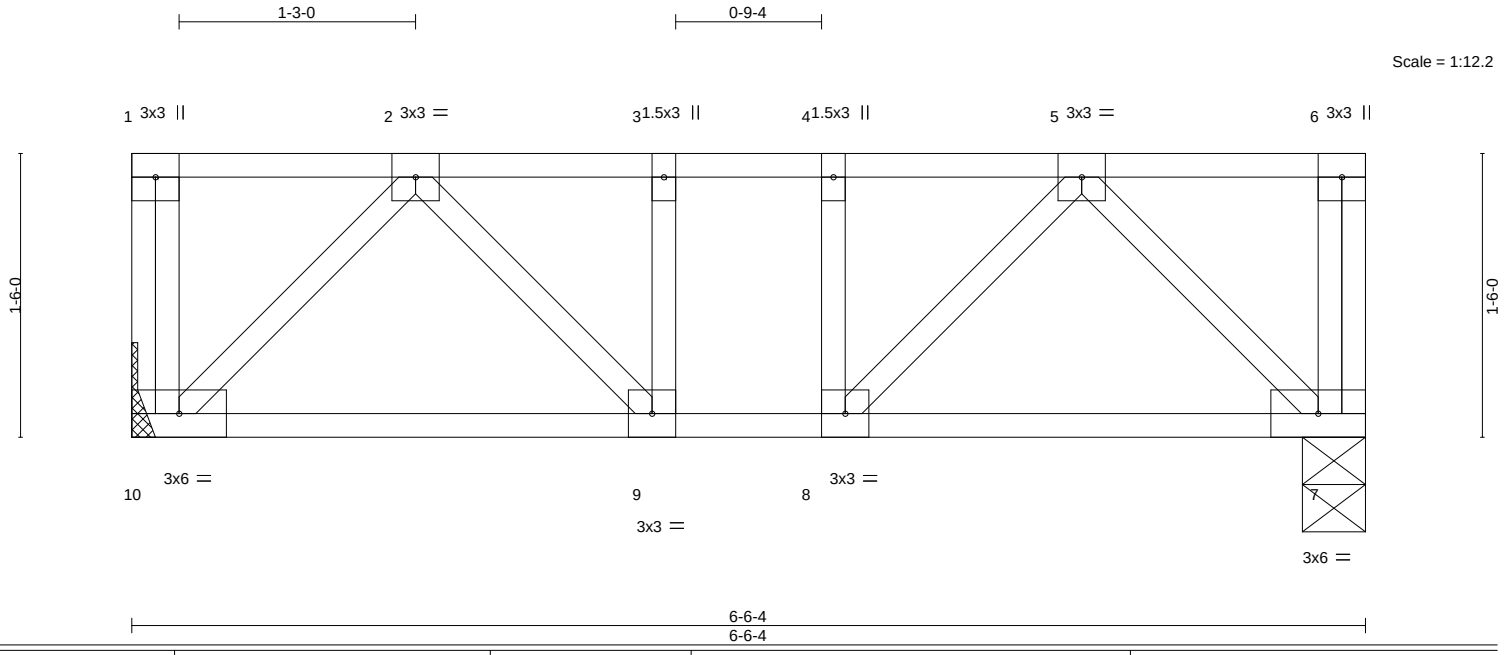

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=784(LC 1), 7=784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-891/0, 3-4=-891/0, 4-5=-891/0
BOT CHORD	9-10=0/641, 8-9=0/891, 7-8=0/641
WEBS	2-10=-906/0, 2-9=0/431, 5-7=-906/0, 5-8=0/431

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C9	Floor	3	1	I49618543
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:59 2022 Page 1
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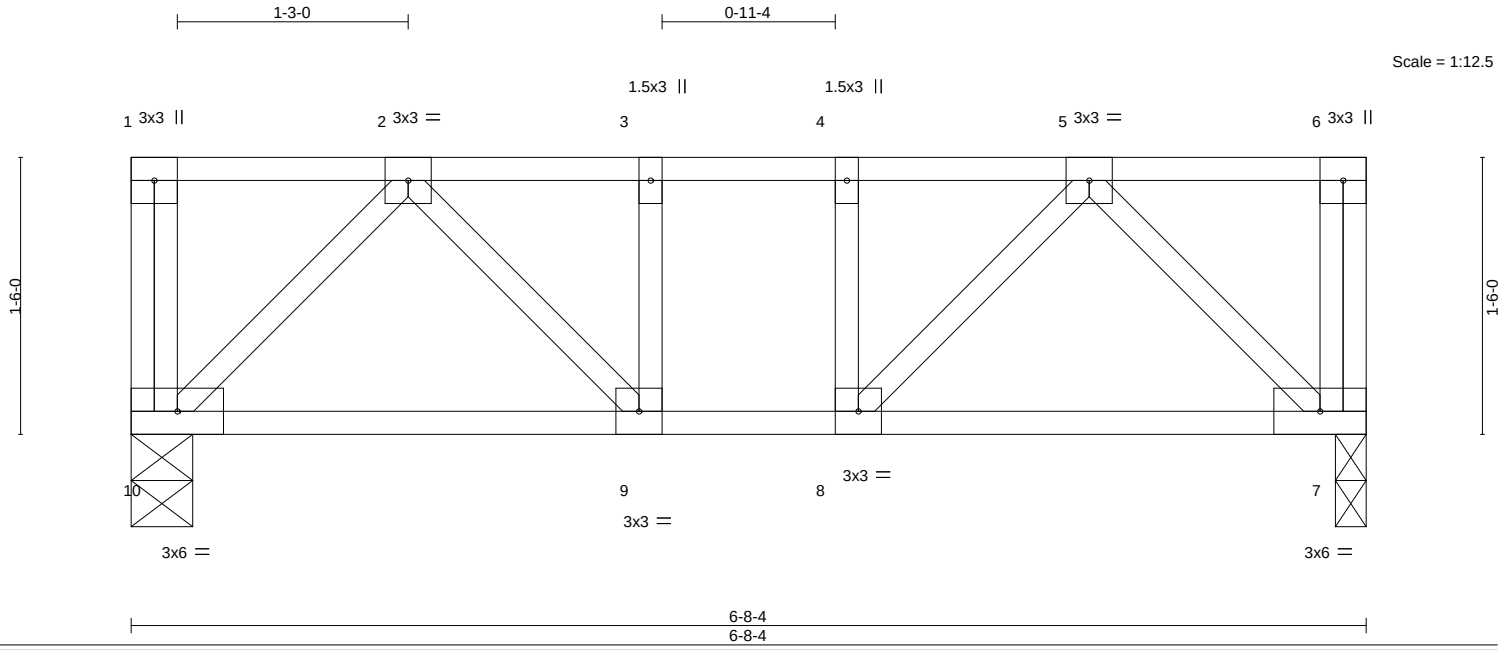

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-2-0
Max Grav 10=805(LC 1), 7=805(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-934/0, 3-4=-934/0, 4-5=-934/0
BOT CHORD	9-10=0/661, 8-9=0/934, 7-8=0/661
WEBS	2-10=-934/0, 2-9=0/469, 3-9=-267/0, 5-7=-934/0, 5-8=0/469, 4-8=-267/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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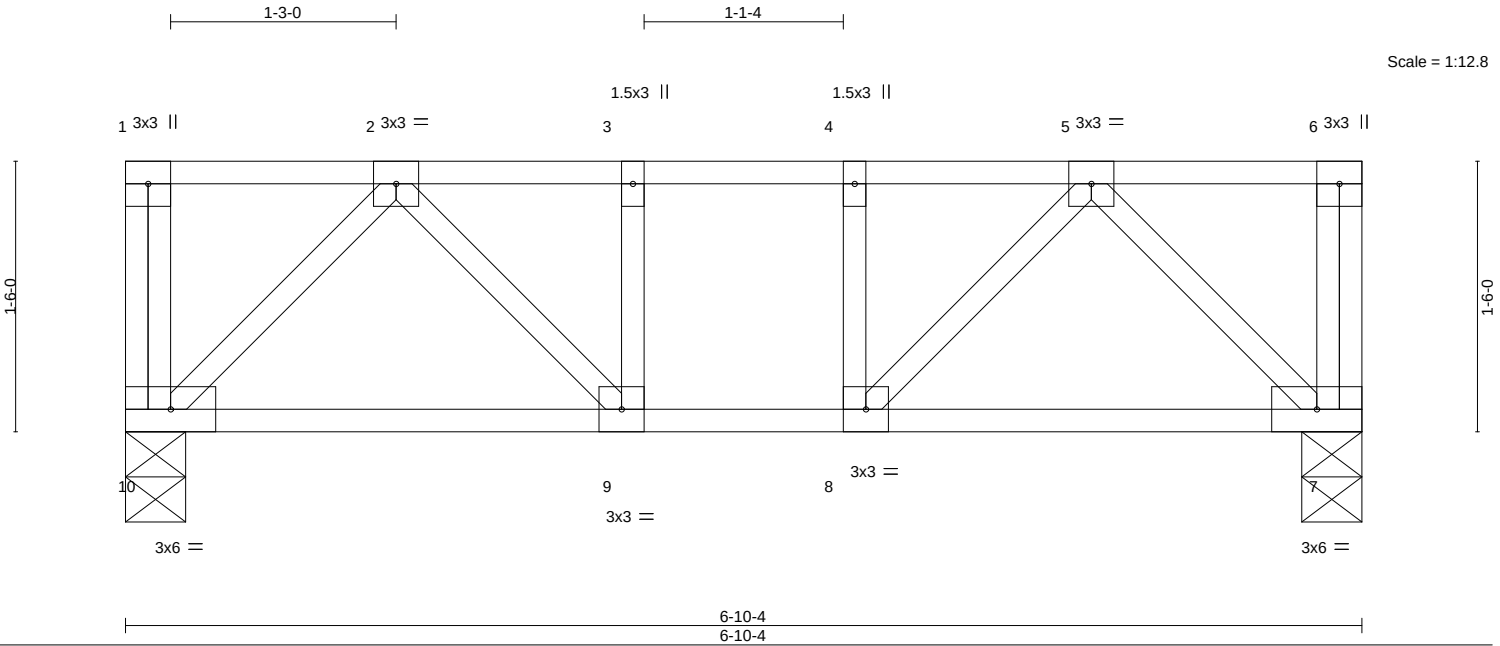
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C10	Floor	34	1	I49618544
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:41 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-h6D9btfK?3zeucPk1E5S7gKDj5XqFZNGFg9?Zpzwnwu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=826(LC 1), 7=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-978/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/681, 8-9=0/978, 7-8=0/681
WEBS	2-10=-963/0, 2-9=0/507, 3-9=-293/0, 5-7=-963/0, 5-8=0/507, 4-8=-293/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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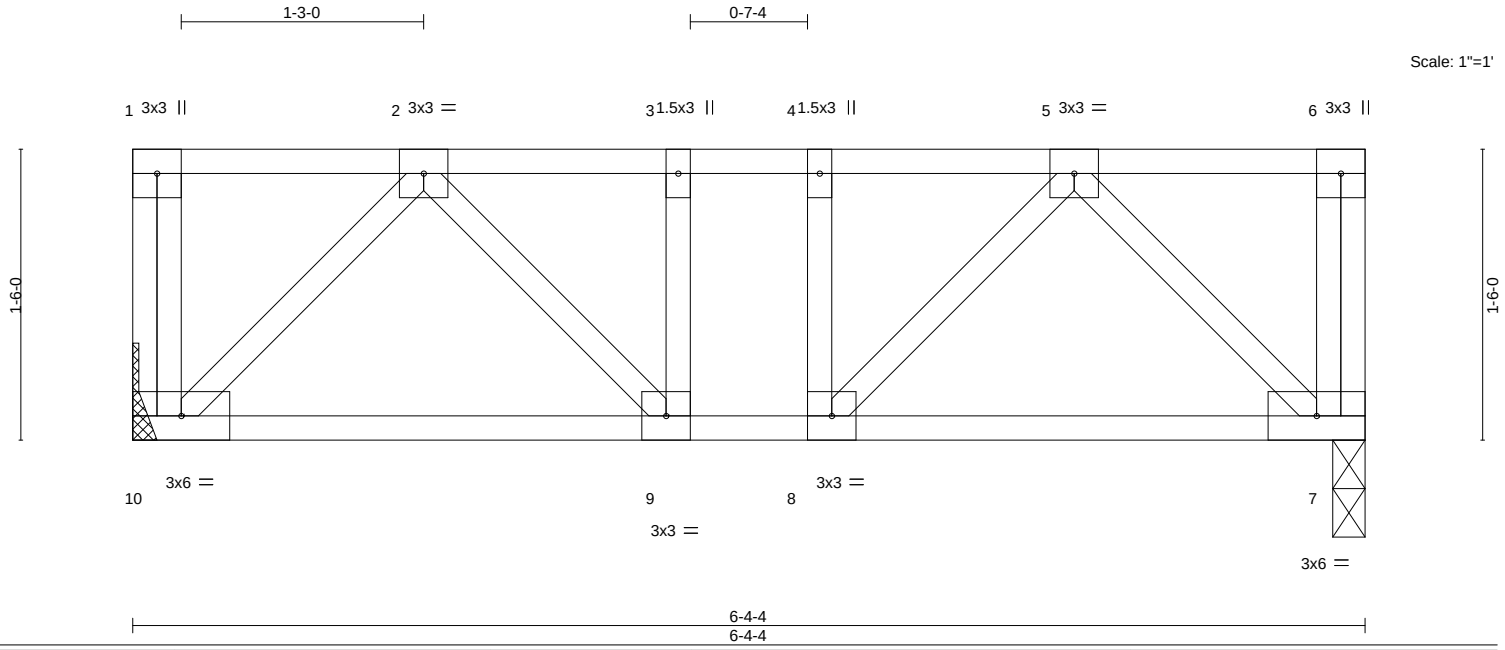
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C11	Floor	2	1	I49618545
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:42 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-9JnXoCgymM5VWm_wbydhfttPuVuV_05PTKvY5Fzwnwt



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 41 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-2-0
Max Grav 10=763(LC 1), 7=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-849/0, 3-4=-849/0, 4-5=-849/0
BOT CHORD	9-10=0/620, 8-9=0/849, 7-8=0/620
WEBS	2-10=-877/0, 2-9=0/395, 5-7=-877/0, 5-8=0/395

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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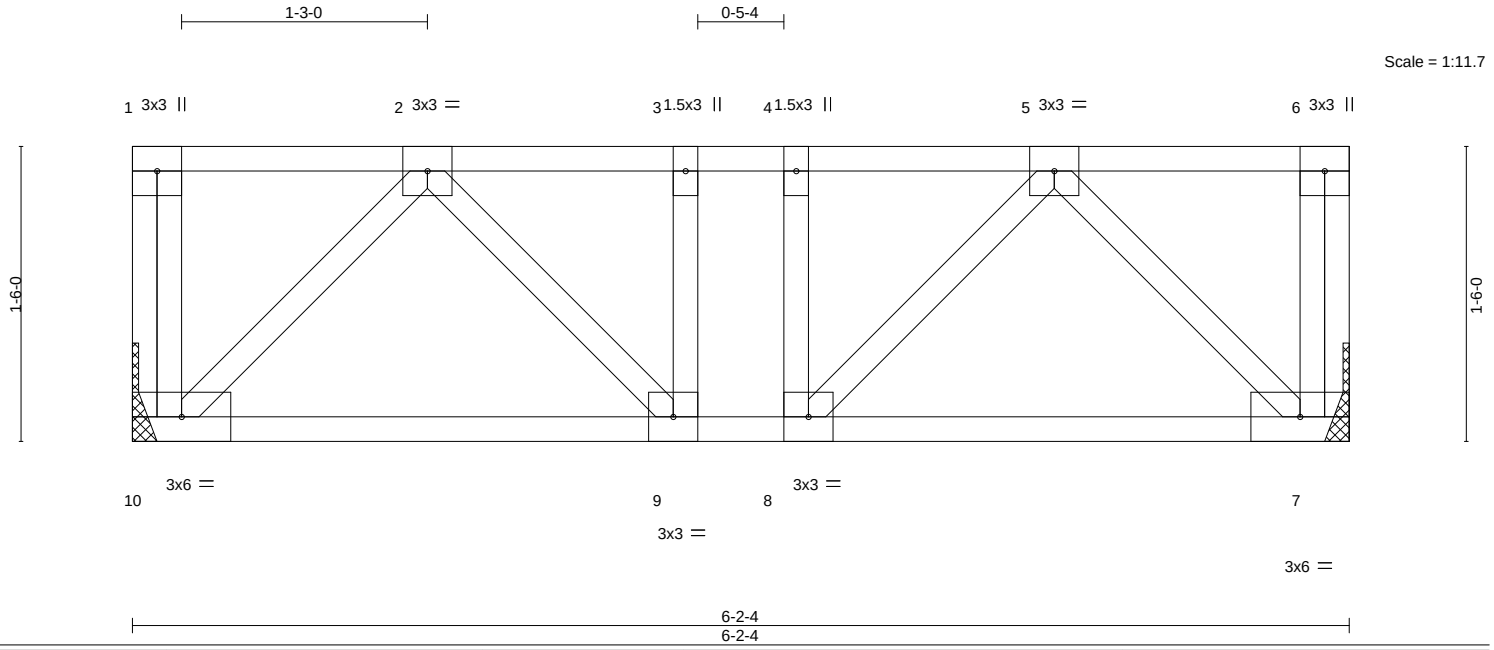
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C12	Floor	1	1	I49618546
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-dVLw?YgaXgDM7wZ79f8wC5PakvEBjTSYi_e5ehzwnws



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 40 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=742(LC 1), 7=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-808/0, 3-4=-808/0, 4-5=-808/0
BOT CHORD	9-10=0/600, 8-9=0/808, 7-8=0/600
WEBS	2-10=-848/0, 2-9=0/360, 5-7=-848/0, 5-8=0/360

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C13	Floor	6	1	I49618547
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:44 2022 Page 1
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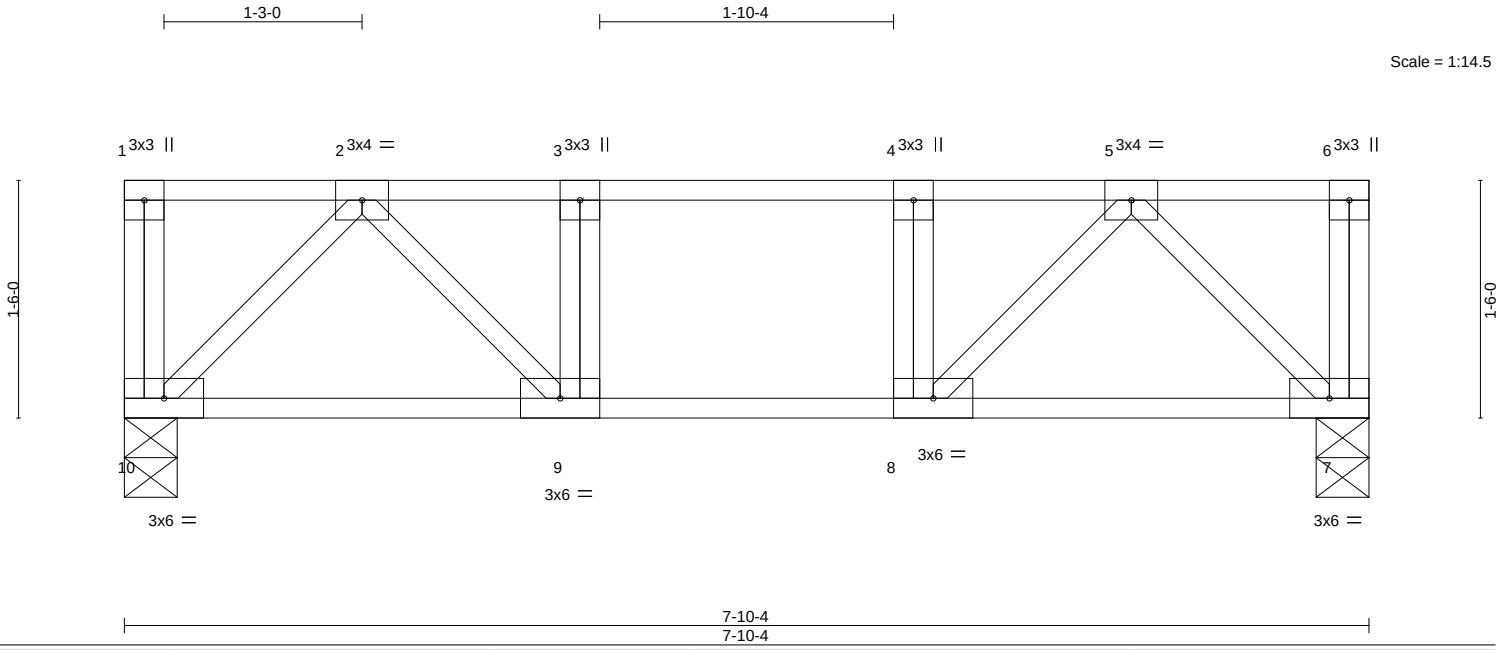

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.08	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-4-0, 7=0-4-0
Max Grav 10=951(LC 1), 7=951(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1266/0, 3-4=-1266/0, 4-5=-1266/0
BOT CHORD	9-10=0/799, 8-9=0/1266, 7-8=0/799
WEBS	2-10=-1130/0, 2-9=0/751, 3-9=-450/0, 5-7=-1130/0, 5-8=0/751, 4-8=-450/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C14	Floor	3	1	I49618548
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:45 2022 Page 1
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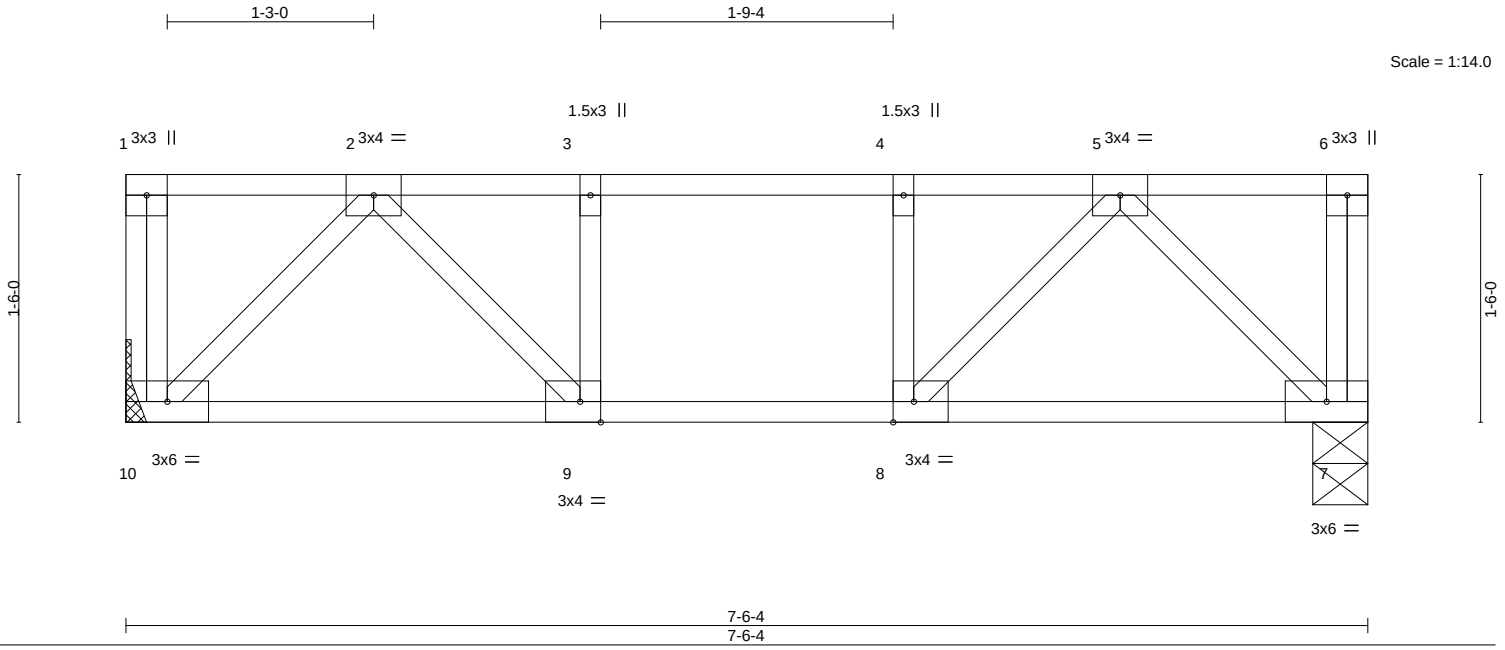

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 44 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=0-4-0
Max Grav 10=909(LC 1), 7=909(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/0, 3-4=-1162/0, 4-5=-1162/0
BOT CHORD 9-10=0/759, 8-9=0/1162, 7-8=0/759
WEBS 2-10=-1073/0, 2-9=0/675, 3-9=-411/0, 5-7=-1073/0, 5-8=0/675, 4-8=-411/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C15	Floor	1	1	I49618549
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:46 2022 Page 1
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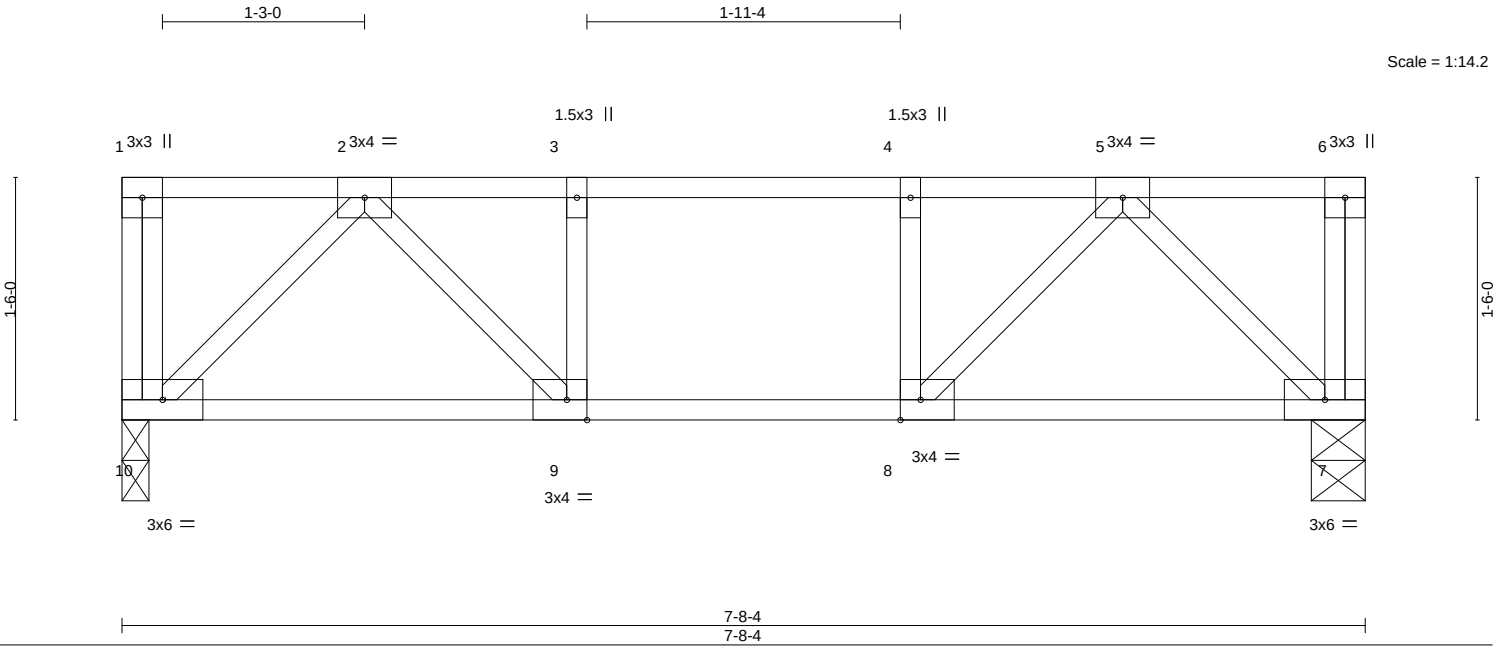

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.07	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 45 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-4-0
Max Grav 10=930(LC 1), 7=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1210/0, 3-4=-1210/0, 4-5=-1210/0
BOT CHORD 9-10=0/778, 8-9=0/1210, 7-8=0/778
WEBS 2-10=-1100/0, 2-9=0/720, 3-9=-442/0, 5-7=-1100/0, 5-8=0/720, 4-8=-442/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C16	FLOOR	4	1	I49618550
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:46 2022 Page 1
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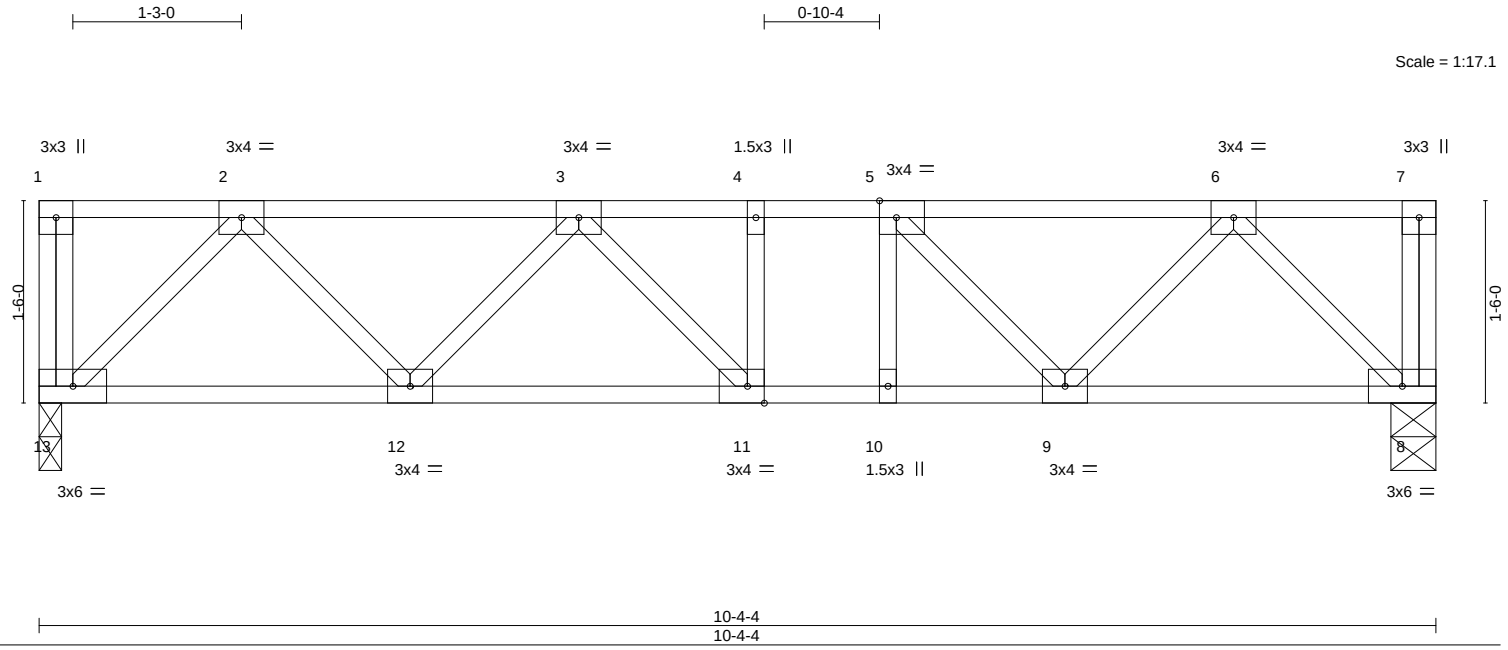

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.06	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.07	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 60 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=0-4-0
Max Grav 13=842(LC 1), 8=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1151/0, 3-4=-1528/0, 4-5=-1528/0, 5-6=-1148/0
BOT CHORD 12-13=0/774, 11-12=0/1509, 10-11=0/1528, 9-10=0/1528, 8-9=0/775
WEBS 2-13=-1094/0, 2-12=0/561, 3-12=-532/0, 6-8=-1095/0, 6-9=0/555, 5-9=-550/0, 3-11=-182/300

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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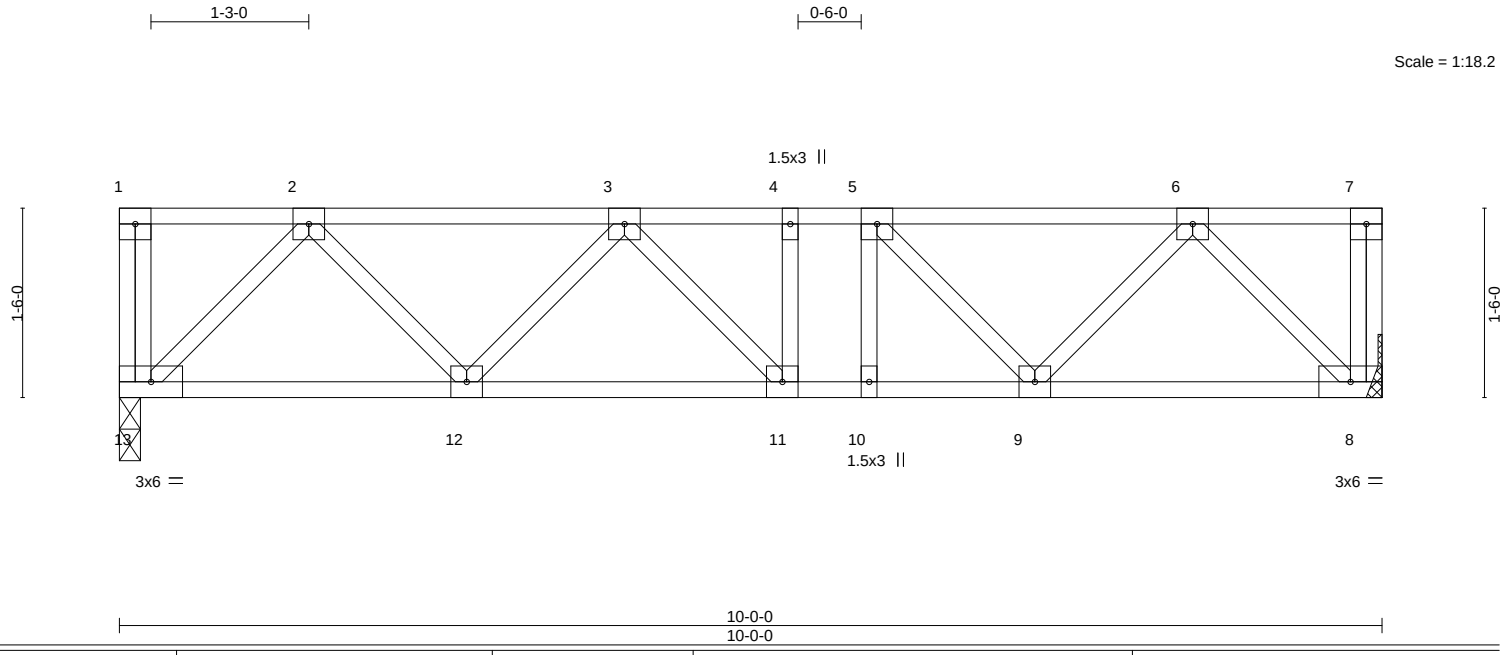
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C17	FLOOR	3	1	I49618551
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:47 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WGaQrwk4bvjocXtuOVCsMxaCvWYMfHg8dccJnTzwnwo



LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.04	11-12	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.05	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 59 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-2-0, 8=Mechanical
Max Grav 13=813(LC 1), 8=813(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1093/0, 3-4=-1431/0, 4-5=-1431/0, 5-6=-1092/0
BOT CHORD	12-13=0/744, 11-12=0/1427, 10-11=0/1431, 9-10=0/1431, 8-9=0/747
WEBS	2-13=-1052/0, 2-12=0/519, 3-12=-496/0, 6-8=-1057/0, 6-9=0/513, 5-9=-491/0, 3-11=-198/259

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C18	Floor	1	1	I49618552
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:49 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SfiBGclL7WzWsr1GVwFKSMfbyJF77BcR5w5QrLzwnwm

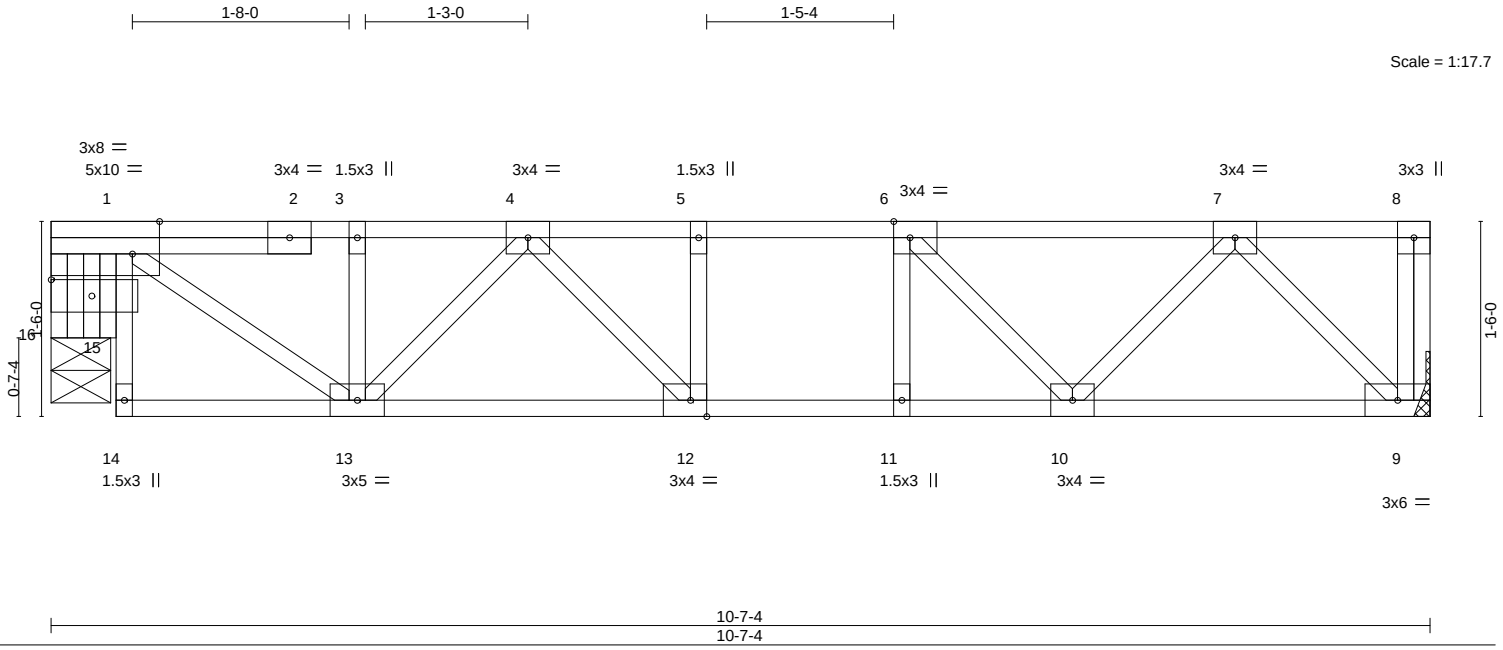

Plate Offsets (X,Y)-- [1:0-2-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [16:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.05	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 65 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-13: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 16=0-5-8
Max Grav 9=437(LC 1), 16=423(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-513/0, 3-4=-511/0, 4-5=-793/0, 5-6=-793/0, 6-7=-597/0
BOT CHORD	12-13=0/707, 11-12=0/793, 10-11=0/793, 9-10=0/399
WEBS	7-9=-564/0, 7-10=0/295, 6-10=-293/0, 1-13=0/569, 4-13=-284/0, 1-16=-435/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C19	Floor	5	1	I49618553
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:50 2022 Page 1
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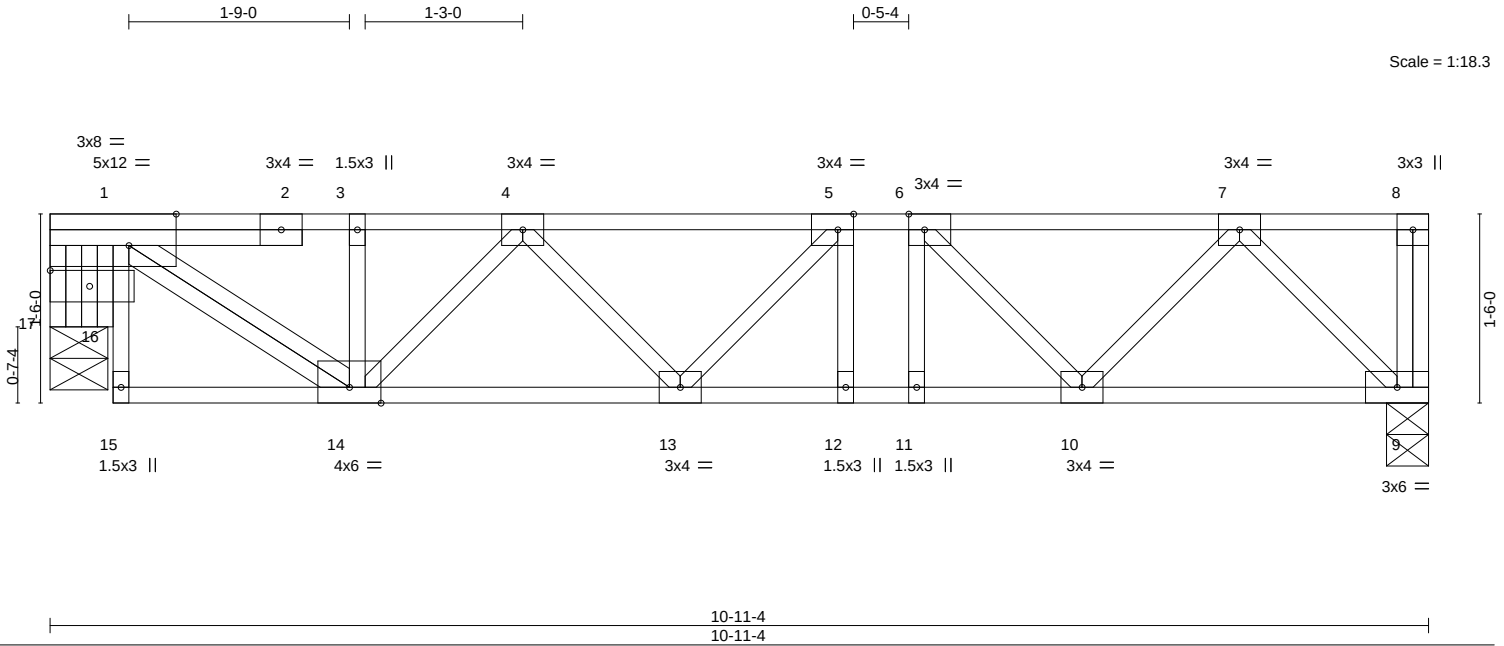

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [17:0-3-12,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.06	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 72 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 1-14: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 17=0-5-8
Max Grav 9=868(LC 1), 17=841(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-3=-1016/0, 3-4=-1020/0, 4-5=-1574/0, 5-6=-1626/0, 6-7=-1197/0
BOT CHORD	13-14=0/1486, 12-13=0/1626, 11-12=0/1626, 10-11=0/1626, 9-10=0/797
WEBS	1-14=0/1121, 4-14=-658/0, 5-12=-294/145, 7-9=-1126/0, 7-10=0/595, 6-10=-621/0, 6-11=-139/298, 1-17=-866/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	C20	FLOOR	2	1	I49618554
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:52 2022 Page 1
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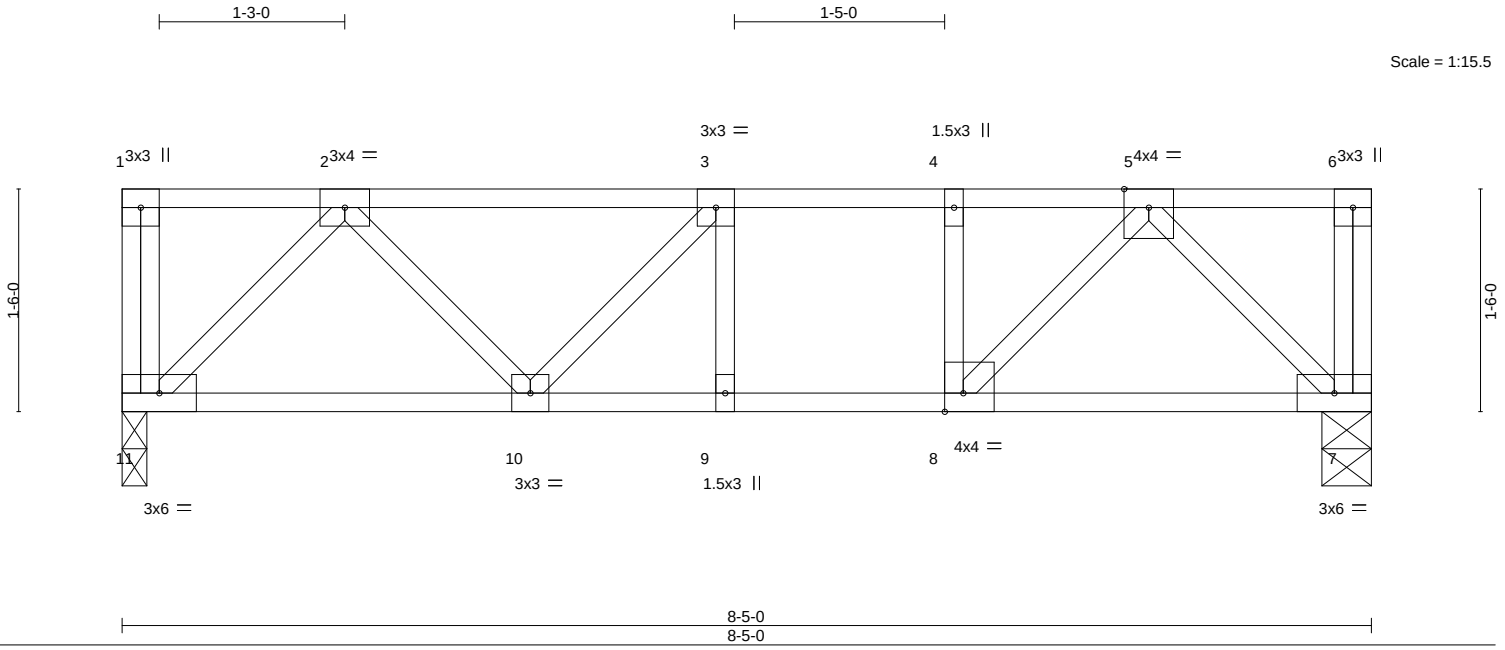

Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.10	9-10	>965	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.12	9-10	>823	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=0-4-0
Max Grav 11=1021(LC 1), 7=1021(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1255/0, 3-4=-1467/0, 4-5=-1467/0
BOT CHORD 10-11=0/945, 9-10=0/1467, 8-9=0/1467, 7-8=0/888
WEBS 2-11=-1336/0, 2-10=0/461, 3-10=-428/0, 3-9=-279/41, 5-7=-1255/0, 5-8=0/883, 4-8=-447/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F1	Floor	6	1	I49618555
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:09:59 2022 Page 1
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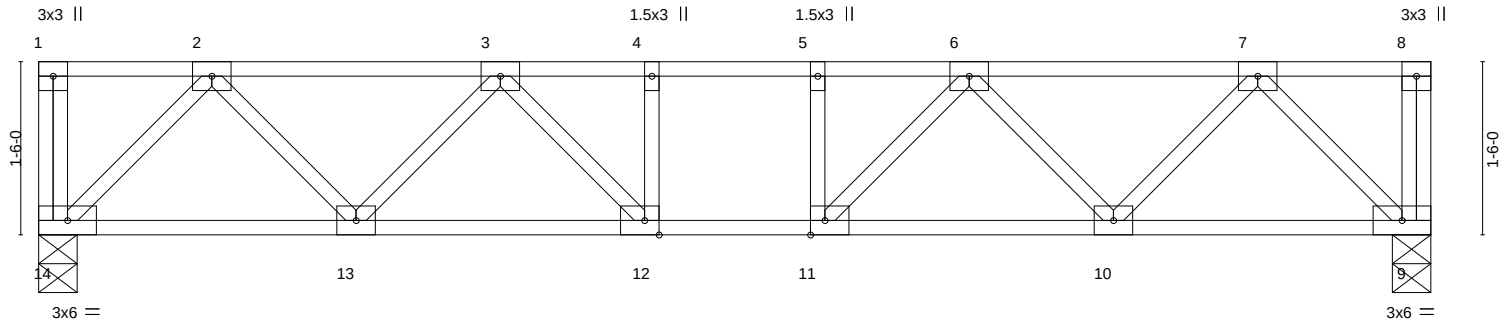

12-0-12
12-0-12

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-4-0
Max Grav 14=768(LC 1), 9=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/0, 3-4=-1631/0, 4-5=-1631/0, 5-6=-1631/0, 6-7=-1111/0
BOT CHORD 13-14=0/712, 12-13=0/1484, 11-12=0/1631, 10-11=0/1484, 9-10=0/712
WEBS 2-14=-1007/0, 2-13=0/594, 3-13=-554/0, 3-12=0/369, 7-9=-1007/0, 7-10=0/594, 6-10=-554/0, 6-11=0/369

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F2	FLOOR	36	1	I49618556
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:20 2022 Page 1
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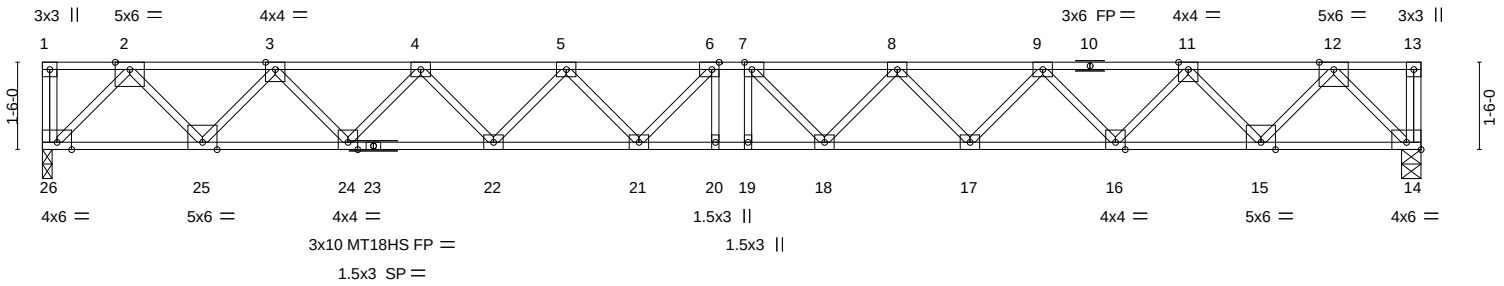

23-8-4
23-8-4

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.46	20	>611	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.75	20	>376	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.12	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 129 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.1(flat) *Except* 10-13: 2x4 SP No.2(flat)
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 23-26: 2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24.

REACTIONS. (size) 26=0-2-0, 14=0-4-0
Max Grav 26=1523(LC 1), 14=1523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2553/0, 3-4=-4405/0, 4-5=-5665/0, 5-6=-6327/0, 6-7=-6506/0, 7-8=-6327/0, 8-9=-5666/0, 9-11=-4404/0, 11-12=-2553/0
BOT CHORD	25-26=0/1461, 24-25=0/3619, 22-24=0/5169, 21-22=0/6139, 20-21=0/6506, 19-20=0/6506, 18-19=0/6506, 17-18=0/6139, 16-17=0/5169, 15-16=0/3619, 14-15=0/1461
WEBS	2-26=-2067/0, 2-25=0/1623, 3-25=-1585/0, 3-24=0/1168, 4-24=-1135/0, 4-22=0/739, 5-22=-705/0, 5-21=-32/459, 12-14=-2066/0, 12-15=0/1623, 11-15=-1585/0, 11-16=0/1167, 9-16=-1136/0, 9-17=0/739, 8-17=-703/0, 8-18=-32/459, 7-18=-515/133, 6-21=-515/133

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 26.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F3	FLOOR	3	1	I49618557
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:41 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wfrrAONytVX75q?GYrAXYKpUbHz4Jhc520hAgKzwnvy

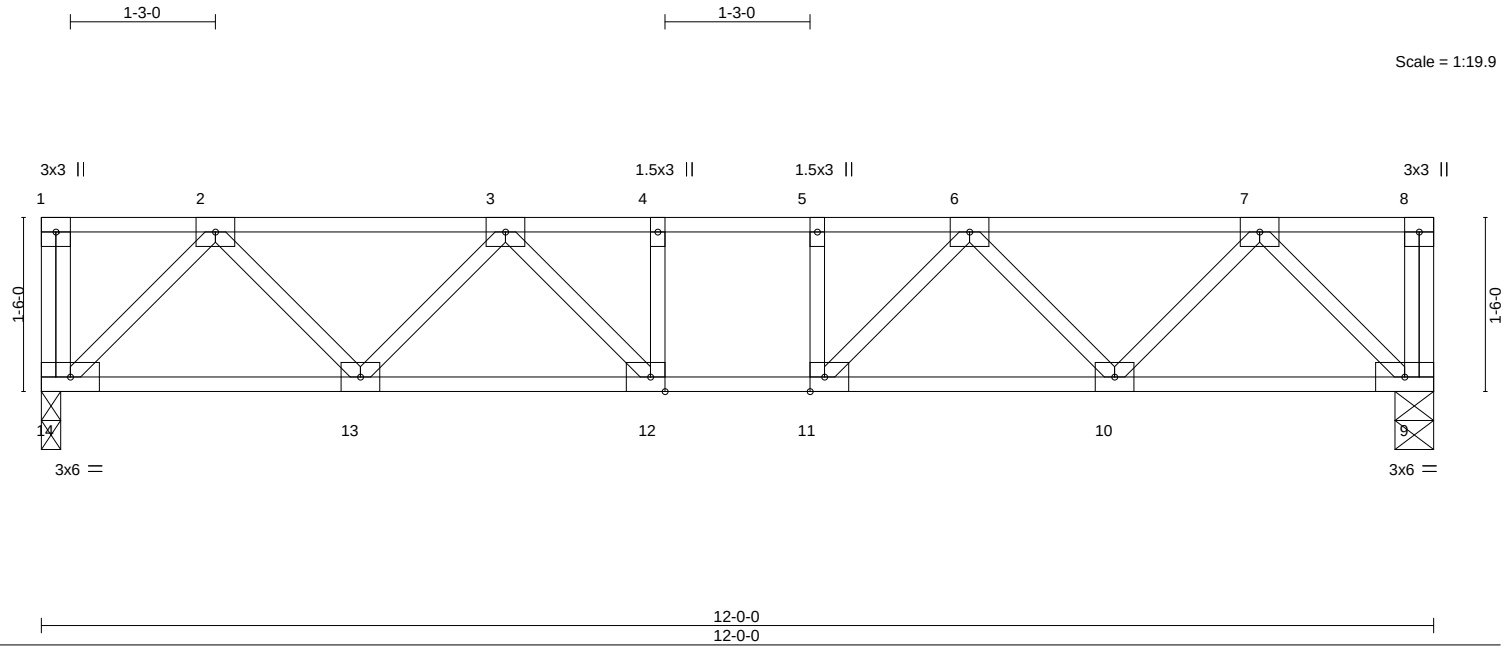

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-4-0
Max Grav 14=764(LC 1), 9=764(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1104/0, 3-4=-1615/0, 4-5=-1615/0, 5-6=-1615/0, 6-7=-1104/0
BOT CHORD 13-14=0/708, 12-13=0/1473, 11-12=0/1615, 10-11=0/1473, 9-10=0/708
WEBS 2-14=-1001/0, 2-13=0/589, 3-13=-548/0, 3-12=0/360, 7-9=-1001/0, 7-10=0/589, 6-10=-548/0, 6-11=0/360

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F4	FLOOR	3	1	I49618558
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:45 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-pQ5M0lQTxj1ZZSJ1nhFTjA_7muJ6FUCgzdfNp5zwnvu

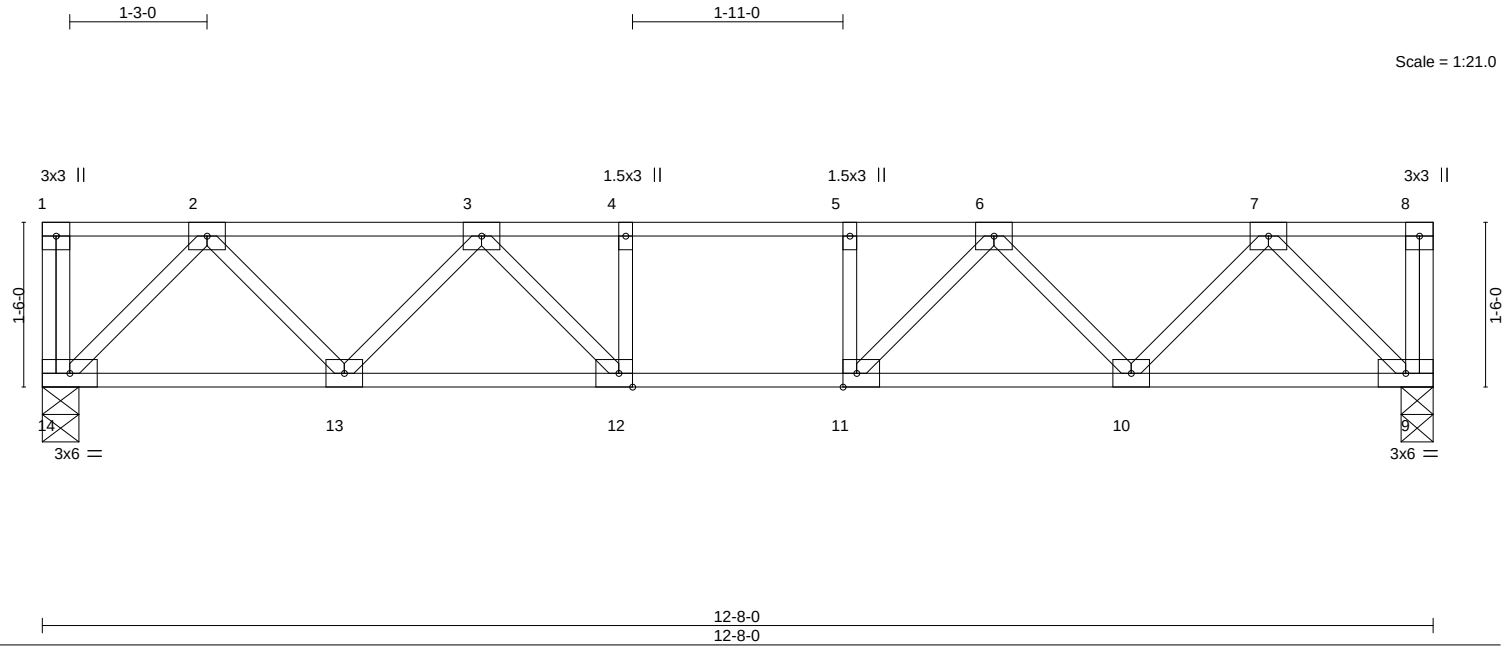

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.08	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 70 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-3-8
Max Grav 14=807(LC 1), 9=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1185/0, 3-4=-1791/0, 4-5=-1791/0, 5-6=-1791/0, 6-7=-1185/0
BOT CHORD 13-14=0/752, 12-13=0/1592, 11-12=0/1791, 10-11=0/1592, 9-10=0/752
WEBS 2-14=-1063/0, 2-13=0/645, 3-13=-605/0, 3-12=0/462, 4-12=-260/0, 7-9=-1063/0, 7-10=0/645, 6-10=-605/0, 6-11=0/462, 5-11=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F4A	FLOOR	2	1	I49618559
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:52 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-6n0?U8WsHtvavXLNhft6VemLEjkAOfDiaDsFZBzwnvn

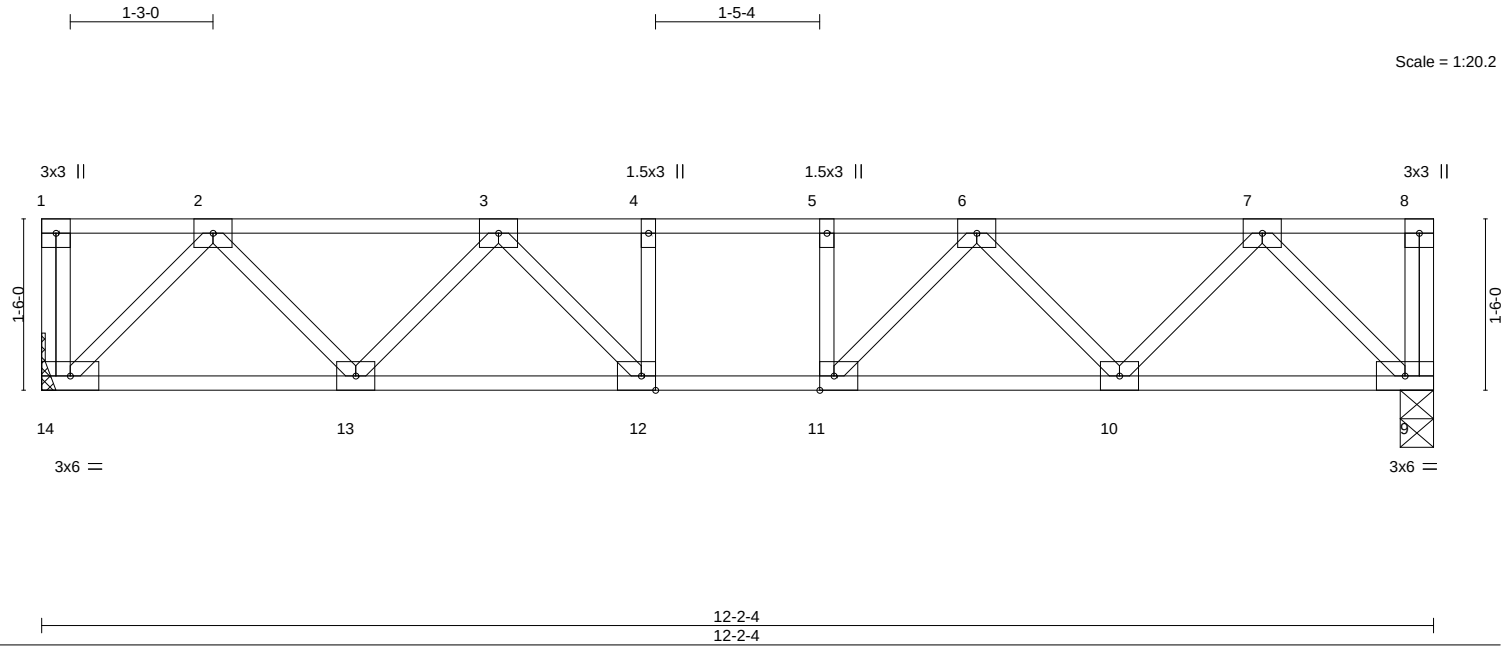

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-3-8
Max Grav 14=776(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1127/0, 3-4=-1664/0, 4-5=-1664/0, 5-6=-1664/0, 6-7=-1127/0
BOT CHORD 13-14=0/720, 12-13=0/1506, 11-12=0/1664, 10-11=0/1506, 9-10=0/720
WEBS 2-14=-1018/0, 2-13=0/605, 3-13=-564/0, 3-12=0/388, 7-9=-1018/0, 7-10=0/605, 6-10=-564/0, 6-11=0/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F5	FLOOR	2	1	I49618560
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:54 2022 Page 1
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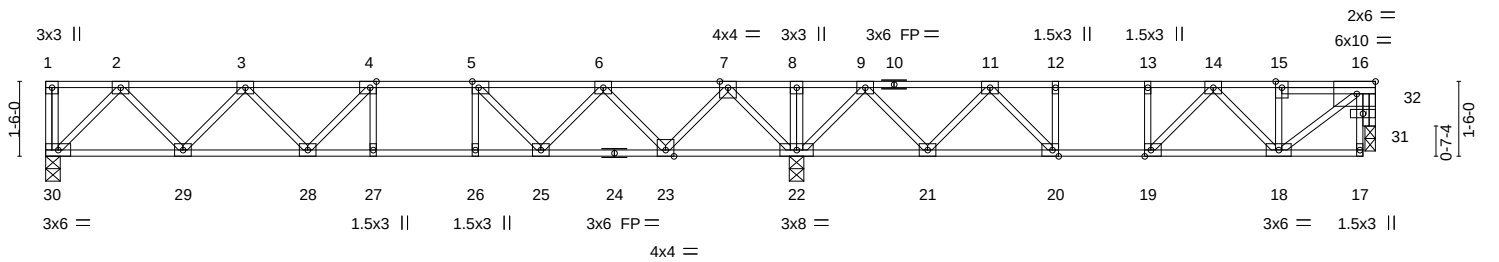

15-0-9 26-7-12
15-0-9 11-7-3

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [16:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.13	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.19	27-28	>939	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	32	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 147 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
17-24: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22,20-21.

REACTIONS. (size) 30=0-3-8, 22=0-3-8, 32=0-2-8
Max Grav 30=884(LC 10), 22=1978(LC 1), 32=631(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1338/0, 3-4=-2020/0, 4-5=-2147/0, 5-6=-1732/0, 6-7=-730/49, 7-8=0/1311, 8-9=0/1311, 9-11=-472/333, 11-12=-1164/0, 12-13=-1164/0, 13-14=-1164/0, 14-15=-717/0, 15-16=-719/0
BOT CHORD 29-30=0/820, 28-29=0/1834, 27-28=0/2147, 26-27=0/2147, 25-26=0/2147, 23-25=0/1367, 22-23=-398/67, 21-22=-579/19, 20-21=-88/913, 19-20=0/1164, 18-19=0/1021
WEBS 2-30=-1159/0, 2-29=0/770, 3-29=-739/0, 3-28=0/276, 4-28=-255/64, 7-22=-1442/0, 7-23=0/1033, 6-23=-992/0, 6-25=0/598, 5-25=-725/0, 5-26=0/251, 9-22=-1173/0, 9-21=0/755, 11-21=-758/0, 11-20=0/592, 12-20=-313/0, 16-18=0/829, 14-18=-441/0, 16-32=-648/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 32 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 32.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F6	FLOOR	5	1	I49618561
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:08 2022 Page 1
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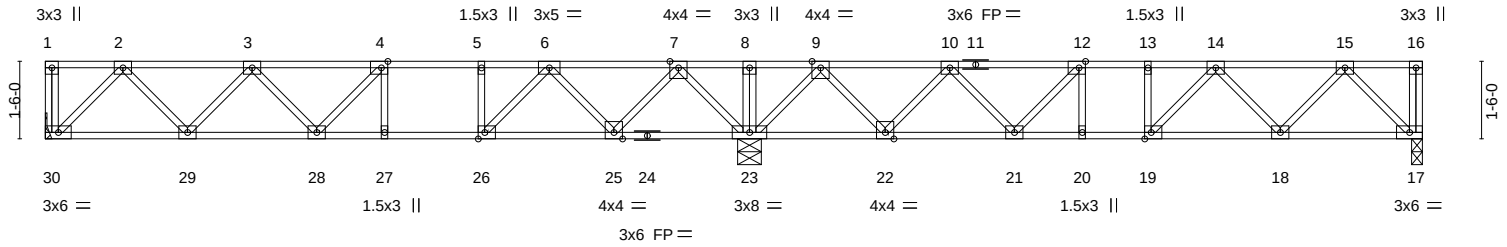

13-7-8 26-7-12
13-7-8 13-0-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [19:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.12	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.19	27-28	>866	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 145 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
24-30: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 26-27
6-0-0 oc bracing: 23-25,22-23.

REACTIONS. (size) 30=Mechanical, 17=0-2-8, 23=0-5-8
Max Grav 30=801(LC 3), 17=744(LC 7), 23=1970(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1180/0, 3-4=-1709/0, 4-5=-1703/0, 5-6=-1703/0, 6-7=-693/253, 7-8=0/1323, 8-9=0/1323, 9-10=-542/117, 10-12=-1320/0, 12-13=-1541/0, 13-14=-1541/0, 14-15=-1064/0
BOT CHORD 29-30=0/734, 28-29=0/1609, 27-28=0/1703, 26-27=0/1703, 25-26=0/1264, 23-25=-525/144, 22-23=-419/0, 21-22=0/1079, 20-21=0/1541, 19-20=0/1541, 18-19=0/1418, 17-18=0/687
WEBS 2-30=-1038/0, 2-29=0/663, 3-29=-638/0, 4-27=-267/0, 7-23=-1305/0, 7-25=0/873, 6-25=-924/0, 6-26=0/813, 5-26=-361/0, 9-23=-1279/0, 9-22=0/889, 10-22=-860/0, 10-21=0/429, 12-21=-459/0, 15-17=-971/0, 15-18=0/561, 14-18=-526/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

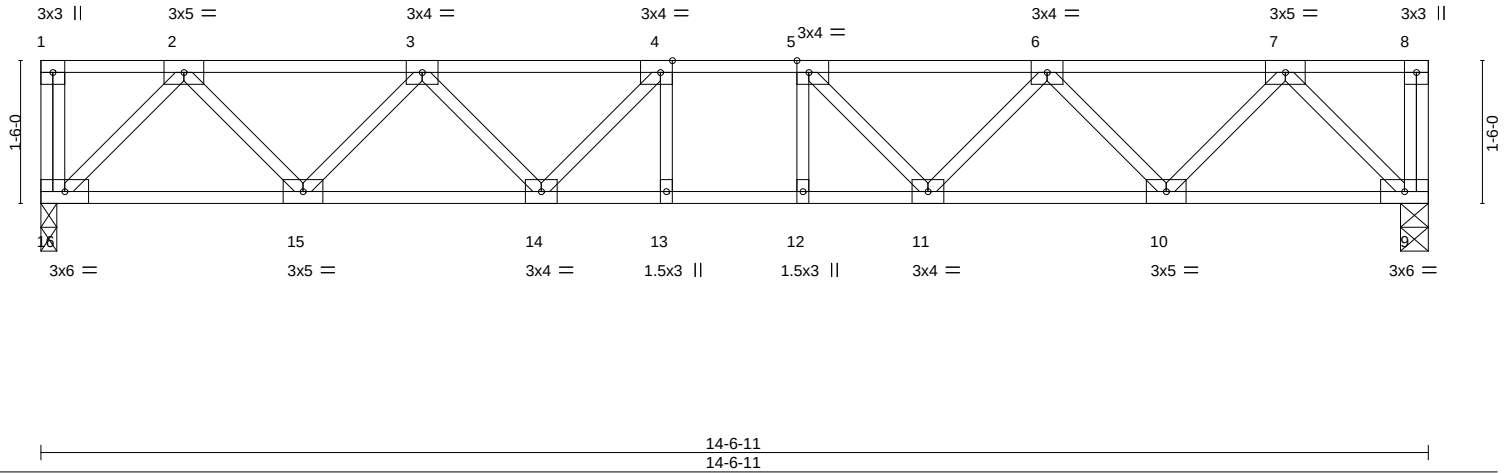
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F7	Floor	10	1	I49618562
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:09 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-62XQ3yjWH529S88eBjg5hEzD5ZRptJmDUMTffizwnvW

1-3-0 1-3-11

Scale: 1/2"=1'



14-6-11
14-6-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 81 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-2-0, 9=0-3-8
Max Grav 16=930(LC 1), 9=930(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1426/0, 3-4=-2191/0, 4-5=-2419/0, 5-6=-2191/0, 6-7=-1426/0
BOT CHORD 15-16=0/868, 14-15=0/1957, 13-14=0/2419, 12-13=0/2419, 11-12=0/2419, 10-11=0/1957, 9-10=0/868
WEBS 2-16=-1228/0, 2-15=0/829, 3-15=-790/0, 3-14=0/398, 4-14=-461/0, 7-9=-1228/0, 7-10=0/829, 6-10=-790/0, 6-11=0/398, 5-11=-461/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F8	FLOOR	4	1	I49618563
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:11 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-2QfBTelnpiJthRI1J8jZmf2RkN6IL8PVxgylkbzwnvU

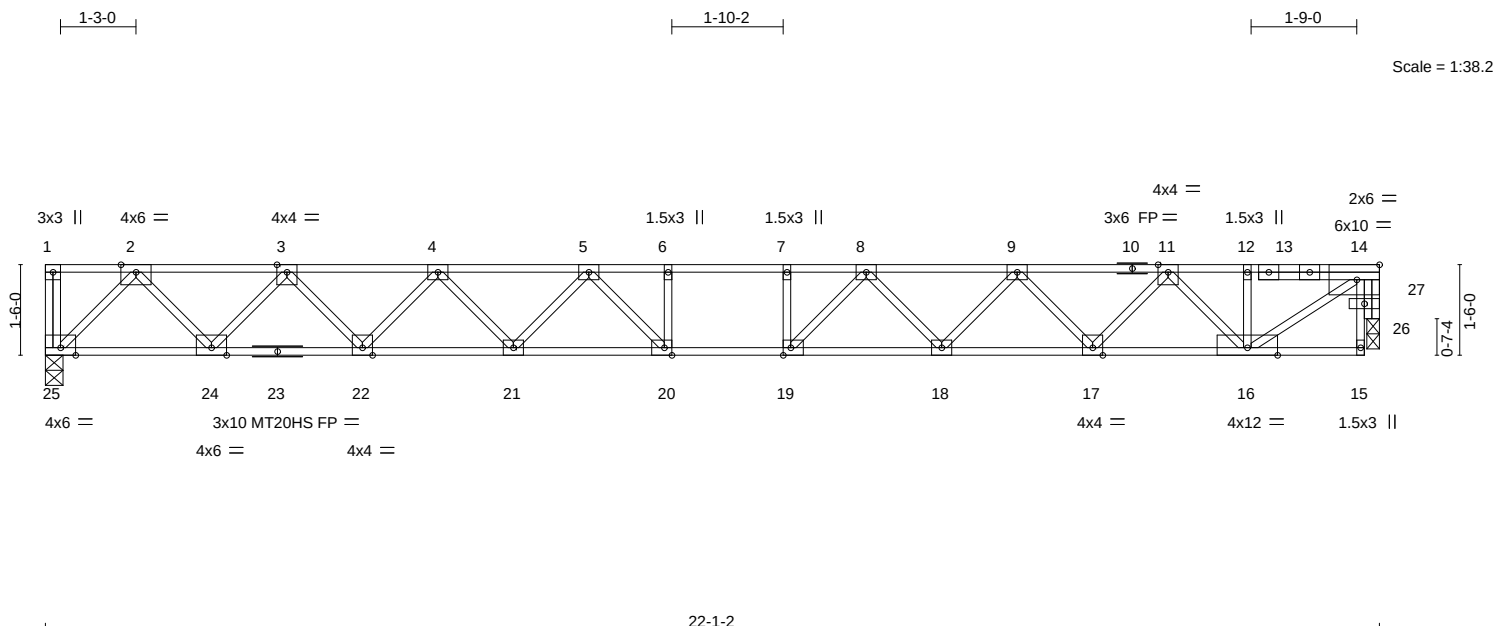

Plate Offsets (X,Y)-- [14:0-4-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.36	20	>737	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.58	20	>453	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 121 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except*
	1-10: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat) *Except*
	15-23: 2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat) *Except*
	14-16: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	2-2-0 oc bracing: 22-24.

REACTIONS. (size) 25=0-3-8, 27=0-2-8
Max Grav 25=1418(LC 1), 27=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2354/0, 3-4=-4014/0, 4-5=-5082/0, 5-6=-5585/0, 6-7=-5585/0, 7-8=-5585/0, 8-9=-4901/0, 9-11=-3714/0, 11-12=-1912/0, 12-14=-1916/0
BOT CHORD	24-25=0/1357, 22-24=0/3323, 21-22=0/4688, 20-21=0/5444, 19-20=0/5585, 18-19=0/5333, 17-18=0/4455, 16-17=0/2948
WEBS	2-25=-1919/0, 2-24=0/1482, 3-24=-1441/0, 3-22=0/1028, 4-22=-1002/0, 4-21=0/587, 5-21=-569/0, 5-20=-198/611, 6-20=-313/24, 14-16=0/2145, 11-16=-1499/0, 11-17=0/1139, 9-17=-1102/0, 9-18=0/663, 8-18=-645/0, 8-19=-81/726, 7-19=-363/0, 14-27=-1432/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 27.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F9	FLOOR	10	1	I49618564
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:13 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_pnxuKm1LKZbwlSQQZl1r48pKBnfp2toP_RsoUzwnvS

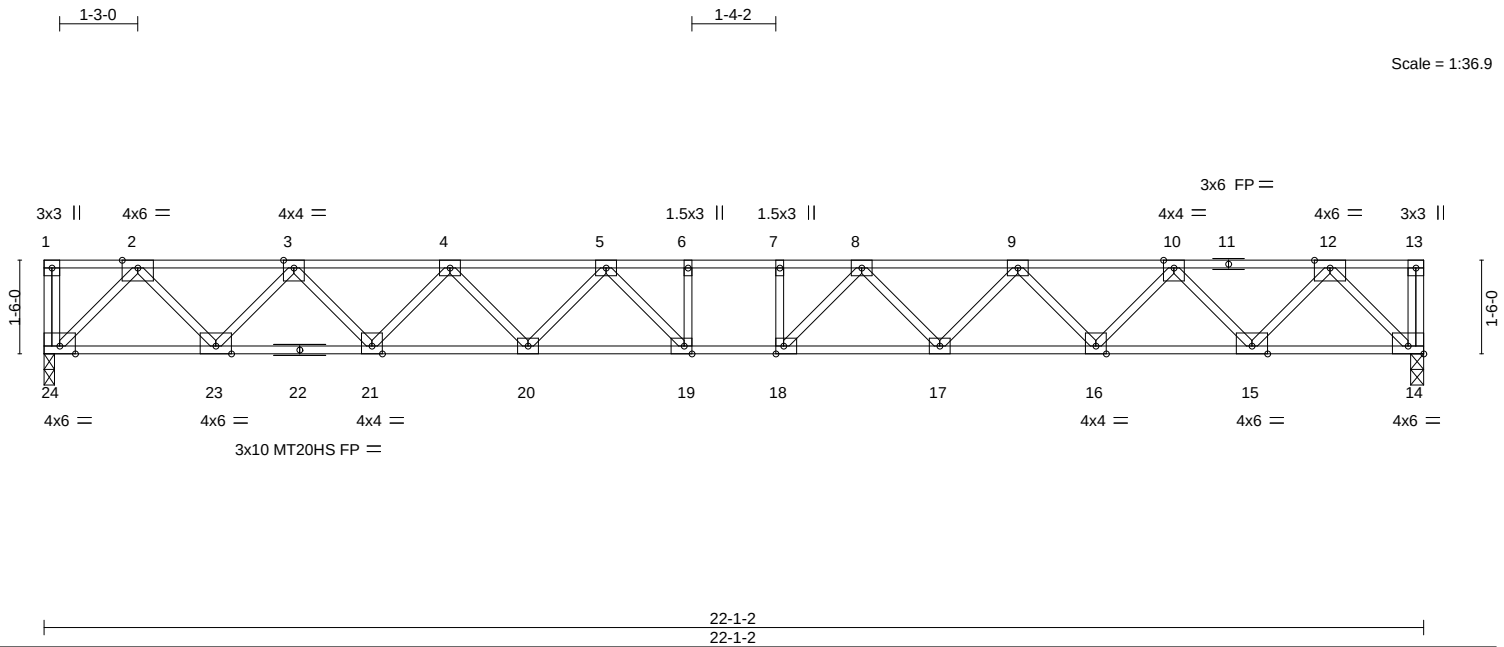

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.37	18-19	>699	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.61	18-19	>431	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 119 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
22-24: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-2-0, 14=0-2-8
Max Grav 24=1420(LC 1), 14=1420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2356/0, 3-4=-4020/0, 4-5=-5087/0, 5-6=-5609/0, 6-7=-5609/0, 7-8=-5609/0, 8-9=-5087/0, 9-10=-4021/0, 10-12=-2355/0
BOT CHORD 23-24=0/1358, 21-23=0/3327, 20-21=0/4694, 19-20=0/5457, 18-19=0/5609, 17-18=0/5457, 16-17=0/4693, 15-16=0/3327, 14-15=0/1358
WEBS 2-24=-1921/0, 2-23=0/1483, 3-23=-1443/0, 3-21=0/1031, 4-21=-1001/0, 4-20=0/585, 5-20=-571/0, 5-19=-176/579, 12-14=-1921/0, 12-15=0/1482, 10-15=-1444/0, 10-16=0/1031, 9-16=-1000/0, 9-17=0/585, 8-17=-571/0, 8-18=-176/579, 7-18=-274/20, 6-19=-274/20

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24, 14.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F10	Floor	14	1	I49618565
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:00 2022 Page 1
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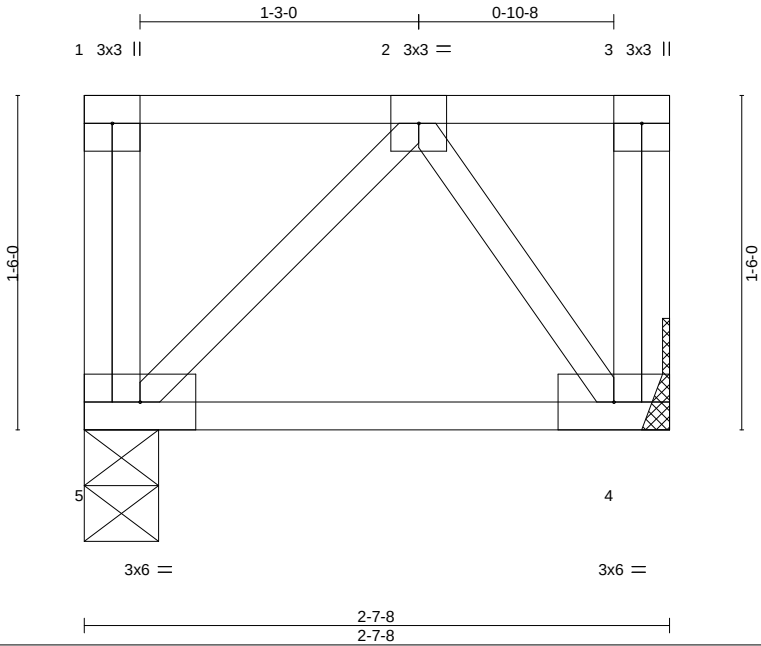

Scale = 1:10.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=Mechanical
Max Grav 5=154(LC 1), 4=154(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F10A	Floor	10	1	I49618566
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:01 2022 Page 1
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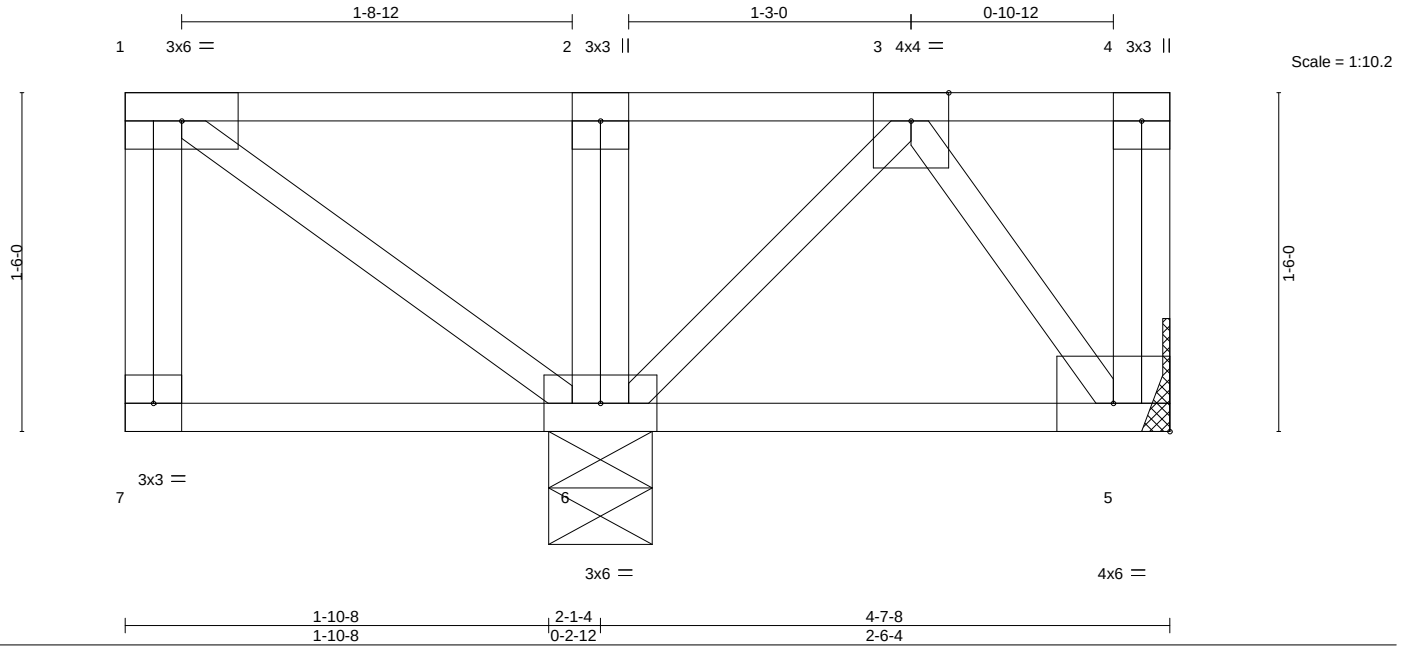

Plate Offsets (X,Y)-- [5:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-6: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Uplift 5=-536(LC 3)
Max Grav 6=1609(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/1001, 2-3=0/999
BOT CHORD 5-6=-422/0
WEBS 2-6=-260/0, 1-6=-1220/0, 3-5=0/708, 3-6=-880/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 536 lb uplift at joint 5.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-10, 1-4=-120
Concentrated Loads (lb)
Vert: 1=-600

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618567
PRYOR-F3C	F10GR	FLOOR GIRDER	2	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:03 2022 Page 1
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1-3-0 1-10-12

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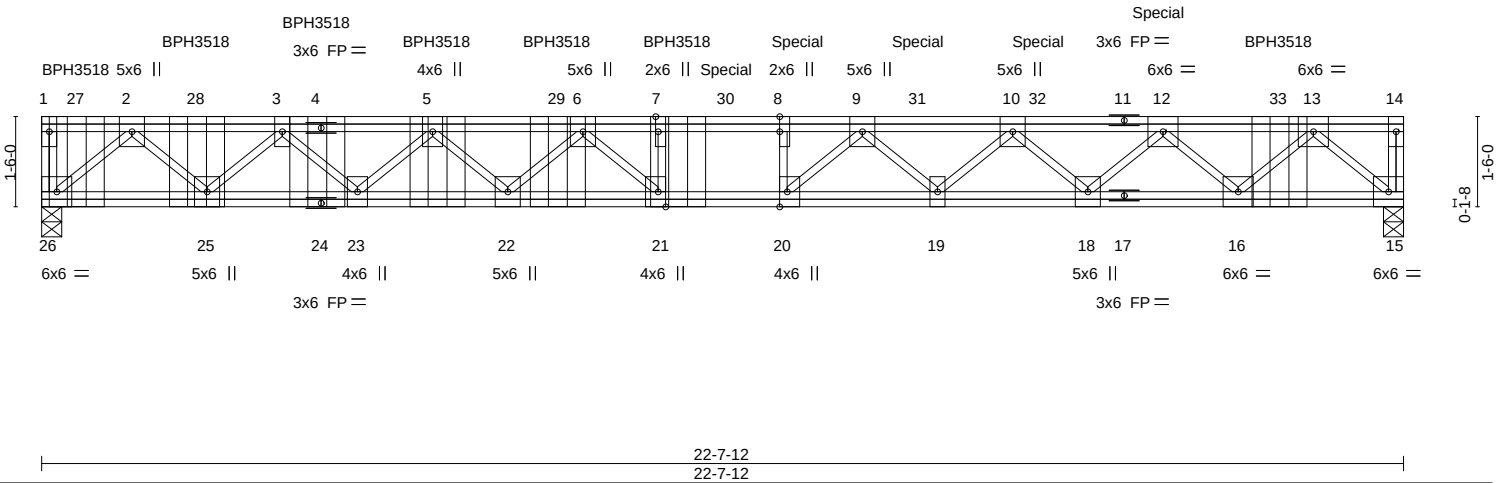

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [8:0-3-0,0-0-0], [20:0-3-0,Edge], [21:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	0.32	19-20	>851	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	0.37	19-20	>722	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	-0.05	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11,4-14: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
1-26,14-15: 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
4-10-14 oc bracing: 19-20.

REACTIONS. (size) 26=0-4-0, 15=0-4-0
Max Uplift 26=-218(LC 10), 15=-1059(LC 9)
Max Grav 26=1282(LC 1), 15=856(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2161/652, 3-5=-3487/1595, 5-6=-4114/2733, 6-7=-3725/4938, 7-8=-3725/4938, 8-9=-3725/4938, 9-10=-2907/5189, 10-12=-2246/4252, 12-13=-1374/2368
BOT CHORD 25-26=-285/1292, 23-25=-1055/3000, 22-23=-2125/3966, 21-22=-3500/4174, 20-21=-4938/3725, 19-20=-5377/3254, 18-19=-5010/2599, 16-18=-3574/1852, 15-16=-1179/874
WEBS 2-26=-1746/385, 2-25=-519/1228, 3-25=-1187/570, 3-23=-765/688, 5-23=-678/749, 5-22=-939/210, 6-22=-86/1248, 6-21=-2657/0, 7-21=0/1381, 13-15=-1182/1593, 13-16=-1682/707, 12-16=-676/1706, 12-18=-1088/558, 10-18=-499/1179, 10-19=-425/436, 9-19=-491/265, 9-20=0/1333, 8-20=-458/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 26 and 1059 lb uplift at joint 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 10-0-0 oc max. starting at 0-7-0 from the left end to 20-7-0 to connect truss(es) to back face of top chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 656 lb up at 11-4-12, 656 lb up at 12-7-0, 656 lb up at 14-7-0, and 656 lb up at 16-7-0, and 656 lb up at 18-7-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618567
PRYOR-F3C	F10GR	FLOOR GIRDER	2	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-26=-10, 1-14=-120
   Concentrated Loads (lb)
   Vert: 5=-34(B) 7=-34(B) 12=209(B) 8=209(B) 4=-34(B) 27=-67(B) 28=-34(B) 29=-34(B) 30=209(B) 31=209(B) 32=209(B) 33=-34(B)

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Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F11	Floor	10	1	I49618568
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:04 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WY6sPkxlb7sN99g9ta0rYWn13MED8rVeXlEitzzwnwX

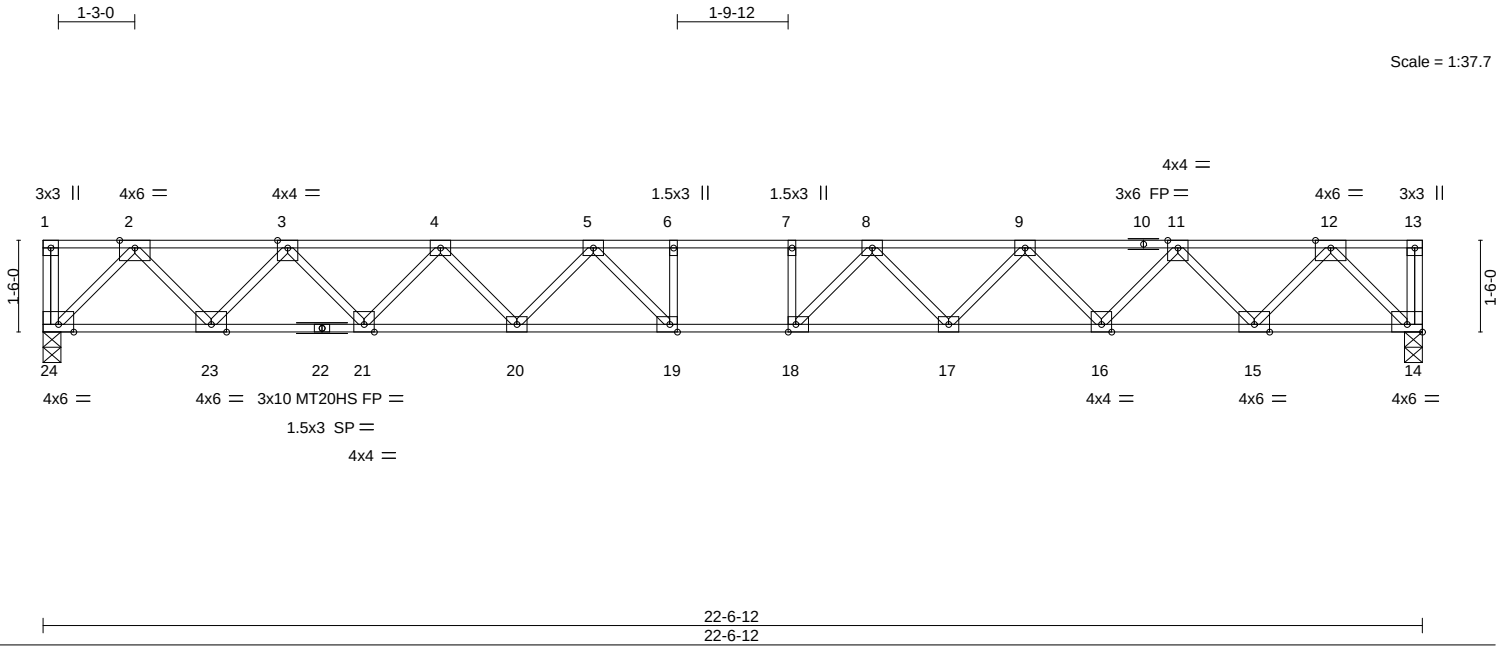

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.38	18-19	>703	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.62	18-19	>433	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 120 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-10: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 14-22: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 21-23.

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=1450(LC 1), 14=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2414/0, 3-4=-4134/0, 4-5=-5255/0, 5-6=-5844/0, 6-7=-5844/0, 7-8=-5844/0, 8-9=-5255/0, 9-11=-4134/0, 11-12=-2413/0
BOT CHORD 23-24=0/1389, 21-23=0/3412, 20-21=0/4835, 19-20=0/5651, 18-19=0/5844, 17-18=0/5651, 16-17=0/4835, 15-16=0/3412, 14-15=0/1389
WEBS 2-24=-1964/0, 2-23=0/1524, 3-23=-1484/0, 3-21=0/1073, 4-21=-1042/0, 4-20=0/624, 5-20=-612/0, 5-19=-154/674, 12-14=-1964/0, 12-15=0/1523, 11-15=-1485/0, 11-16=0/1073, 9-16=-1042/0, 9-17=0/625, 8-17=-613/0, 8-18=-154/674, 7-18=-339/6, 6-19=-339/6

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F12	Floor	5	1	I49618569
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:04 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-WY6sPkxlb7sN99g9ta0rYWn75MK98yAeXlEitzzwnwX

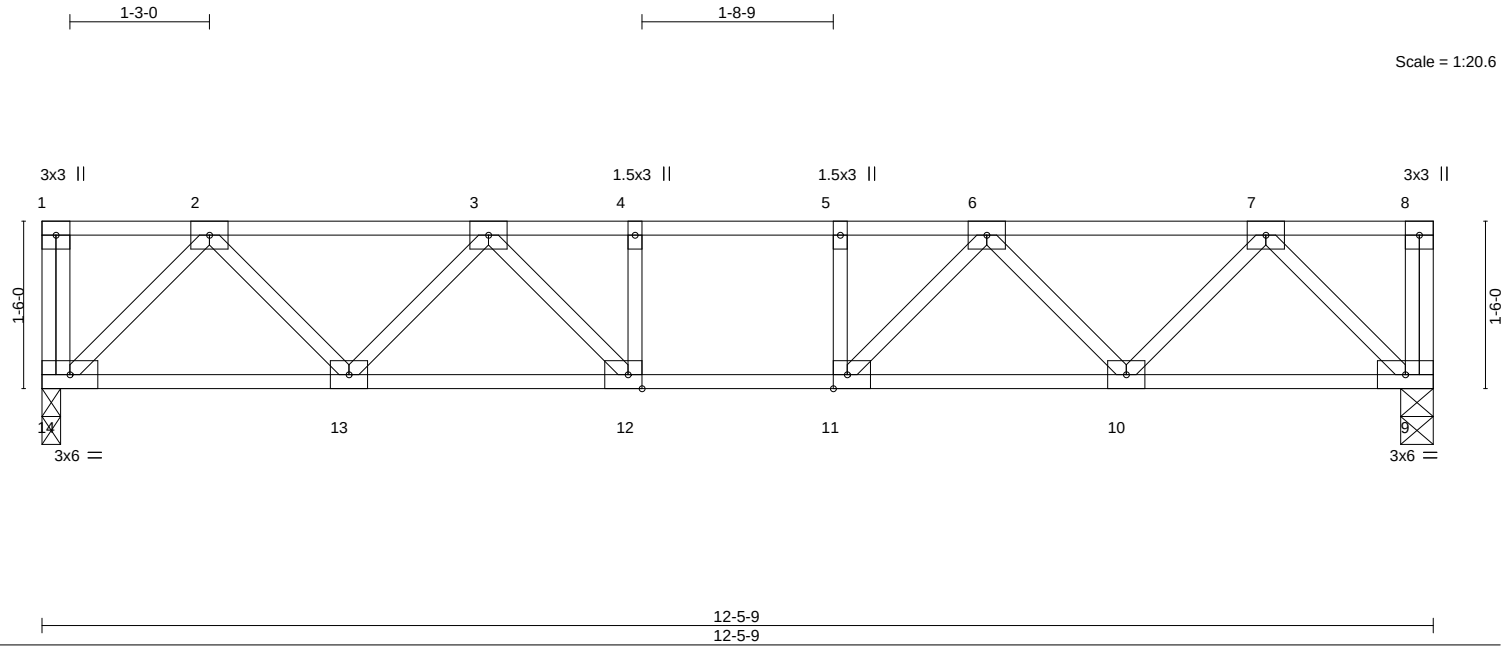

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 69 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-2-0, 9=0-3-8
Max Grav 14=794(LC 1), 9=794(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1161/0, 3-4=-1737/0, 4-5=-1737/0, 5-6=-1737/0, 6-7=-1161/0
BOT CHORD 13-14=0/738, 12-13=0/1556, 11-12=0/1737, 10-11=0/1556, 9-10=0/738
WEBS 2-14=-1044/0, 2-13=0/628, 3-13=-588/0, 3-12=0/430, 7-9=-1044/0, 7-10=0/628, 6-10=-588/0, 6-11=0/430

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F13	FLOOR	2	1	I49618570
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:06 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SwEcqQy?6k65OSqX?_2JexsNOAxZcn5x?3jpyszwnwV

1-3-0 0-11-5 1-8-9 1-6-0

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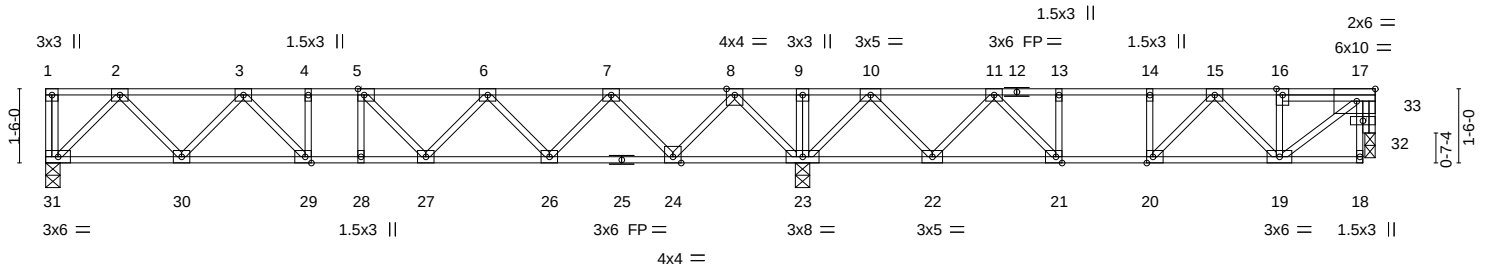

15-3-13 / 15-3-13 — 26-10-14 / 11-7-1

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [17:0-4-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.11	27-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.16	27-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 150 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-3-8, 23=0-3-8, 33=0-2-8
Max Grav 31=868(LC 10), 23=2083(LC 1), 33=606(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1294/0, 3-4=-2064/0, 4-5=-2064/0, 5-6=-2037/0, 6-7=-1546/0, 7-8=-442/204, 8-9=0/1742, 9-10=0/1742, 10-11=-315/634, 11-13=-1068/41, 13-14=-1068/41, 14-15=-1068/41, 15-16=-685/0, 16-17=-688/0
BOT CHORD	30-31=0/810, 29-30=0/1772, 28-29=0/2064, 27-28=0/2064, 26-27=0/1943, 24-26=0/1130, 23-24=-671/0, 22-23=-928/0, 21-22=-342/780, 20-21=-41/1068, 19-20=0/966
WEBS	2-31=-1145/0, 2-30=0/720, 3-30=-710/0, 3-29=0/479, 8-23=-1515/0, 8-24=0/1107, 7-24=-1078/0, 7-26=0/671, 6-26=-642/0, 6-27=0/293, 5-27=-293/52, 10-23=-1229/0, 10-22=0/804, 11-22=-821/0, 11-21=0/697, 13-21=-362/0, 17-19=0/791, 15-19=-406/14, 17-33=-622/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 33.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F14	FLOOR	5	1	I49618571
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:07 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-w6o_2mzdt2Ey0cPkZiZYA9PZpaLGLFw4DjSNUIzwnwU

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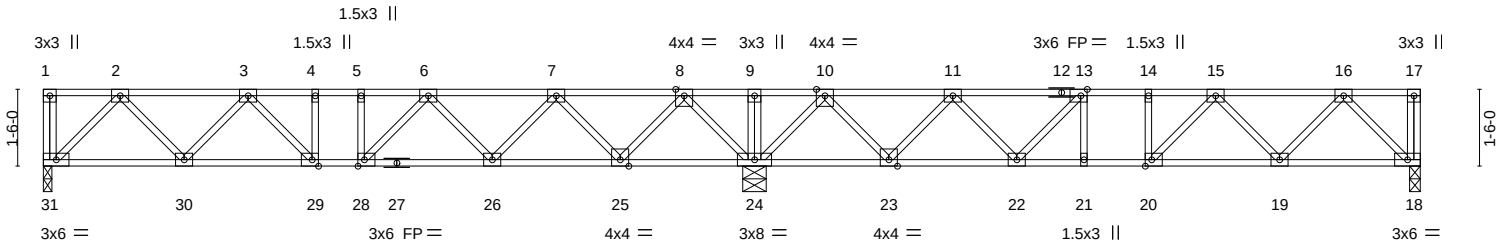

13-10-12 26-10-14
13-10-12 13-0-2

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [20:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.06	26-28	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.09	26-28	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	18	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 31=0-2-0, 18=0-2-8, 24=0-5-8
Max Grav 31=762(LC 3), 18=702(LC 4), 24=2121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/0, 3-4=-1614/0, 4-5=-1614/0, 5-6=-1614/0, 6-7=-1235/0, 7-8=-281/497, 8-9=0/1854, 9-10=0/1854, 10-11=-242/575, 11-13=-1091/82, 13-14=-1368/0, 14-15=-1368/0, 15-16=-989/0
BOT CHORD 30-31=0/706, 29-30=0/1470, 28-29=0/1614, 26-28=0/1540, 25-26=-197/903, 24-25=-858/0, 23-24=-941/0, 22-23=-287/812, 21-22=0/1368, 20-21=0/1368, 19-20=0/1302, 18-19=0/646
WEBS 2-31=-998/0, 2-30=0/586, 3-30=-550/0, 8-24=-1418/0, 8-25=0/1027, 7-25=-998/0, 7-26=0/564, 6-26=-531/0, 6-28=0/400, 10-24=-1357/0, 10-23=0/964, 11-23=-930/0, 11-22=0/512, 13-22=-585/0, 16-18=-914/0, 16-19=0/509, 15-19=-466/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 31, 18.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

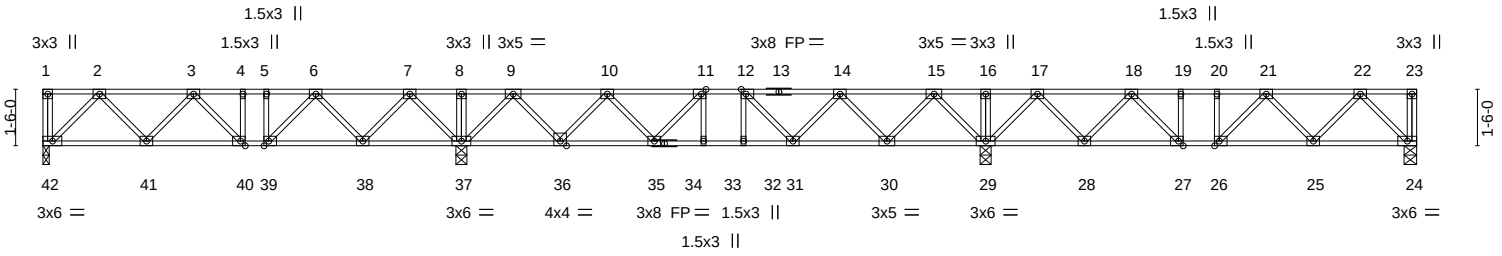
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618572
PRYOR-F3C	F15	FLOOR	9	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:10 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-KhT7gn?WAzdXt47JEq7Fon16FnOvYd1Xwhh15dzwnwR

1-3-0 0-6-0 0-11-4 0-10-0

Scale = 1:61.3



11-1-8 25-0-12 36-6-4
11-1-8 13-11-4 11-5-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	32	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=637(LC 5), 37=1845(LC 3), 29=1846(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-4=-1012/13, 4-5=-1012/13, 5-6=-1012/13, 6-7=-378/469, 7-8=0/1435, 8-9=0/1435, 9-10=-263/291, 10-11=-999/11, 11-12=-1210/0, 12-14=-1014/10, 14-15=-299/288, 15-16=0/1387, 16-17=0/1387, 17-18=-415/419, 18-19=-1098/0, 19-20=-1098/0, 20-21=-1098/0, 21-22=-867/0
BOT CHORD 41-42=0/556, 40-41=0/1046, 39-40=-13/1012, 38-39=-217/803, 37-38=-734/0, 36-37=-569/0, 35-36=-101/780, 33-35=0/1210, 32-33=0/1210, 31-32=0/1210, 30-31=-99/806, 29-30=-538/0, 28-29=-680/0, 27-28=-167/858, 26-27=0/1098, 25-26=0/1116, 24-25=0/581
WEBS 2-42=-786/0, 2-41=0/389, 3-41=-339/23, 7-37=-1165/0, 7-38=0/757, 6-38=-743/0, 6-39=0/514, 3-40=-296/0, 9-37=-1231/0, 9-36=0/846, 10-36=-815/0, 10-35=0/379, 11-35=-375/0, 15-29=-1217/0, 15-30=0/832, 14-30=-802/0, 14-31=0/365, 12-31=-356/0, 17-29=-1179/0, 17-28=0/767, 18-28=-761/0, 18-27=0/559, 22-24=-822/0, 22-25=0/425, 21-25=-370/1, 21-26=-273/5, 19-27=-275/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

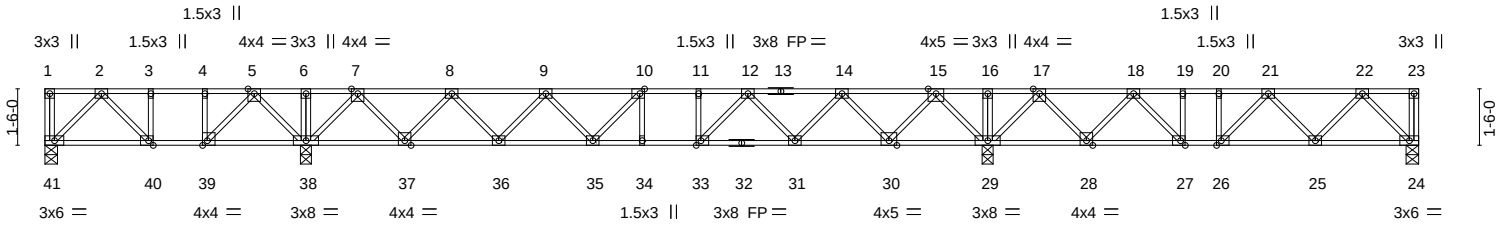
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618573
PRYOR-F3C	F16	FLOOR	5	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:12 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-H4bt5T1miatF6NHhLF9jtC6Otb?_0UaqN?A89WzwnwP

1-3-0 1-3-12 1-4-8 0-10-0

Scale = 1:61.3



6-11-4 25-0-12 36-6-4
6-11-4 18-1-8 11-5-8

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>964	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
32-41: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=337(LC 5), 24=606(LC 5), 38=1871(LC 3), 29=2227(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/454, 3-4=-277/454, 4-5=-277/454, 5-6=0/1406, 6-7=0/1406, 7-8=-546/0, 8-9=-1677/0, 9-10=-2241/0, 10-11=-2295/0, 11-12=-2295/0, 12-14=-1478/0, 14-15=-210/265, 15-16=0/2034, 16-17=0/2034, 17-18=-215/946, 18-19=-969/292, 19-20=-969/292, 20-21=-969/292, 21-22=-809/0
BOT CHORD 40-41=-140/255, 39-40=-454/277, 38-39=-923/0, 37-38=-353/0, 36-37=0/1239, 35-36=0/2112, 34-35=0/2295, 33-34=0/2295, 31-33=0/1967, 30-31=0/992, 29-30=-874/0, 28-29=-1277/0, 27-28=-614/689, 26-27=-292/969, 25-26=-65/1028, 24-25=0/550
WEBS 2-41=-361/197, 2-40=-455/31, 5-38=-889/0, 5-39=0/850, 4-39=-449/0, 7-38=-1518/0, 7-37=0/1128, 8-37=-1079/0, 8-36=0/672, 9-36=-652/0, 9-35=0/251, 15-29=-1642/0, 15-30=0/1242, 14-30=-1204/0, 14-31=0/761, 12-31=-774/0, 12-33=0/669, 11-33=-284/0, 17-29=-1287/0, 17-28=0/868, 18-28=-875/0, 18-27=0/718, 22-24=-778/0, 22-25=-47/384, 21-25=-325/119, 21-26=-432/0, 19-27=-350/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F17	FLOOR	3	1	I49618574
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:14 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DTjeW920EC7zLhR4TgBBydBj7OfpUNO6qJfEEOzwnwN

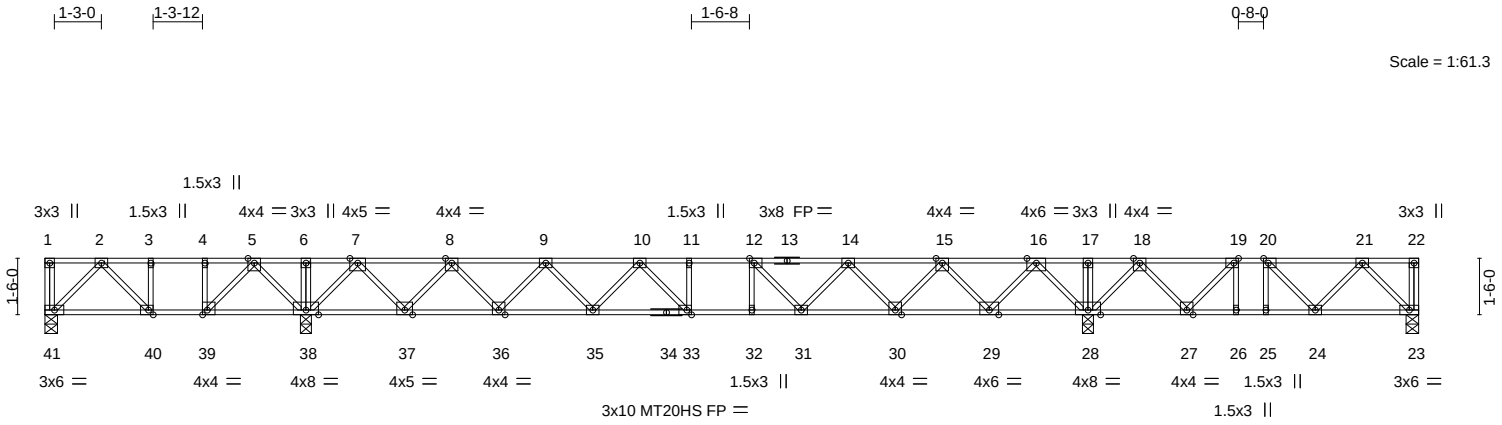

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.20	33-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.32	33-35	>775	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 13-22: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 38=0-3-8, 28=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-188(LC 6), 23=-178(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=297(LC 5), 23=385(LC 5), 38=2119(LC 3), 28=2394(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-179/675, 3-4=-179/675, 4-5=-179/675, 5-6=0/1859, 6-7=0/1859, 7-8=-416/0, 8-9=-1840/0, 9-10=-2686/0, 10-11=-2918/0, 11-12=-2918/0, 12-14=-2488/0, 14-15=-1459/0, 15-16=0/298, 16-17=0/2599, 17-18=0/2599, 18-19=0/1453, 19-20=-352/892, 20-21=-378/473
BOT CHORD 39-40=-675/179, 38-39=-1280/0, 37-38=-639/0, 36-37=0/1269, 35-36=0/2398, 33-35=0/2938, 32-33=0/2918, 31-32=0/2918, 30-31=0/2103, 29-30=0/786, 28-29=-1278/0, 27-28=-1916/0, 26-27=-892/352, 25-26=-892/352, 24-25=-892/352, 23-24=-183/341
WEBS 2-41=-305/322, 2-40=-648/0, 5-38=-1009/0, 5-39=0/1046, 4-39=-558/0, 3-40=-5/326, 7-38=-1736/0, 7-37=0/1347, 8-37=-1294/0, 8-36=0/873, 9-36=-854/0, 9-35=0/448, 10-35=-381/0, 10-33=-270/292, 16-28=-1874/0, 16-29=0/1466, 15-29=-1446/0, 15-30=0/1020, 14-30=-975/0, 14-31=0/609, 12-31=-742/0, 18-28=-1245/0, 18-27=0/897, 19-27=-1036/0, 21-23=-482/259, 21-24=-431/56, 20-24=0/607, 20-25=-435/0, 19-26=0/451

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 41 and 178 lb uplift at joint 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

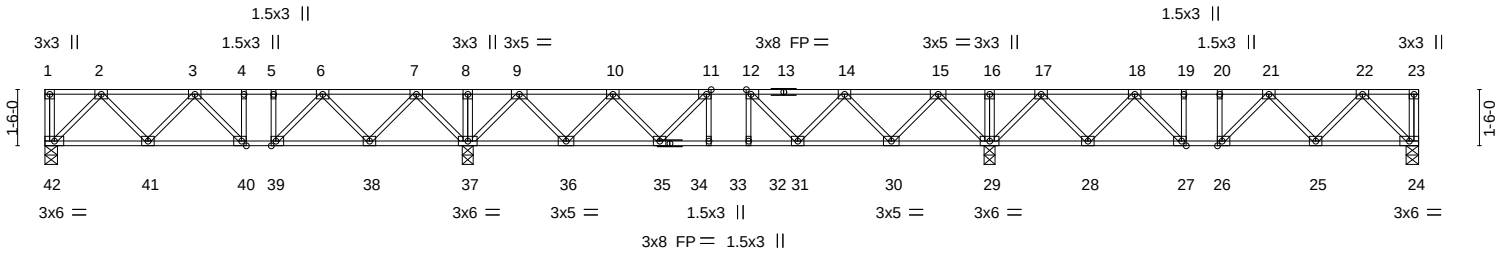
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618575
PRYOR-F3C	F18	FLOOR	3	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:17 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-d2Om8A5vX7VXC8Af8oluaGpIVcnYhonZXHturjzwnwK

1-3-0 0-8-0 0-11-4 0-10-0

Scale = 1:61.5



11-3-8 25-2-12 36-8-4
11-3-8 13-11-4 11-5-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	32	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=624(LC 5), 24=637(LC 5), 37=1849(LC 3), 29=1848(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-842/0, 3-4=-1054/0, 4-5=-1054/0, 5-6=-1054/0, 6-7=-395/449, 7-8=0/1417, 8-9=0/1417, 9-10=-281/291, 10-11=-1013/11, 11-12=-1220/0, 12-14=-1021/10, 14-15=-301/288, 15-16=0/1390, 16-17=0/1390, 17-18=-415/421, 18-19=-1098/0, 19-20=-1098/0, 20-21=-1098/0, 21-22=-867/0
BOT CHORD 41-42=0/568, 40-41=0/1080, 39-40=0/1054, 38-39=-196/829, 37-38=-712/0, 36-37=-556/0, 35-36=-101/796, 33-35=0/1220, 32-33=0/1220, 31-32=0/1220, 30-31=-99/810, 29-30=-538/0, 28-29=-682/0, 27-28=-169/858, 26-27=0/1098, 25-26=0/1116, 24-25=0/581
WEBS 2-42=-804/0, 2-41=0/407, 3-41=-354/13, 3-40=-287/0, 7-37=-1173/0, 7-38=0/762, 6-38=-753/0, 6-39=0/538, 5-39=-261/0, 9-37=-1228/0, 9-36=0/843, 10-36=-812/0, 10-35=0/376, 11-35=-371/0, 15-29=-1220/0, 15-30=0/836, 14-30=-805/0, 14-31=0/368, 12-31=-360/0, 17-29=-1180/0, 17-28=0/767, 18-28=-762/0, 18-27=0/559, 22-24=-822/0, 22-25=0/425, 21-25=-370/1, 21-26=-273/4, 19-27=-275/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

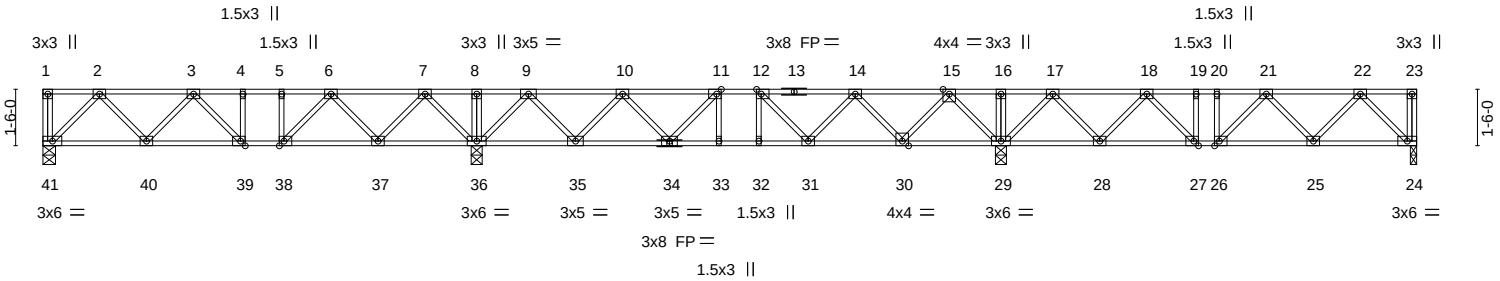
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F19	FLOOR	3	1	I49618576
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:19 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-aQWXZs693klFSSJ1GDnMfhvezPTe9iEs_bM?vczwnwI

1-3-0 0-10-14 0-11-4 0-5-2

Scale = 1:61.3



11-6-6 25-5-10 36-6-4
11-6-6 13-11-4 11-0-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.07	39-40	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-0, 24=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=643(LC 5), 24=606(LC 5), 36=1845(LC 3), 29=1844(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-878/0, 3-4=-1118/0, 4-5=-1118/0, 5-6=-1118/0, 6-7=-425/407, 7-8=0/1374, 8-9=0/1374, 9-10=-308/286, 10-11=-1019/8, 11-12=-1212/0, 12-14=-998/9, 14-15=-258/289, 15-16=0/1442, 16-17=0/1442, 17-18=-372/478, 18-19=-994/25, 19-20=-994/25, 20-21=-994/25, 21-22=-807/0
BOT CHORD 40-41=0/587, 39-40=0/1132, 38-39=0/1118, 37-38=-155/871, 36-37=-666/0, 35-36=-528/0, 34-35=-97/813, 33-34=0/1212, 32-33=0/1212, 31-32=0/1212, 30-31=-99/776, 29-30=-572/0, 28-29=-744/0, 27-28=-226/793, 26-27=-25/994, 25-26=0/1031, 24-25=0/551
WEBS 2-41=-830/0, 2-40=0/433, 3-40=-377/0, 3-39=-266/11, 7-36=-1182/0, 7-37=0/769, 6-37=-765/0, 6-38=0/567, 5-38=-281/0, 9-36=-1214/0, 9-35=0/829, 10-35=-799/0, 10-34=0/361, 11-34=-351/0, 15-29=-1234/0, 15-30=0/849, 14-30=-817/0, 14-31=0/382, 12-31=-379/0, 17-29=-1161/0, 17-28=0/754, 18-28=-739/0, 18-27=0/503, 22-24=-779/0, 22-25=0/382, 21-25=-333/28, 21-26=-299/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

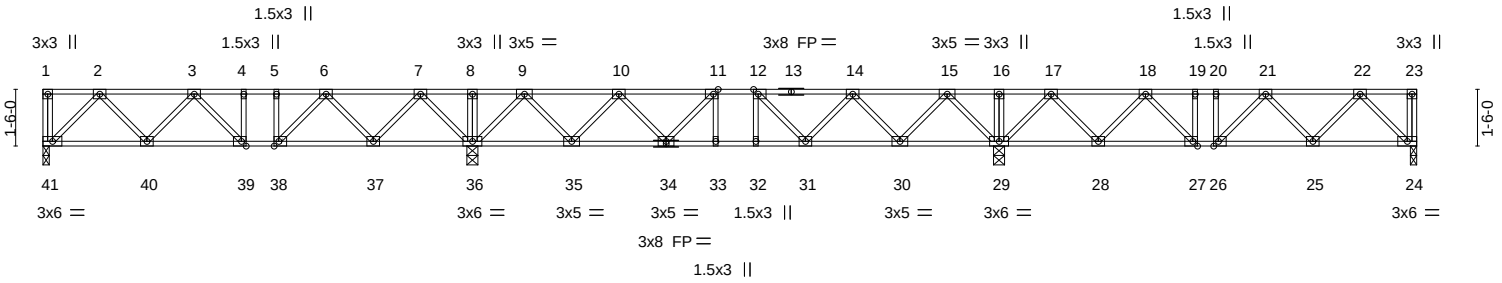
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618577
PRYOR-F3C	F20	FLOOR	4	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_?CfBu92Lf7qJw2cxLL3HJX9DdVEM3?IgYbfWxzwnwF

1-3-0 0-8-14 0-11-4 0-5-2

Scale = 1:61.0



11-4-6	25-3-10	36-4-4
11-4-6	13-11-4	11-0-10

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [38:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 36=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=630(LC 5), 24=606(LC 5), 36=1843(LC 3), 29=1841(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/0, 3-4=-1073/0, 4-5=-1073/0, 5-6=-1073/0, 6-7=-403/433, 7-8=0/1400, 8-9=0/1400, 9-10=-285/290, 10-11=-1002/11, 11-12=-1199/0, 12-14=-990/11, 14-15=-255/290, 15-16=0/1439, 16-17=0/1439, 17-18=-372/475, 18-19=-995/23, 19-20=-995/23, 20-21=-995/23, 21-22=-807/0
BOT CHORD 40-41=0/574, 39-40=0/1096, 38-39=0/1073, 37-38=-181/842, 36-37=-694/0, 35-36=-548/0, 34-35=-101/793, 33-34=0/1199, 32-33=0/1199, 31-32=0/1199, 30-31=-100/771, 29-30=-572/0, 28-29=-741/0, 27-28=-223/793, 26-27=-23/995, 25-26=0/1031, 24-25=0/551
WEBS 2-41=-812/0, 2-40=0/414, 3-40=-361/7, 3-39=-280/0, 7-36=-1175/0, 7-37=0/764, 6-37=-756/0, 6-38=0/546, 5-38=-267/0, 9-36=-1218/0, 9-35=0/833, 10-35=-803/0, 10-34=0/366, 11-34=-357/0, 15-29=-1230/0, 15-30=0/845, 14-30=-813/0, 14-31=0/377, 12-31=-373/0, 17-29=-1160/0, 17-28=0/753, 18-28=-738/0, 18-27=0/502, 22-24=-779/0, 22-25=0/382, 21-25=-333/27, 21-26=-299/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 41, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

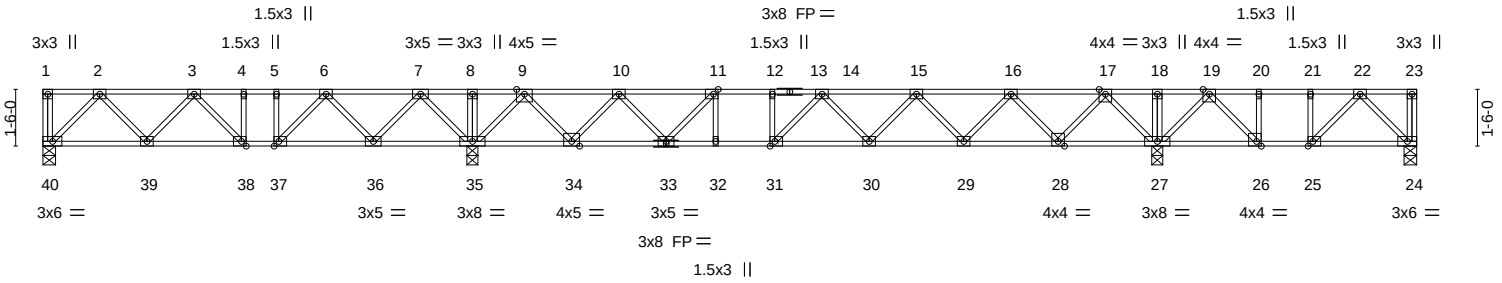
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F21	FLOOR	5	1	I49618578
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:24 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wOJQcaAltGOYYDC?2mNYMkcQ?Q37qwtb8s4mapzwnwD

1-3-0 0-8-14 1-4-8 1-2-14

Scale = 1:61.0



11-4-6 29-5-14 36-4-4
11-4-6 18-1-8 6-10-6

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [37:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	30-31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.27	30-31	>792	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
33-40: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 35=0-3-8, 27=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 24=-133(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 40=605(LC 5), 24=318(LC 5), 35=2188(LC 16), 27=1920(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-807/0, 3-4=-973/243, 4-5=-973/243, 5-6=-973/243, 6-7=-249/855, 7-8=0/1917, 8-9=0/1917, 9-10=-285/229, 10-11=-1536/0, 11-12=-2132/0, 12-14=-2132/0, 14-15=-2230/0, 15-16=-1598/0, 16-17=-436/0, 17-18=0/1548, 18-19=0/1548, 19-20=-236/531, 20-21=-236/531, 21-22=-236/531
BOT CHORD 39-40=0/550, 38-39=-36/1027, 37-38=-243/973, 36-37=-539/711, 35-36=-1175/0, 34-35=-769/0, 33-34=0/1037, 32-33=0/2132, 31-32=0/2132, 30-31=0/2342, 29-30=0/2048, 28-29=0/1149, 27-28=-477/0, 26-27=-1039/0, 25-26=-531/236
WEBS 2-40=-777/0, 2-39=-35/383, 3-39=-326/102, 7-35=-1264/0, 7-36=0/845, 6-36=-846/0, 6-37=0/674, 3-38=-407/0, 5-37=-326/0, 17-27=-1545/0, 17-28=0/1160, 16-28=-1107/0, 16-29=0/685, 15-29=-675/0, 15-30=0/276, 14-31=-476/18, 9-35=-1624/0, 9-34=0/1199, 10-34=-1155/0, 10-33=0/788, 11-33=-928/0, 11-32=0/312, 19-27=-929/0, 19-26=0/901, 22-24=-335/247, 22-25=-516/0, 20-26=-471/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

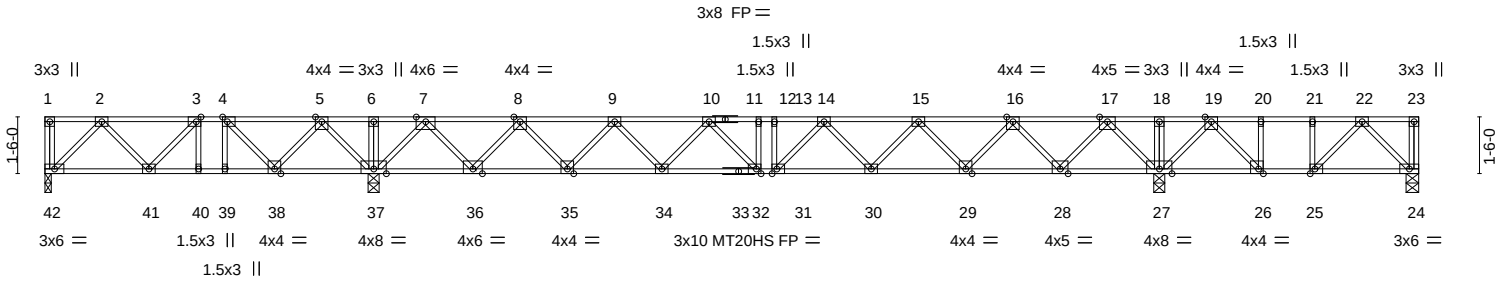
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F22	FLOOR	3	1	I49618579
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:26 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-smRA1FCYPueGoXMNABP0S9hl2EnMInBtbAZtfizwnwB

1-3-0 0-6-14 0-3-8 1-2-14

Scale = 1:61.0



8-8-6 29-5-14 36-4-4
8-8-6 20-9-8 6-10-6

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.18	31	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.29	30-31	>864	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	27	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 11-23: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-2-0, 24=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 42=-220(LC 6), 24=-185(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 42=361(LC 5), 24=297(LC 5), 37=2451(LC 16), 27=2093(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-332/554, 3-4=-285/1007, 4-5=0/1599, 5-6=0/2839, 6-7=0/2839, 7-8=0/543, 8-9=-1307/0, 9-10=-2363/0, 10-12=-2881/0, 12-13=-2881/0, 13-14=-2881/0, 14-15=-2626/0, 15-16=-1826/0, 16-17=-435/0, 17-18=0/1807, 18-19=0/1807, 19-20=-184/657, 20-21=-184/657, 21-22=-184/657
BOT CHORD 41-42=-225/316, 40-41=-1007/285, 39-40=-1007/285, 38-39=-1007/285, 37-38=-2097/0, 36-37=-1492/0, 35-36=0/617, 34-35=0/1974, 32-34=0/2732, 31-32=0/2881, 30-31=0/2874, 29-30=0/2363, 28-29=0/1271, 27-28=-605/0, 26-27=-1246/0, 25-26=-657/184
WEBS 2-42=-447/318, 2-41=-490/23, 5-37=-1297/0, 5-38=0/952, 4-38=-1080/0, 3-41=0/657, 3-40=-441/0, 4-39=0/455, 7-37=-1904/0, 7-36=0/1492, 8-36=-1468/0, 8-35=0/1052, 9-35=-1015/0, 9-34=0/600, 10-34=-572/0, 17-27=-1710/0, 17-28=0/1322, 16-28=-1273/0, 16-29=0/854, 15-29=-827/0, 15-30=0/415, 14-30=-375/0, 14-31=-259/274, 10-32=-86/446, 19-27=-990/0, 19-26=0/1021, 22-24=-308/311, 22-25=-633/0, 21-25=-0/333, 20-26=-560/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 42 and 185 lb uplift at joint 24.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F23	Floor	14	1	I49618580
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:29 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-HL7JfHERip0qf_4yrKzj3oJMTRuKVDmKH8nXG1zwnw8

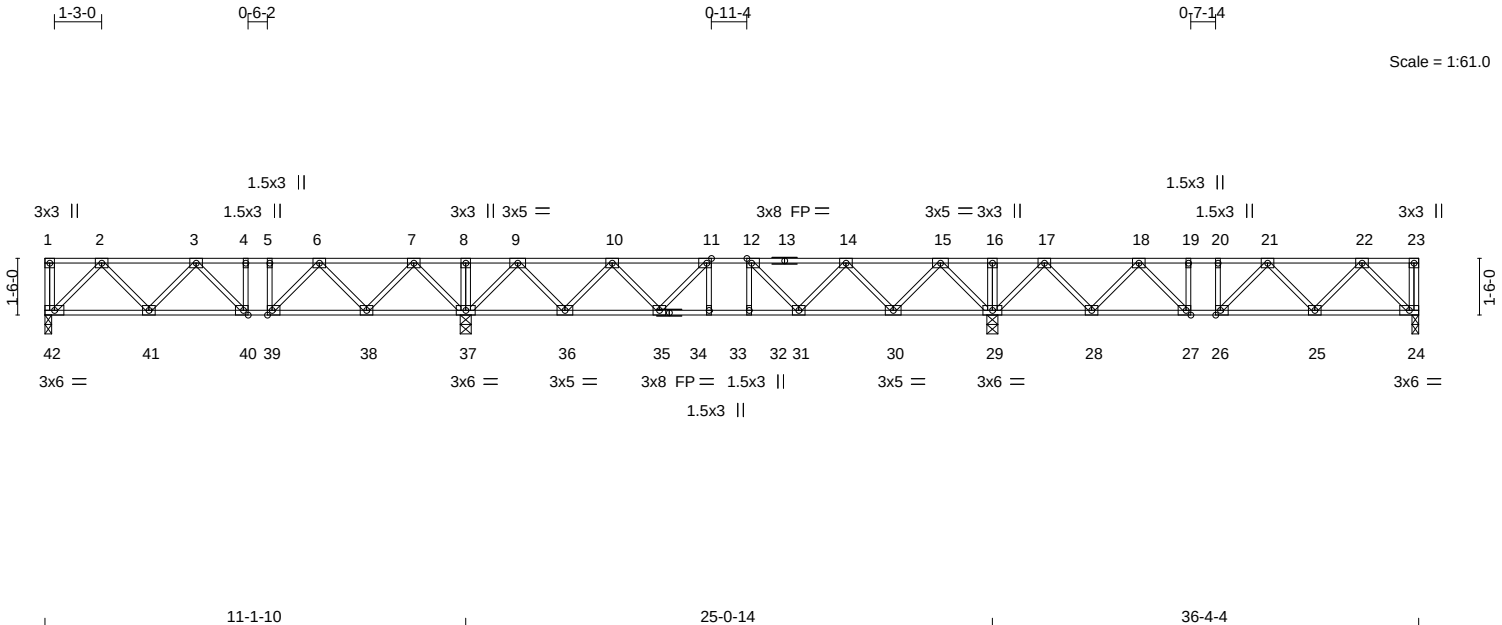

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 202 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-2 except (jt=length) 37=0-3-8, 29=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=612(LC 5), 24=623(LC 5), 37=1842(LC 3), 29=1843(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-819/0, 3-4=-1015/9, 4-5=-1015/9, 5-6=-1015/9, 6-7=-380/465, 7-8=0/1431, 8-9=0/1431, 9-10=-262/291, 10-11=-992/12, 11-12=-1198/0, 12-14=-998/12, 14-15=-276/291, 15-16=0/1412, 16-17=0/1412, 17-18=-394/445, 18-19=-1051/0, 19-20=-1051/0, 20-21=-1051/0, 21-22=-841/0
BOT CHORD 41-42=0/557, 40-41=0/1048, 39-40=-9/1015, 38-39=-213/805, 37-38=-730/0, 36-37=-568/0, 35-36=-102/776, 33-35=0/1198, 32-33=0/1198, 31-32=0/1198, 30-31=-102/786, 29-30=-557/0, 28-29=-708/0, 27-28=-193/828, 26-27=0/1051, 25-26=0/1078, 24-25=0/568
WEBS 2-42=-787/0, 2-41=0/390, 3-41=-340/22, 3-40=-295/0, 7-37=-1165/0, 7-38=0/756, 6-38=-743/0, 6-39=0/515, 9-37=-1227/0, 9-36=0/842, 10-36=-811/0, 10-35=0/374, 11-35=-369/0, 15-29=-1221/0, 15-30=0/837, 14-30=-806/0, 14-31=0/369, 12-31=-361/0, 22-24=-803/0, 22-25=0/406, 21-25=-353/12, 21-26=-286/0, 17-29=-1171/0, 17-28=0/761, 18-28=-752/0, 18-27=0/536, 19-27=-260/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 42, 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F24	Floor	15	1	I49618581
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:31 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DkE34zGhEQGYuIELzk?B9DOe6FUMz4EdlSGeKvzwnw6

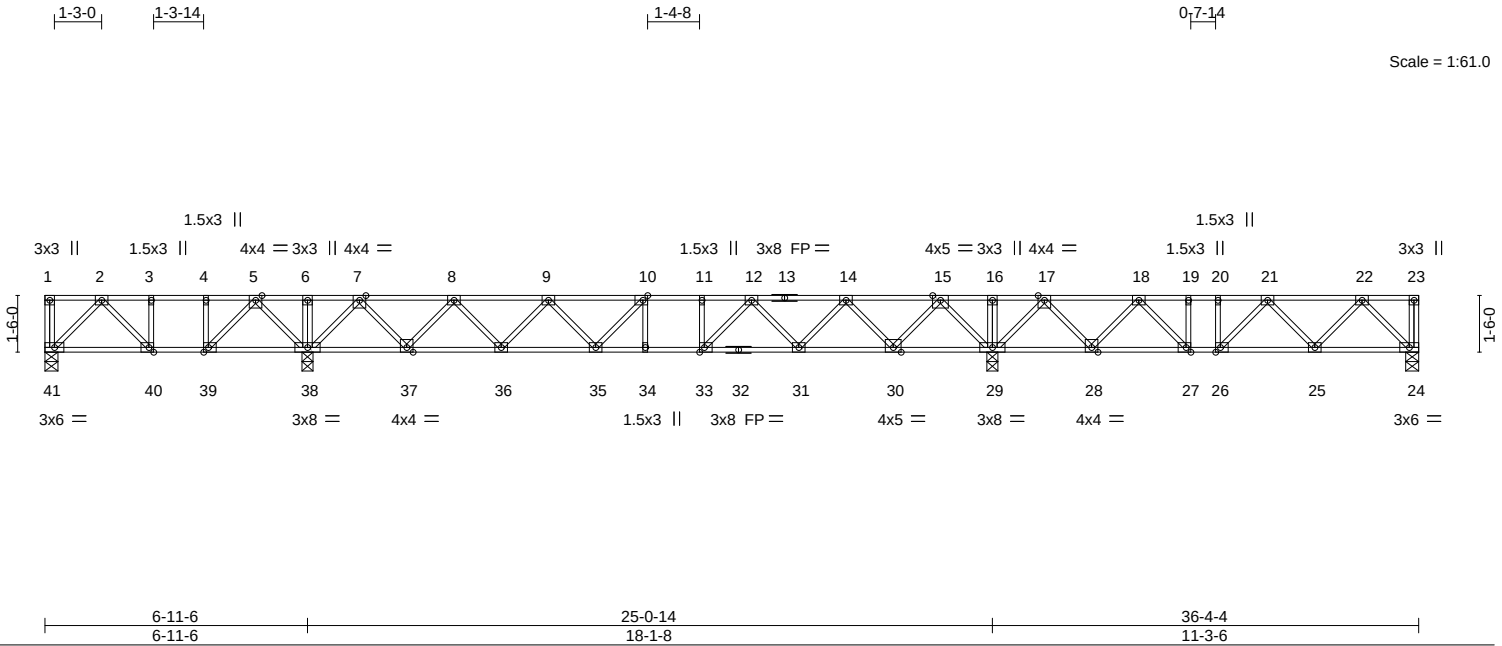

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.14	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	34-35	>965	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
24-32: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-2 except (jt=length) 38=0-3-8, 29=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 41
Max Grav All reactions 250 lb or less at joint(s) except 41=338(LC 5), 24=590(LC 5), 38=1865(LC 3), 29=2230(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/447, 3-4=-280/447, 4-5=-280/447, 5-6=0/1395, 6-7=0/1395, 7-8=-550/0, 8-9=-1671/0, 9-10=-2227/0, 10-11=-2274/0, 11-12=-2274/0, 12-14=-1446/0, 14-15=-169/275, 15-16=0/2080, 16-17=0/2080, 17-18=-189/984, 18-19=-918/334, 19-20=-918/334, 20-21=-918/334, 21-22=-779/13
BOT CHORD 40-41=-137/257, 39-40=-447/280, 38-39=-913/0, 37-38=-347/0, 36-37=0/1238, 35-36=0/2103, 34-35=0/2274, 33-34=0/2274, 31-33=0/1939, 30-31=0/956, 29-30=-915/0, 28-29=-1322/0, 27-28=-649/654, 26-27=-334/918, 25-26=-104/986, 24-25=0/535
WEBS 2-41=-363/193, 2-40=-450/34, 5-38=-886/0, 5-39=0/846, 4-39=-448/0, 7-38=-1512/0, 7-37=0/1122, 8-37=-1072/0, 8-36=0/666, 9-36=-646/0, 15-29=-1648/0, 15-30=0/1249, 14-30=-1209/0, 14-31=0/766, 12-31=-780/0, 12-33=0/674, 11-33=-287/0, 17-29=-1285/0, 17-28=0/868, 18-28=-869/0, 18-27=0/694, 19-27=-333/0, 22-24=-757/0, 22-25=-68/363, 21-25=-307/135, 21-26=-445/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F25	Floor	9	1	I49618582
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:33 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-97MpVfHxm1WG7cOk491fEeUxA37ARyrvCmllPozwnw4

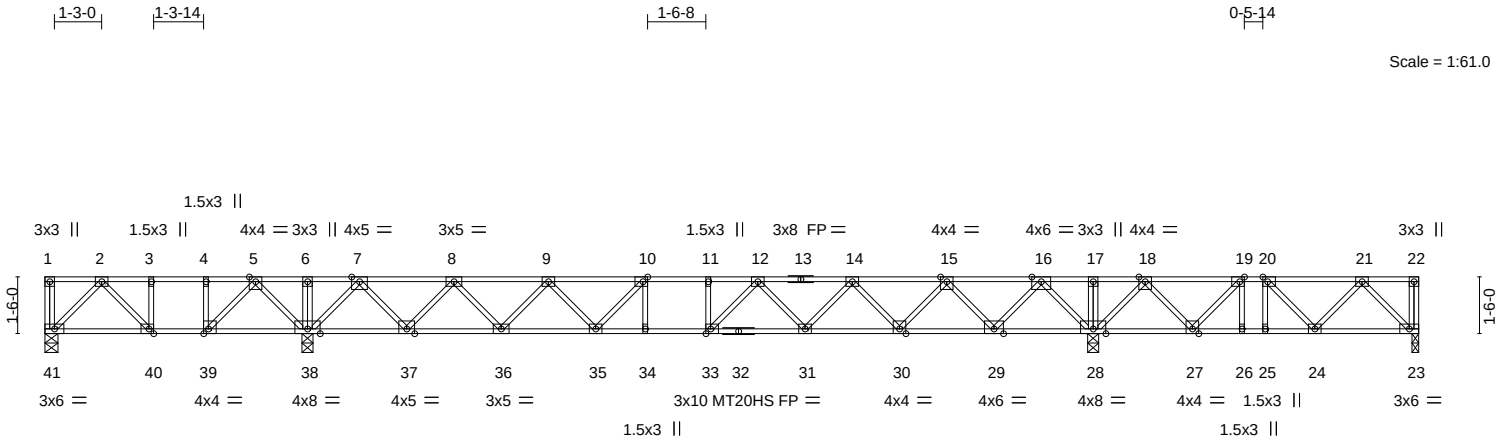

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.18	34	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.29	33-34	>868	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=0-4-2, 23=0-2-2.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-163(LC 6), 23=-234(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=308(LC 5), 23=352(LC 5), 38=2069(LC 3), 28=2459(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-206/614, 3-4=-206/614, 4-5=-206/614, 5-6=0/1737, 6-7=0/1737, 7-8=-489/0, 8-9=-1871/0, 9-10=-2656/0, 10-11=-2903/0, 11-12=-2903/0, 12-14=-2364/0, 14-15=-1294/0, 15-16=0/499, 16-17=0/2860, 17-18=0/2860, 18-19=0/1624, 19-20=-269/1034, 20-21=-317/579
BOT CHORD 39-40=-614/206, 38-39=-1186/0, 37-38=-542/0, 36-37=0/1319, 35-36=0/2405, 34-35=0/2903, 33-34=0/2903, 31-33=0/2741, 30-31=0/1968, 29-30=0/594, 28-29=-1507/0, 27-28=-2129/0, 26-27=-1034/269, 25-26=-1034/269, 24-25=-1034/269, 23-24=-240/307
WEBS 2-41=-324/280, 2-40=-602/0, 3-40=-10/317, 5-38=-968/0, 5-39=0/1000, 4-39=-551/0, 7-38=-1700/0, 7-37=0/1310, 8-37=-1261/0, 8-36=0/844, 9-36=-816/0, 9-35=0/452, 10-35=-505/0, 16-28=-1913/0, 16-29=0/1500, 15-29=-1476/0, 15-30=0/1059, 14-30=-1022/0, 14-31=0/606, 12-31=-582/0, 12-33=-39/510, 18-28=-1304/0, 18-27=0/952, 19-27=-1067/0, 19-26=0/459, 21-23=-434/339, 21-24=-504/15, 20-24=0/660, 20-25=-446/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 41 and 234 lb uplift at joint 23.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F26	FLOOR	2	1	I49618583
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:35 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-6VUawKJBHfm_NvY6Ca37J3ZNzsxgvxGCf4ErTgzwnw2

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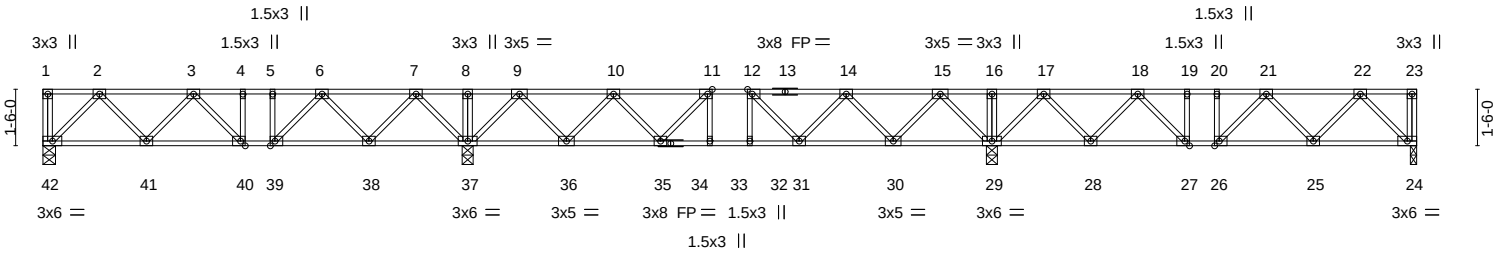

11-3-8 25-2-12 36-6-4
11-3-8 13-11-4 11-3-8

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.05	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.06	33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 203 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 42=0-4-0, 24=0-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 42=624(LC 5), 24=624(LC 5), 37=1846(LC 3), 29=1846(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-842/0, 3-4=-1054/0, 4-5=-1054/0, 5-6=-1054/0, 6-7=-395/446, 7-8=0/1414, 8-9=0/1414, 9-10=-279/291, 10-11=-1005/12, 11-12=-1208/0, 12-14=-1005/12, 14-15=-279/291, 15-16=0/1414, 16-17=0/1414, 17-18=-395/446, 18-19=-1054/0, 19-20=-1054/0, 20-21=-1054/0, 21-22=-842/0
BOT CHORD 41-42=0/568, 40-41=0/1080, 39-40=0/1054, 38-39=-194/829, 37-38=-709/0, 36-37=-556/0, 35-36=-102/791, 33-35=0/1208, 32-33=0/1208, 31-32=0/1208, 30-31=-102/791, 29-30=-556/0, 28-29=-709/0, 27-28=-194/830, 26-27=0/1054, 25-26=0/1081, 24-25=0/568
WEBS 2-42=-804/0, 2-41=0/407, 3-41=-354/12, 7-37=-1172/0, 7-38=0/762, 6-38=-753/0, 6-39=0/537, 3-40=-286/0, 5-39=-261/0, 9-37=-1224/0, 9-36=0/839, 10-36=-809/0, 10-35=0/372, 11-35=-365/0, 15-29=-1224/0, 15-30=0/839, 14-30=-809/0, 14-31=0/372, 12-31=-365/0, 17-29=-1172/0, 17-28=0/762, 18-28=-753/0, 22-24=-804/0, 22-25=0/407, 21-25=-354/12, 21-26=-286/0, 18-27=0/537, 19-27=-261/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 24.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F27	FLOOR	5	1	I49618584
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:37 2022 Page 1
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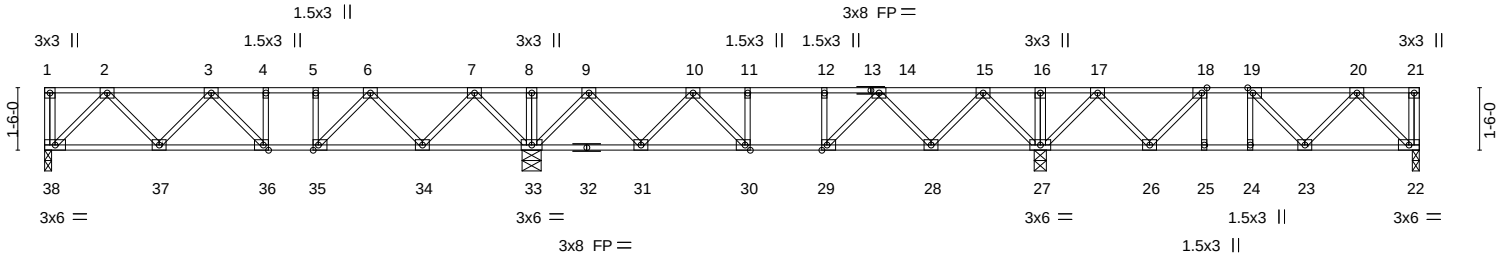
Scale = 1:55.3



11-8-6	23-11-0	33-0-4
11-8-6	12-2-10	9-1-4

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [19:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge], [35:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.05	36-37	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.08	36-37	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	22	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 33=0-5-8, 27=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=666(LC 5), 22=504(LC 5), 33=1714(LC 16), 27=1516(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-922/0, 3-4=-1207/0, 4-5=-1207/0, 5-6=-1207/0, 6-7=-514/221, 7-8=0/1140, 8-9=0/1140, 9-10=-371/234, 10-11=-971/0, 11-12=-971/0, 12-14=-971/0, 14-15=-412/113, 15-16=0/949, 16-17=0/949, 17-18=-387/251, 18-19=-709/14, 19-20=-604/0
BOT CHORD 37-38=0/610, 36-37=0/1197, 35-36=0/1207, 34-35=0/959, 33-34=-458/58, 31-33=-435/0, 30-31=-65/776, 29-30=0/971, 28-29=0/802, 27-28=-284/0, 26-27=-460/85, 25-26=-14/709, 24-25=-14/709, 23-24=-14/709, 22-23=0/457
WEBS 2-38=-863/0, 2-37=0/464, 3-37=-408/0, 7-33=-1159/0, 7-34=0/742, 6-34=-737/0, 6-35=0/545, 5-35=-275/0, 9-33=-1079/0, 9-31=0/669, 10-31=-650/0, 10-30=0/380, 15-27=-1032/0, 15-28=0/629, 14-28=-600/0, 14-29=0/276, 17-27=-924/0, 17-26=0/547, 18-26=-597/0, 20-22=-646/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 22.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

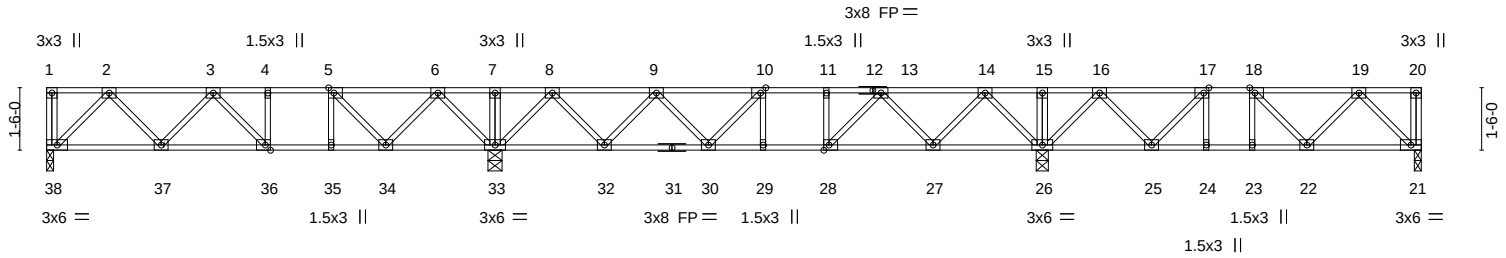
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F28	FLOOR	1	1	I49618585
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:39 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-_Gj4miMiLtGQrXrtRQ83Tvk1fTDqrmfoaiC3cSzwnw_

1-3-0 1-4-12 1-4-12 0-11-12

Scale = 1:55.3



10-9-4 23-11-0 33-0-4
10-9-4 13-1-12 9-1-4

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [28:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	36-37	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.12	36-37	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-2-0 except (jt=length) 33=0-4-1, 26=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=617(LC 5), 21=512(LC 5), 33=1735(LC 16), 26=1558(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-834/0, 3-4=-990/7, 4-5=-990/7, 5-6=-530/314, 6-7=0/1151, 7-8=0/1151, 8-9=-424/61, 9-10=-1092/0, 10-11=-1231/0, 11-13=-1231/0, 13-14=-549/0, 14-15=0/864, 15-16=0/864, 16-17=-425/180, 17-18=-736/0, 18-19=-620/0
BOT CHORD 37-38=0/562, 36-37=0/1058, 35-36=-7/990, 34-35=-7/990, 33-34=-571/121, 32-33=-341/0, 30-32=0/906, 29-30=0/1231, 28-29=0/1231, 27-28=0/989, 25-26=-373/132, 24-25=0/736, 23-24=0/736, 22-23=0/736, 21-22=0/465
WEBS 2-38=-795/0, 2-37=0/404, 3-37=-333/19, 6-33=-1040/0, 6-34=0/709, 5-34=-808/0, 3-36=-311/0, 14-26=-1098/0, 14-27=0/687, 13-27=-686/0, 13-28=0/416, 8-33=-1155/0, 8-32=0/786, 9-32=-762/0, 9-30=0/309, 10-30=-259/0, 16-26=-903/0, 16-25=0/523, 17-25=-567/0, 19-21=-657/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 38, 21.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

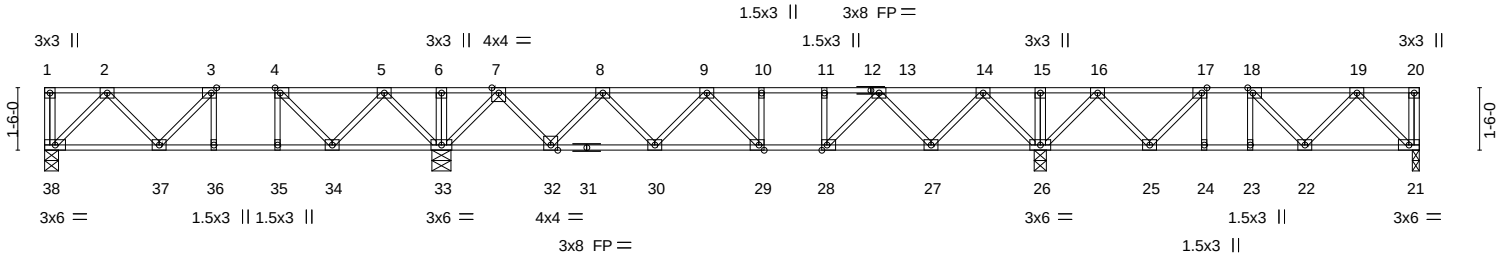
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F29	FLOOR	5	1	I49618586
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:41 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-wfrrAONytVX75q?GYrAXYKpQPHvpJfO520hAgKzwnvy

1-3-0 1-4-14 1-4-10 0-11-12

Scale = 1:55.3



9-6-6 23-11-0 33-0-4
9-6-6 14-4-10 9-1-4

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.09	29-30	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	29-30	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 182 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 21=0-2-0, 33=0-5-8, 26=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 38=521(LC 5), 21=507(LC 5), 33=1776(LC 16), 26=1656(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/0, 3-4=-743/145, 4-5=-366/475, 5-6=0/1337, 6-7=0/1337, 7-8=-436/40, 8-9=-1248/0, 9-10=-1437/0, 10-11=-1437/0, 11-13=-1437/0, 13-14=-582/0, 14-15=0/973, 15-16=0/973, 16-17=-404/263, 17-18=-721/22, 18-19=-611/0
BOT CHORD 37-38=0/478, 36-37=-145/743, 35-36=-145/743, 34-35=-145/743, 33-34=-740/27, 32-33=-440/0, 30-32=0/984, 29-30=0/1475, 28-29=0/1437, 27-28=0/1085, 25-26=-473/107, 24-25=-22/721, 23-24=-22/721, 22-23=-22/721, 21-22=0/460
WEBS 2-38=-676/0, 5-33=-991/0, 5-34=0/643, 4-34=-746/0, 14-26=-1209/0, 14-27=0/787, 13-27=-796/0, 13-28=0/574, 11-28=-298/0, 7-33=-1273/0, 7-32=0/887, 8-32=-869/0, 8-30=0/443, 9-30=-376/0, 16-26=-917/0, 16-25=0/539, 17-25=-593/0, 19-21=-651/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F30	Floor	2	1	I49618587
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:43 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-t2zbb3PDP6nrK89fgGD?elul65ahnX?OVKAHkDzwnvw

1-3-0 1-4-14 1-9-6 1-9-0

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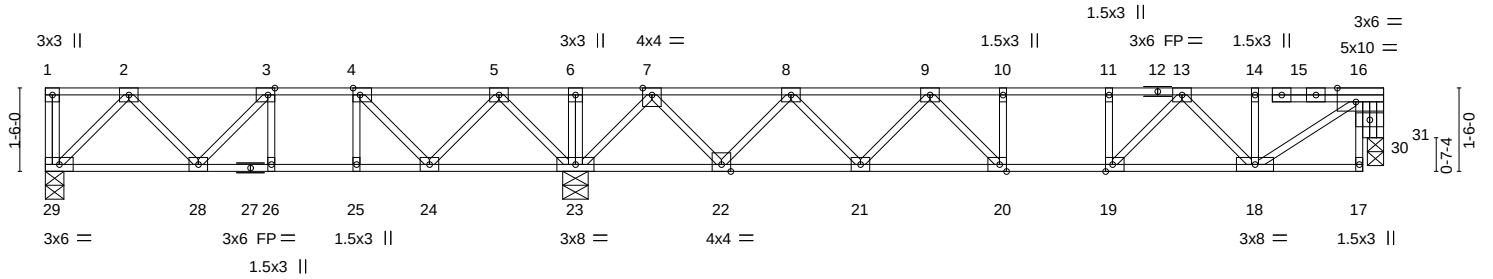

9-6-6 24-0-12
9-6-6 14-6-6

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:0-4-0,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.10	20-21	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.16	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 135 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat) *Except* 16-18: 2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 29=0-4-0, 23=0-5-8, 31=0-3-8
Max Grav 29=516(LC 3), 23=1868(LC 1), 31=794(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-626/26, 3-4=-724/203, 4-5=-339/559, 5-6=0/1437, 6-7=0/1437, 7-8=-493/0, 8-9=-1476/0, 9-10=-1837/0, 10-11=-1837/0, 11-13=-1837/0, 13-14=-1048/0, 14-16=-1051/0
BOT CHORD	28-29=0/473, 26-28=-203/724, 25-26=-203/724, 24-25=-203/724, 23-24=-841/0, 22-23=-449/0, 21-22=0/1128, 20-21=0/1780, 19-20=0/1837, 18-19=0/1481
WEBS	2-29=-669/0, 3-28=-141/257, 5-23=-1014/0, 5-24=0/672, 4-24=-788/0, 4-25=0/267, 7-23=-1398/0, 7-22=0/1007, 8-22=-984/0, 8-21=0/554, 9-21=-501/0, 9-20=-10/340, 16-18=0/1144, 13-18=-627/0, 13-19=0/547, 11-19=-303/0, 16-31=-825/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Bearing at joint(s) 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F31	Floor	2	1	I49618588
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:44 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-LEXzpPQrAQviyIkrDzkEAyRwaU_nW0SXk_wqHfzwnvv

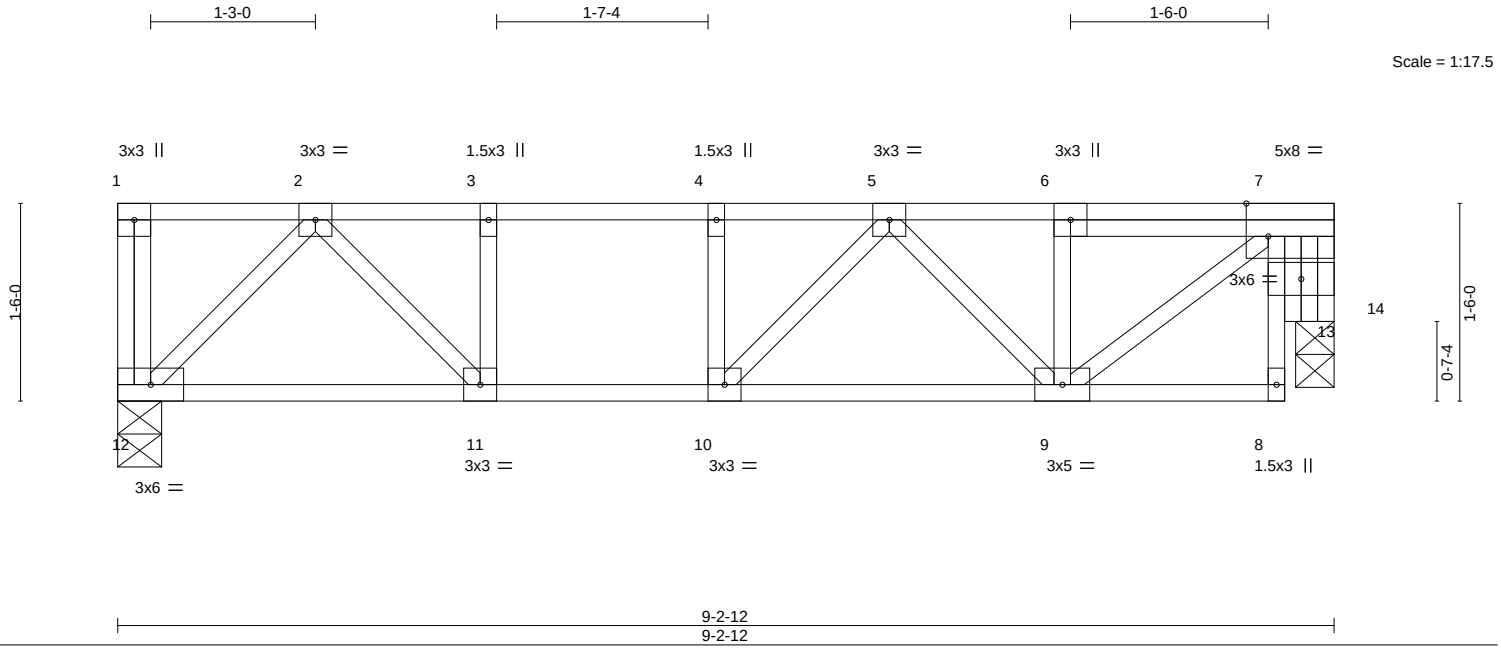

Plate Offsets (X,Y)-- [7:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.09	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 57 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 14=0-3-8
Max Grav 12=577(LC 1), 14=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-875/0, 3-4=-875/0, 4-5=-875/0, 5-6=-630/0, 6-7=-633/0
BOT CHORD	11-12=0/499, 10-11=0/875, 9-10=0/857
WEBS	7-9=0/710, 5-9=-329/0, 2-12=-706/0, 2-11=0/560, 3-11=-312/0, 7-14=-572/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

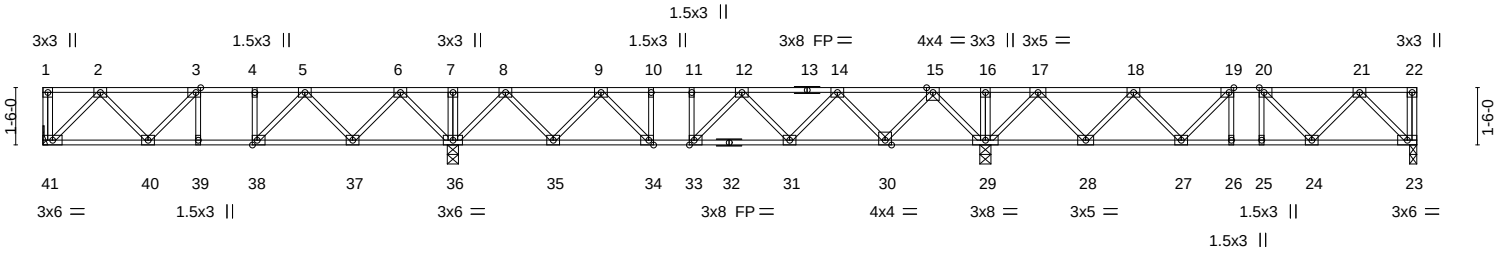
Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F46	Floor	7	1	I49618589
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:46 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-HdekE5R5i19QBctDLOmiFNWFrIf__vRqBHPxLYzwnvt

1-3-0 1-4-4 0-11-4 0-8-0

Scale = 1:60.3



10-8-12 24-8-0 35-11-8
10-8-12 13-11-4 11-3-8

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge], [38:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.06	31-33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.09	31-33	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	23	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%F, 3%E

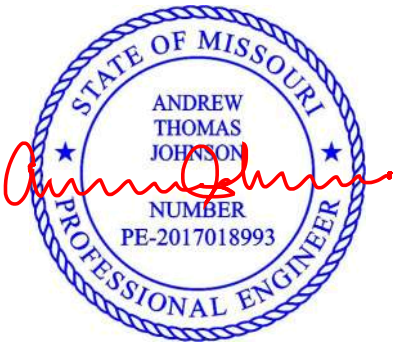
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-2-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 41=604(LC 5), 23=606(LC 5), 36=1720(LC 3), 29=1932(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-798/0, 3-4=-1015/0, 4-5=-1015/0, 5-6=-466/240, 6-7=0/1125, 7-8=0/1125, 8-9=-469/184, 9-10=-1204/0, 10-11=-1204/0, 11-12=-1204/0, 12-14=-1000/39, 14-15=-174/380, 15-16=0/1658, 16-17=0/1658, 17-18=-291/588, 18-19=-907/143, 19-20=-1044/0, 20-21=-800/0
BOT CHORD 40-41=0/553, 39-40=0/1015, 38-39=0/1015, 37-38=-26/851, 36-37=-460/65, 35-36=-361/22, 34-35=-25/933, 33-34=0/1204, 31-33=0/1232, 30-31=-162/731, 29-30=-738/0, 28-29=-879/0, 27-28=-320/749, 26-27=0/1044, 25-26=0/1044, 24-25=0/1044, 23-24=0/551
WEBS 2-41=-782/0, 2-40=0/363, 3-40=-314/38, 6-36=-1073/0, 6-37=0/664, 5-37=-659/0, 5-38=0/439, 8-36=-1156/0, 8-35=0/741, 9-35=-736/0, 9-34=0/456, 15-29=-1300/0, 15-30=0/913, 14-30=-887/0, 14-31=0/458, 12-31=-409/0, 21-23=-779/0, 21-24=-7/371, 20-24=-353/75, 17-29=-1207/0, 17-28=0/826, 18-28=-794/0, 18-27=0/379, 19-27=-424/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.



January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F47	FLOOR	5	1	I49618590
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:49 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-hCKss7Uz_yX?23co0WKPt08itVaCBE1GuFdbytzwnvq

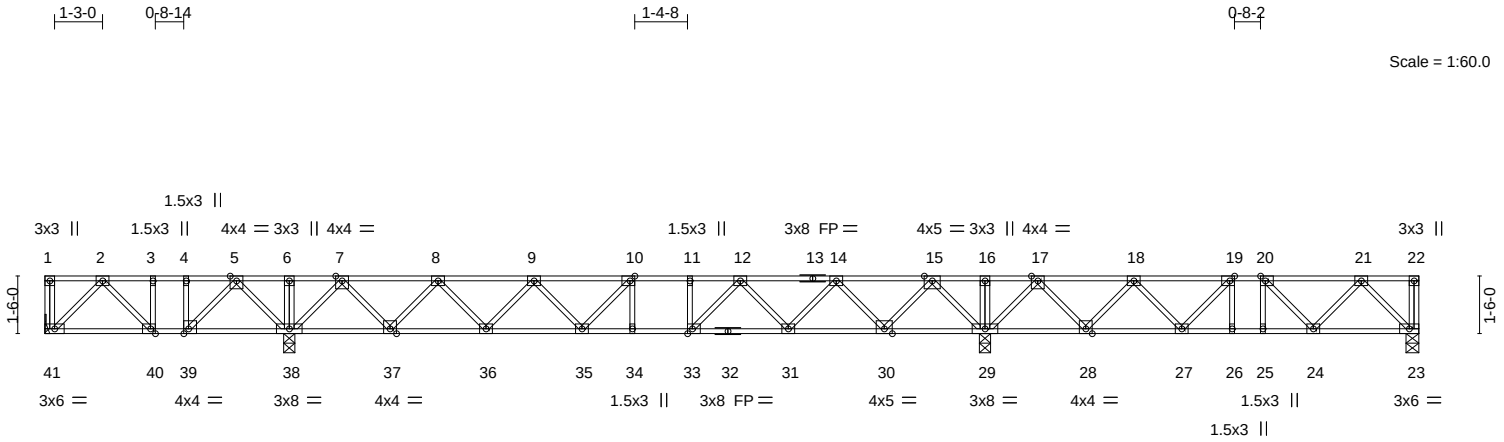

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.13	34-35	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.20	34-35	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	29	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 198 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-4-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-237(LC 6)
Max Grav All reactions 250 lb or less at joint(s) except 41=256(LC 5), 23=586(LC 5), 38=1992(LC 3), 29=2196(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-123/707, 3-4=-123/707, 4-5=-123/707, 5-6=0/1810, 6-7=0/1810, 8-9=-1348/0, 9-10=-1970/0, 10-11=-2072/0, 11-12=-2072/0, 12-14=-1334/0, 14-15=-121/340, 15-16=0/2094, 16-17=0/2094, 17-18=-164/957, 18-19=-819/404, 19-20=-982/143, 20-21=-762/18
BOT CHORD 40-41=-272/178, 39-40=-707/123, 38-39=-1265/0, 37-38=-718/0, 36-37=0/870, 35-36=0/1810, 34-35=0/2072, 33-34=0/2072, 31-33=0/1789, 30-31=-25/875, 29-30=-965/0, 28-29=-1302/0, 27-28=-638/641, 26-27=-143/982, 25-26=-143/982, 24-25=-143/982, 23-24=0/532
WEBS 2-41=-252/384, 2-40=-631/0, 3-40=0/318, 5-38=-1006/0, 5-39=0/939, 4-39=-494/0, 7-38=-1561/0, 7-37=0/1169, 8-37=-1124/0, 8-36=0/715, 9-36=-692/0, 9-35=0/265, 15-29=-1596/0, 15-30=0/1202, 14-30=-1162/0, 14-31=0/720, 12-31=-724/0, 12-33=0/616, 11-33=-274/0, 21-23=-752/0, 21-24=-92/343, 20-24=-317/182, 17-29=-1284/0, 17-28=0/899, 18-28=-865/0, 18-27=0/468, 19-27=-536/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 41.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F48	FLOOR	4	1	I49618591
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:51 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-eaSdHoVEWZnjINmB8xMtyRD19JI?f6nZLZ6i1lzwnvo

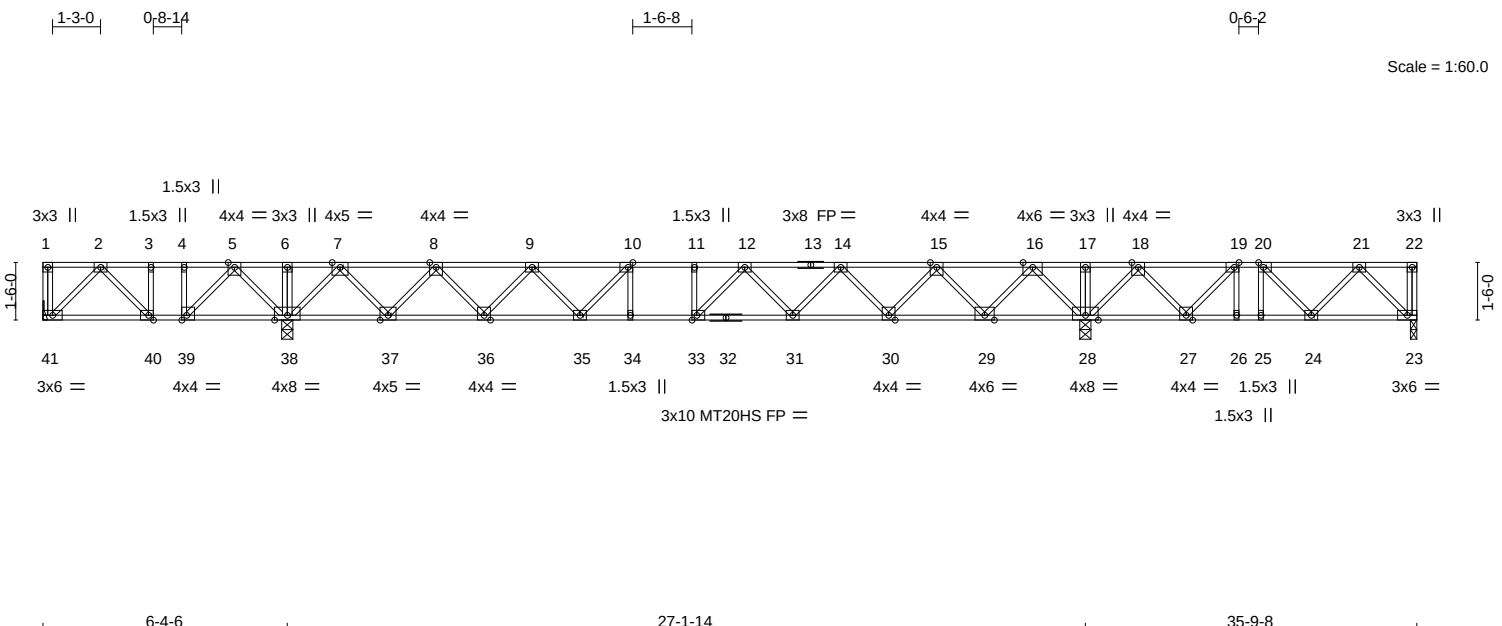

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-1-8,Edge], [39:0-1-8,Edge], [40:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.27	31-33	>922	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-13: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 41=Mechanical, 23=0-2-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 41=-328(LC 6), 23=-213(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 41 except 23=361(LC 5), 38=2226(LC 3), 28=2393(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-27/913, 3-4=-27/913, 4-5=-27/913, 5-6=0/2224, 6-7=0/2224, 8-9=-1471/0, 9-10=-2360/0, 10-11=-2673/0, 11-12=-2673/0, 12-14=-2245/0, 14-15=-1249/0, 15-16=0/462, 16-17=0/2736, 17-18=0/2736, 18-19=0/1544, 19-20=-294/974, 20-21=-334/539
BOT CHORD 40-41=-360/137, 39-40=-913/27, 38-39=-1589/0, 37-38=-992/0, 36-37=0/878, 35-36=0/2052, 34-35=0/2673, 33-34=0/2673, 31-33=0/2577, 30-31=0/1885, 29-30=0/590, 28-29=-1429/0, 27-28=-2031/0, 26-27=-974/294, 25-26=-974/294, 24-25=-974/294, 23-24=-219/316
WEBS 2-41=-193/509, 2-40=-801/0, 5-38=-1126/0, 5-39=0/1110, 4-39=-596/0, 3-40=0/419, 7-38=-1758/0, 7-37=0/1366, 8-37=-1322/0, 8-36=0/901, 9-36=-869/0, 9-35=0/490, 10-35=-560/0, 16-28=-1848/0, 16-29=0/1438, 15-29=-1413/0, 15-30=0/995, 14-30=-962/0, 14-31=0/550, 12-31=-512/0, 12-33=-94/427, 18-28=-1277/0, 18-27=0/925, 19-27=-1038/0, 19-26=0/445, 21-23=-447/310, 21-24=-476/27, 20-24=0/629, 20-25=-432/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 328 lb uplift at joint 41 and 213 lb uplift at joint 23.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
10) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F50	Floor	3	1	I49618592
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:54 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-297lvqX6pU9H9qVmp4vaa3riKWPPsZu?1XLMd4zwnvl

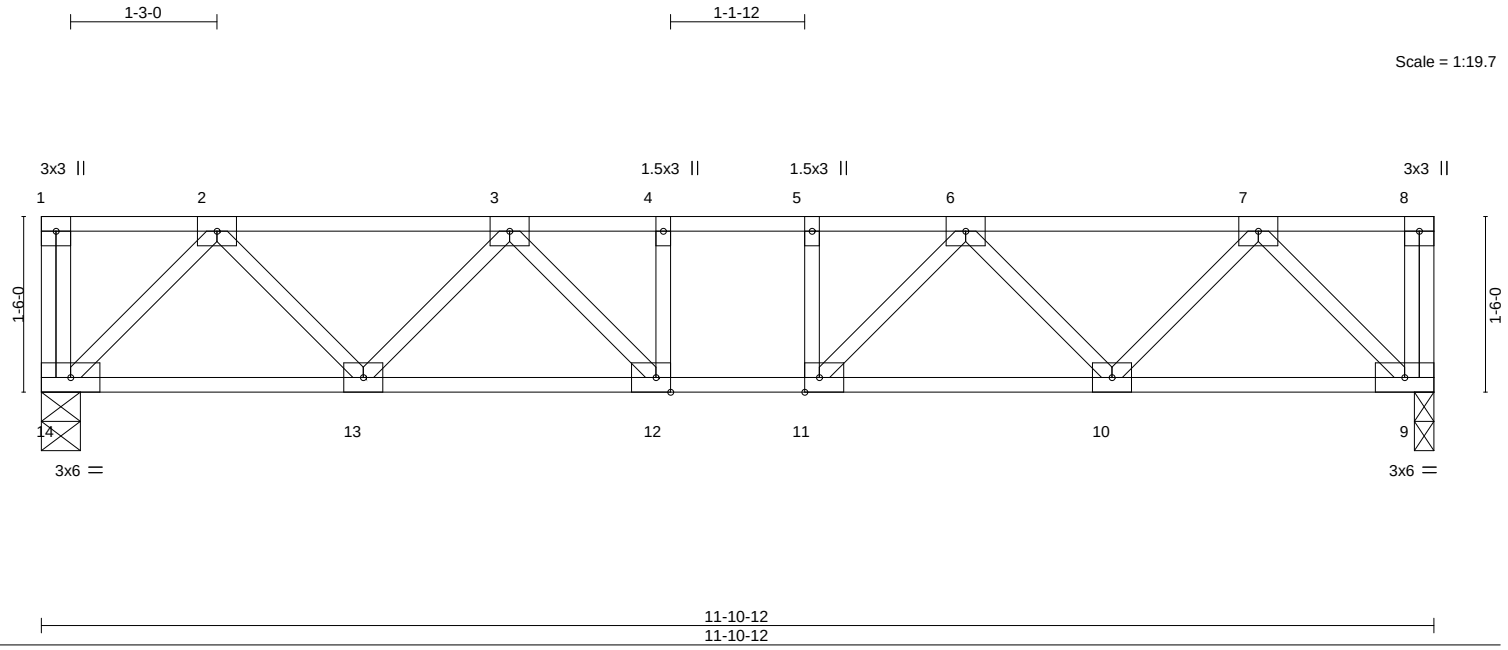

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.05	12-13	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 68 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-4-0, 9=0-2-0
Max Grav 14=757(LC 1), 9=757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1588/0, 4-5=-1588/0, 5-6=-1588/0, 6-7=-1091/0
BOT CHORD 13-14=0/701, 12-13=0/1454, 11-12=0/1588, 10-11=0/1454, 9-10=0/701
WEBS 2-14=-991/0, 2-13=0/580, 3-13=-540/0, 3-12=0/345, 7-9=-991/0, 7-10=0/580, 6-10=-540/0, 6-11=0/345

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F51	FLOOR	4	1	I49618593
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:56 2022 Page 1
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1-3-0 0-4-7 1-1-4

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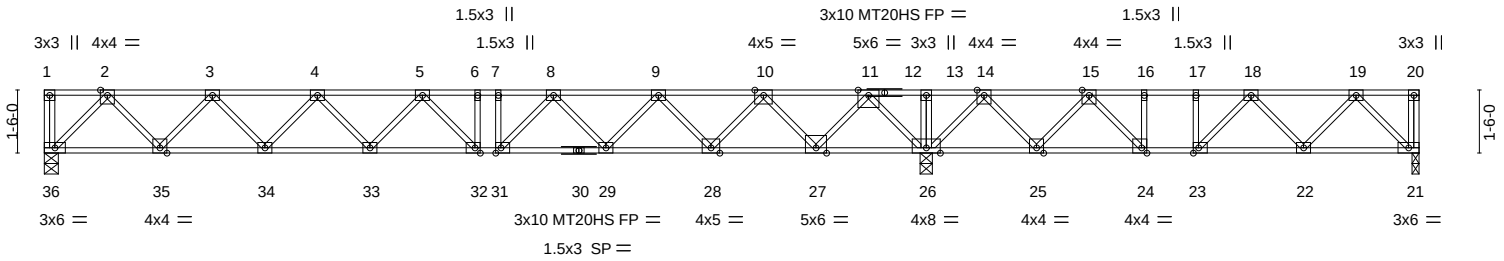

20-11-15 32-8-11
20-11-15 11-8-12

Plate Offsets (X,Y)-- [23:0-1-8,Edge], [24:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.23	32-33	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.37	32-33	>671	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	26	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 179 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
30-36: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 36=0-4-0, 21=0-2-0, 26=0-3-8
Max Uplift 21=-54(LC 3)
Max Grav 36=1165(LC 3), 21=573(LC 4), 26=2702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1871/0, 3-4=-3072/0, 4-5=-3682/0, 5-6=-3683/0, 6-7=-3683/0, 7-8=-3683/0, 8-9=-2892/0, 9-10=-1600/0, 10-11=0/704, 11-13=0/3173, 13-14=0/3173, 14-15=0/1845, 15-16=-814/842, 16-17=-814/842, 17-18=-814/842, 18-19=-751/214
BOT CHORD 35-36=0/1104, 34-35=0/2611, 33-34=0/3515, 32-33=0/3816, 31-32=0/3683, 29-31=0/3385, 28-29=0/2386, 27-28=-37/787, 26-27=-1689/0, 25-26=-2291/0, 24-25=-1377/430, 23-24=-842/814, 22-23=-417/935, 21-22=-78/518
WEBS 2-36=-1561/0, 2-35=0/1140, 3-35=-1100/0, 3-34=0/686, 4-34=-659/0, 4-33=0/273, 5-32=-448/134, 11-26=-2099/0, 11-27=0/1672, 10-27=-1650/0, 10-28=0/1235, 9-28=-1195/0, 9-29=0/777, 8-29=-760/0, 8-31=0/649, 7-31=-301/0, 14-26=-1490/0, 14-25=0/1048, 15-25=-1089/0, 15-24=0/1051, 19-21=-732/110, 19-22=-202/346, 18-22=-274/303, 18-23=-706/0, 17-23=0/318, 16-24=-532/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 21.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F52	Floor	2	1	I49618594
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:57 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-SkpuXsa?6PYs0IDLUCTHCiT2AkNd3tTSjVZ0EPzwnvi

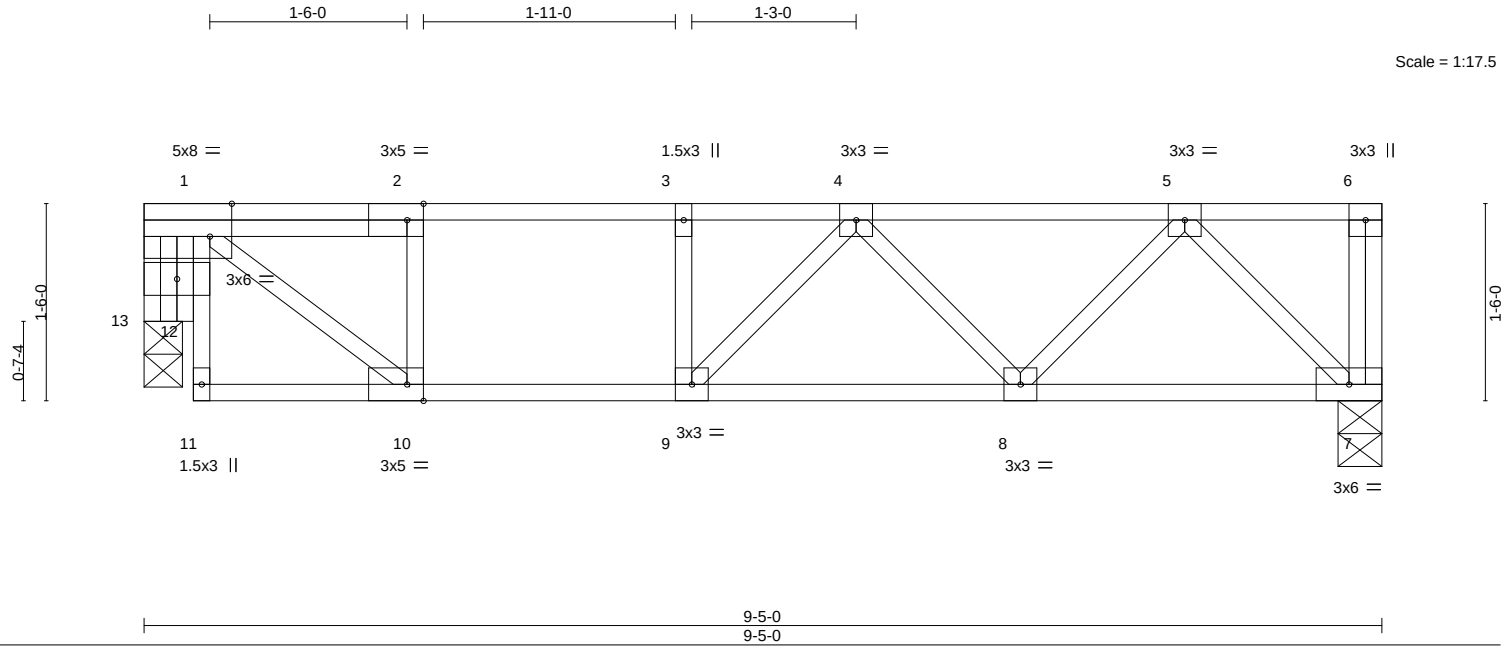

Plate Offsets (X,Y)-- [1:0-2-0,Edge], [2:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.10	8-9	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	8-9	>719	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-P							Weight: 56 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat) *Except* 1-6: 2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-0, 13=0-3-8
Max Grav 7=589(LC 1), 13=562(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-826/0, 2-3=-828/0, 3-4=-828/0, 4-5=-787/0
BOT CHORD 9-10=0/828, 8-9=0/978, 7-8=0/535
WEBS 2-10=-496/0, 5-7=-756/0, 5-8=0/376, 4-8=-283/0, 4-9=-253/24, 1-10=0/1007, 1-13=-567/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F53	FLOOR	1	1	I49618595
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:10:59 2022 Page 1
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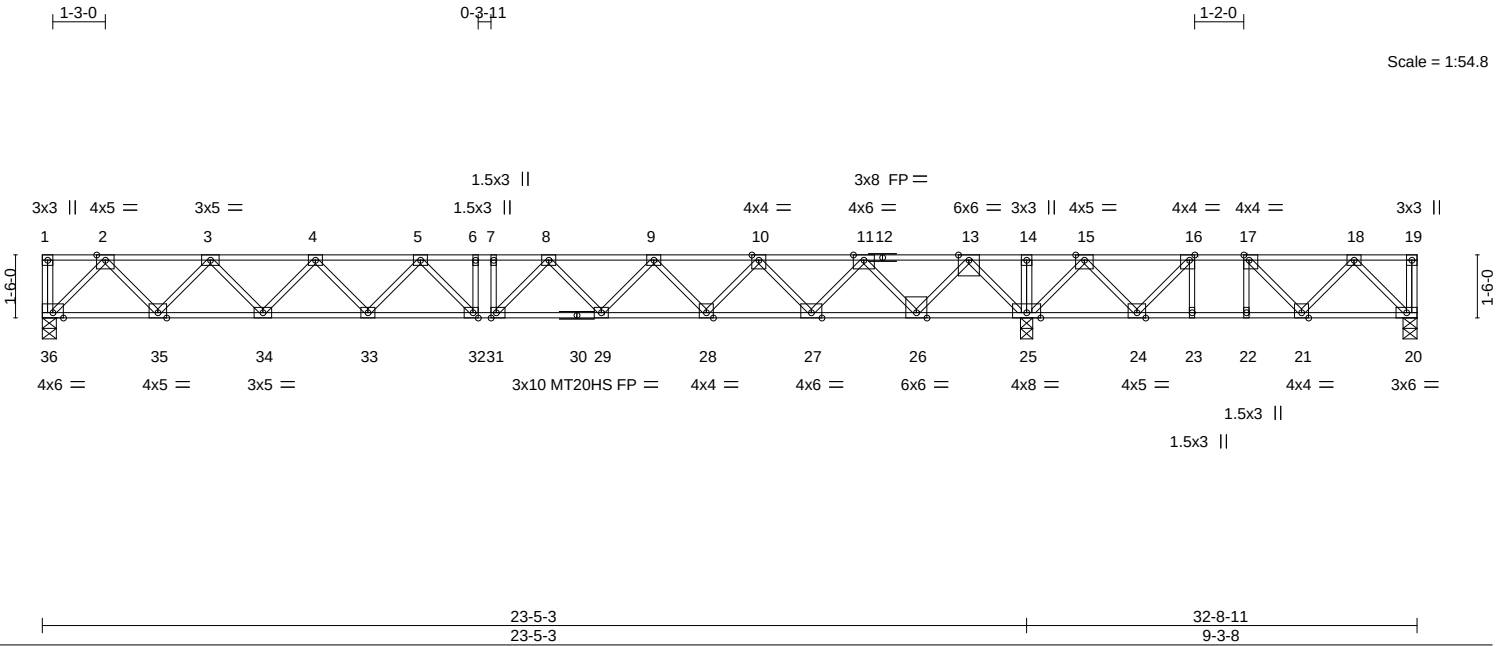

Plate Offsets (X,Y)-- [16:0-1-8,Edge], [17:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.34	32	>830	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.54	32	>517	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	25	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 179 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 1-12: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 30-36: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 36=0-4-0, 20=0-4-0, 25=0-3-8
Max Uplift 20=-380(LC 3)
Max Grav 36=1278(LC 10), 20=337(LC 4), 25=2985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2086/0, 3-4=-3493/0, 4-5=-4305/0, 5-6=-4542/0, 6-7=-4542/0, 7-8=-4542/0, 8-9=-4002/0, 9-10=-2924/0, 10-11=-1251/0, 11-13=0/1239, 13-14=0/4202, 14-15=0/4202, 15-16=0/2584, 16-17=-142/1640, 17-18=-282/866
BOT CHORD 35-36=0/1217, 34-35=0/2929, 33-34=0/4038, 32-33=0/4545, 31-32=0/4542, 29-31=0/4381, 28-29=0/3604, 27-28=0/2223, 26-27=-281/322, 25-26=-2540/0, 24-25=-3289/0, 23-24=-1640/142, 22-23=-1640/142, 21-22=-1640/142, 20-21=-352/306
WEBS 2-36=-1721/0, 2-35=0/1292, 3-35=-1253/0, 3-34=0/839, 4-34=-810/0, 4-33=0/415, 5-33=-390/0, 5-32=-317/304, 13-25=-2350/0, 13-26=0/1935, 11-26=-1918/0, 11-27=0/1501, 10-27=-1463/0, 10-28=0/1063, 9-28=-1030/0, 9-29=0/611, 8-29=-584/0, 8-31=-116/506, 15-25=-1515/0, 15-24=0/1277, 16-24=-1613/0, 18-20=-433/498, 18-21=-764/0, 17-21=0/1121, 17-22=-641/0, 16-23=0/666

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 20.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F54	Floor	4	1	I49618596
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:00 2022 Page 1
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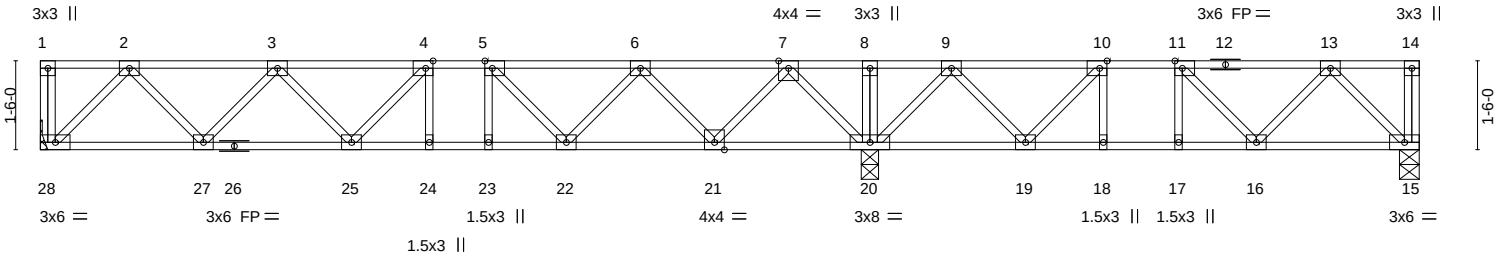

14-0-0 23-3-4
14-0-0 9-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.11	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 130 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 28=Mechanical, 15=0-4-0, 20=0-3-8
Max Grav 28=808(LC 10), 15=503(LC 4), 20=1788(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1193/0, 3-4=-1737/0, 4-5=-1814/0, 5-6=-1492/0, 6-7=-601/0, 7-8=0/1243, 8-9=0/1243, 9-10=-342/415, 10-11=-696/120, 11-13=-601/0
BOT CHORD 27-28=0/745, 25-27=0/1619, 24-25=0/1814, 23-24=0/1814, 22-23=0/1814, 21-22=0/1191, 20-21=-292/0, 19-20=-663/18, 18-19=-120/696, 17-18=-120/696, 16-17=-120/696, 15-16=0/458
WEBS 2-28=-1053/0, 2-27=0/667, 3-27=-632/0, 7-20=-1344/0, 7-21=0/950, 6-21=-915/0, 6-22=0/493, 5-22=-550/0, 9-20=-967/0, 9-19=0/606, 10-19=-684/0, 13-15=-648/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Refer to girder(s) for truss to truss connections.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F55	Floor	1	1	I49618597
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:01 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-LV2PNDdVAe2IUvX6j2XDMYergLhL?ge1e7XENAzwnve

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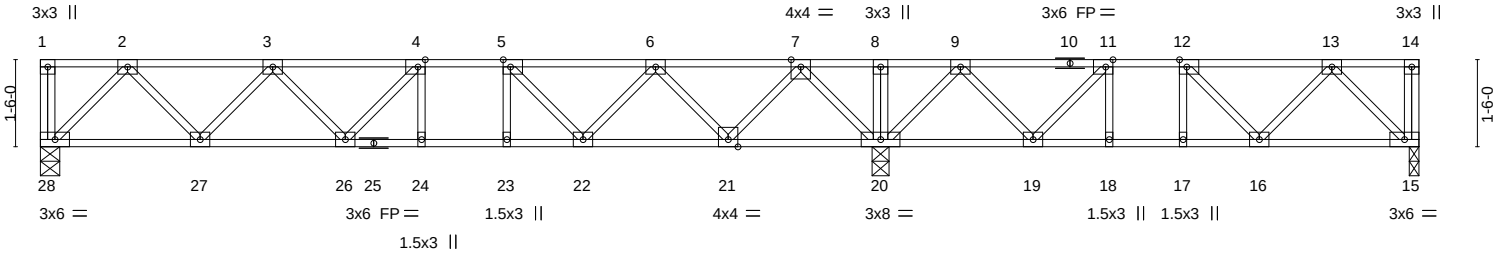

14-5-10 23-8-14
14-5-10 9-3-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.09	24-26	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.14	24-26	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 28=0-4-0, 15=0-2-0, 20=0-3-8
Max Grav 28=840(LC 10), 15=505(LC 4), 20=1814(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1255/0, 3-4=-1856/0, 4-5=-1951/0, 5-6=-1586/0, 6-7=-642/0, 7-8=0/1232, 8-9=0/1232, 9-11=-352/421, 11-12=-703/124, 12-13=-606/0
BOT CHORD 27-28=0/776, 26-27=0/1712, 24-26=0/1951, 23-24=0/1951, 22-23=0/1951, 21-22=0/1256, 20-21=-265/7, 19-20=-670/30, 18-19=-124/703, 17-18=-124/703, 16-17=-124/703, 15-16=0/460
WEBS 2-28=-1097/0, 2-27=0/712, 3-27=-679/0, 7-20=-1381/0, 7-21=0/983, 6-21=-945/0, 6-22=0/533, 5-22=-611/0, 9-20=-967/0, 9-19=0/605, 11-19=-683/0, 13-15=-650/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 2 degree rotation about its center.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F56	Floor	2	1	I49618598
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:03 2022 Page 1
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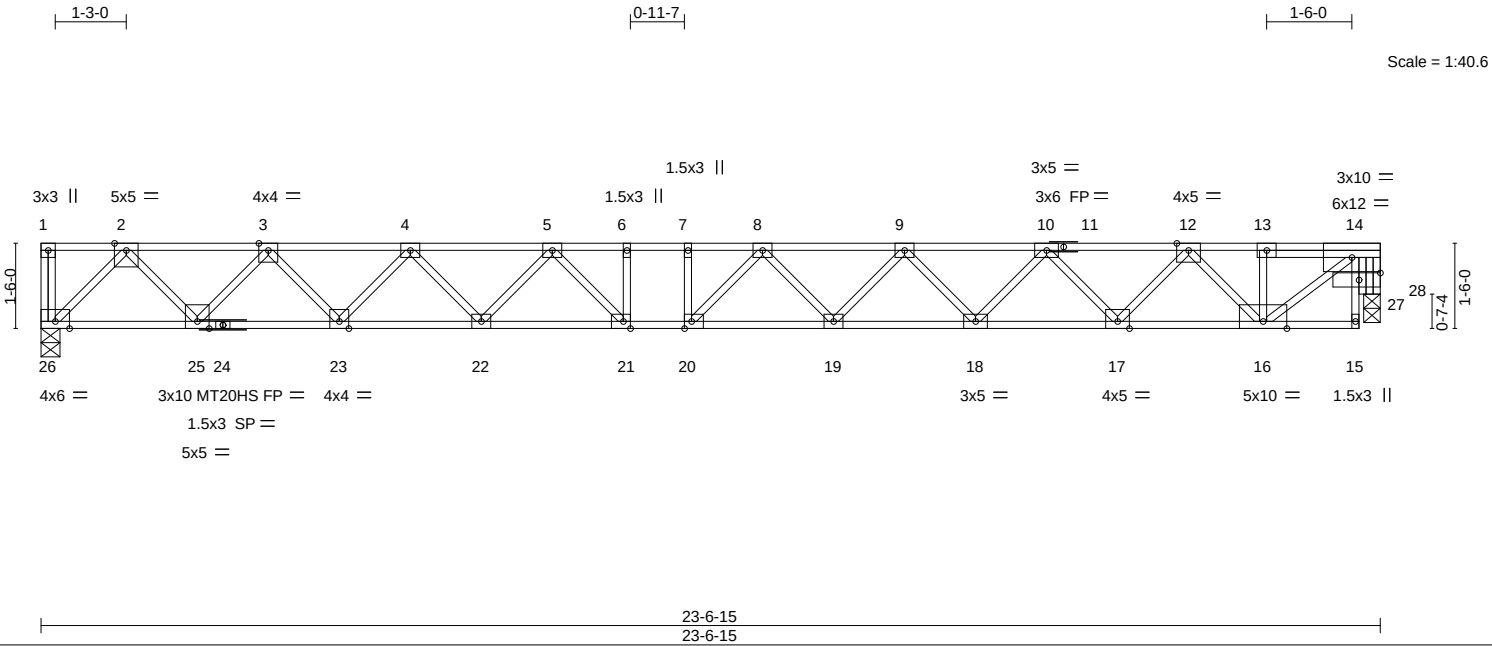

Plate Offsets (X,Y)-- [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.45	19-20	>614	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.74	19-20	>377	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.08	28	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 131 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) *Except*
1-11: 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
15-24: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
14-15,14-16: 2x4 SP No.2(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 23-25.

REACTIONS. (size) 26=0-4-0, 28=0-3-8
Max Grav 26=1509(LC 1), 28=1482(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2526/0, 3-4=-4355/0, 4-5=-5575/0, 5-6=-6310/0, 6-7=-6310/0, 7-8=-6310/0, 8-9=-6106/0, 9-10=-5286/0, 10-12=-3876/0, 12-13=-1859/0, 13-14=-1861/0
BOT CHORD 25-26=0/1447, 23-25=0/3579, 22-23=0/5106, 21-22=0/6036, 20-21=0/6310, 19-20=0/6340, 18-19=0/5833, 17-18=0/4722, 16-17=0/3006
WEBS 2-26=-2046/0, 2-25=0/1604, 3-25=-1566/0, 3-23=0/1153, 4-23=-1117/0, 4-22=0/698, 5-22=-685/0, 5-21=-74/699, 6-21=-323/0, 14-16=0/2144, 12-16=-1662/0, 12-17=0/1293, 10-17=-1258/0, 10-18=0/839, 9-18=-813/0, 9-19=0/447, 8-19=-438/0, 8-20=-385/389, 14-28=-1533/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 2 degree rotation about its center.
5) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F57	FLOOR	7	1	I49618599
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:04 2022 Page 1
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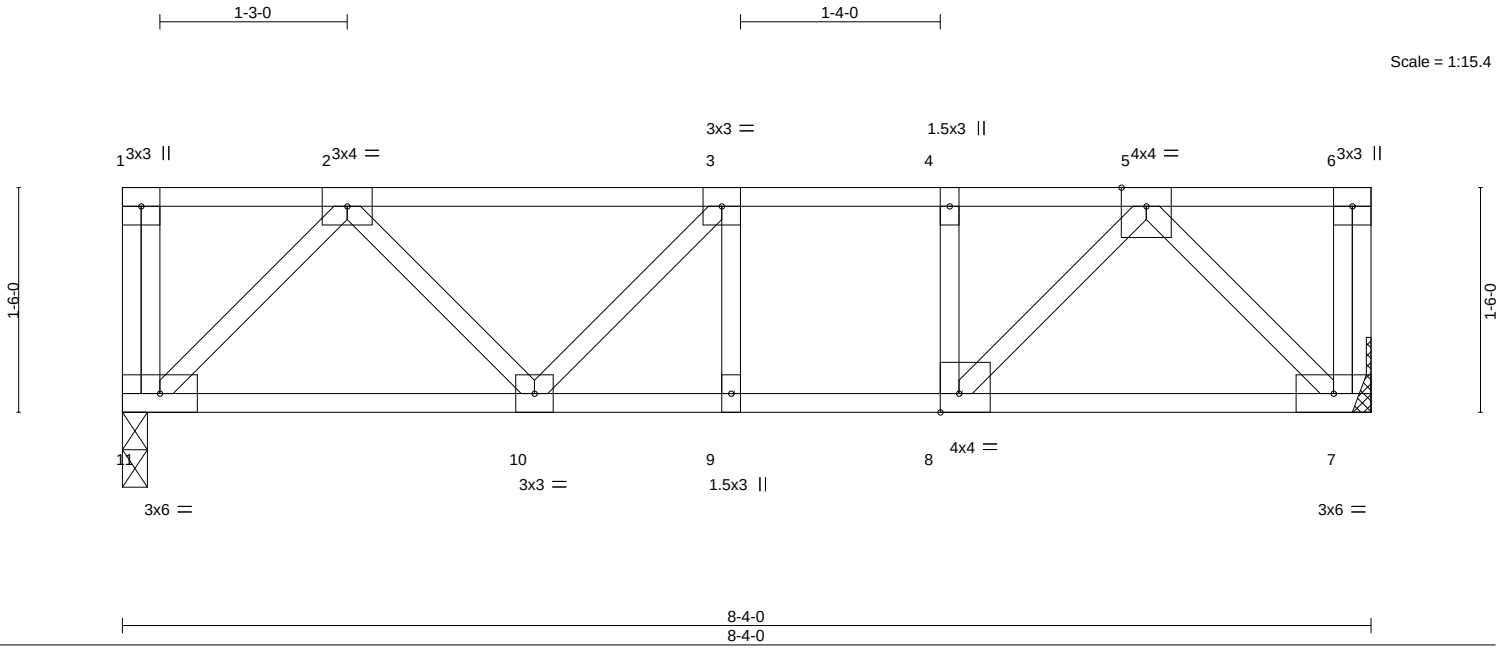

Plate Offsets (X,Y)-- [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.11	9-10	>879	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-2-0, 7=Mechanical
Max Grav 11=1010(LC 1), 7=1010(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1235/0, 3-4=-1440/0, 4-5=-1440/0
BOT CHORD 10-11=0/934, 9-10=0/1440, 8-9=0/1440, 7-8=0/877
WEBS 2-11=-1321/0, 2-10=0/448, 3-10=-414/0, 3-9=-279/41, 5-7=-1241/0, 5-8=0/857, 4-8=-428/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	F58	FLOOR	4	1	I49618600
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:05 2022 Page 1
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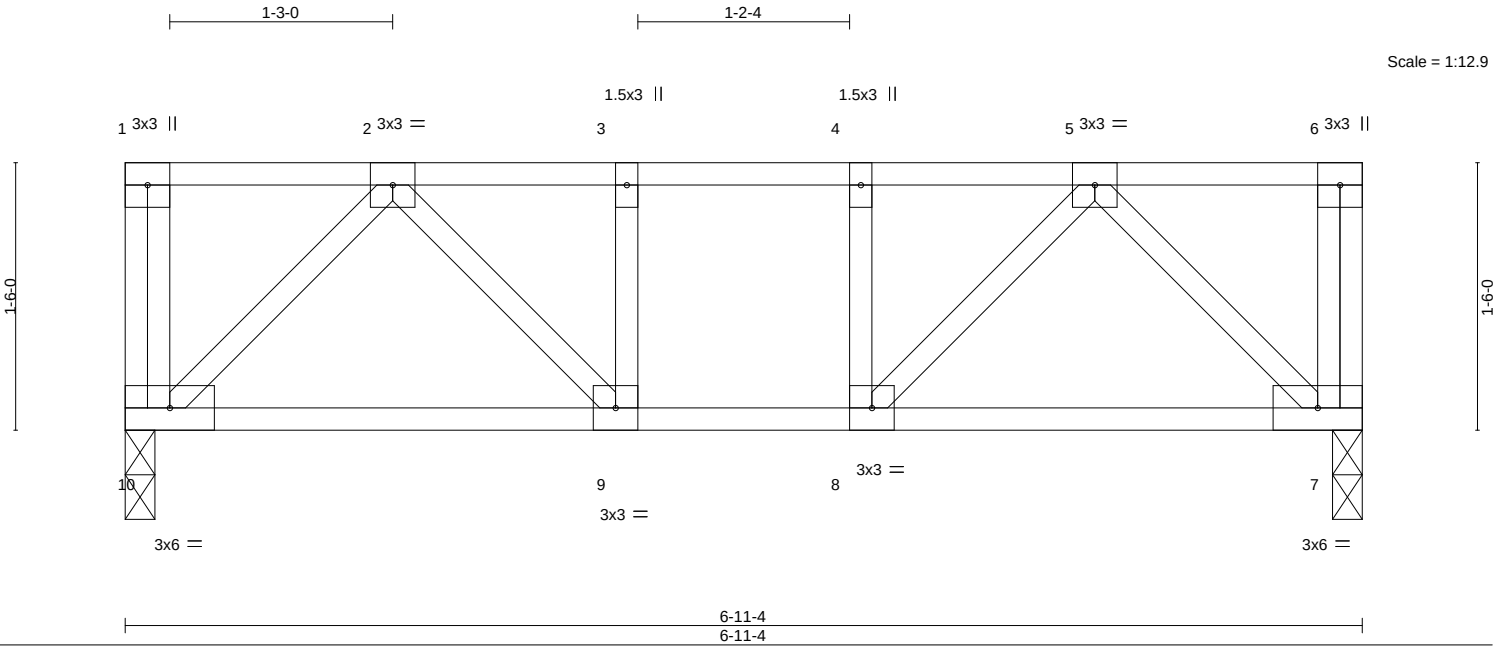

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.04	9-10	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.04	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-2-0, 7=0-2-0
Max Grav 10=836(LC 1), 7=836(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1000/0, 3-4=-1000/0, 4-5=-1000/0
BOT CHORD	9-10=0/691, 8-9=0/1000, 7-8=0/691
WEBS	2-10=-977/0, 2-9=0/527, 3-9=-307/0, 5-7=-977/0, 5-8=0/527, 4-8=-307/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10, 7.
4) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	FGR	FLOOR GIRDER	13	1	I49618601
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:15 2022 Page 1
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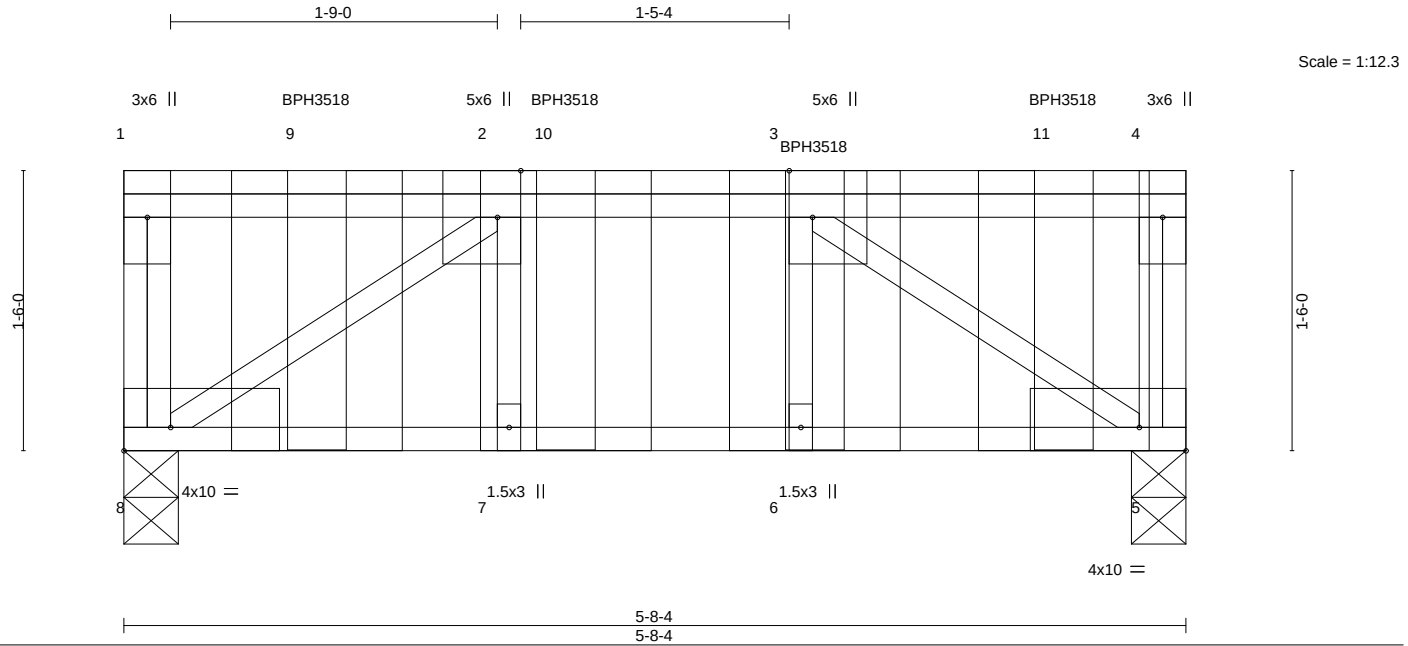

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge], [5:Edge,0-1-8], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.05	6	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.06	6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IBC2018/TPI2014		Matrix-SH							Weight: 42 lb	FT = 3%F, 3%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=2298(LC 1), 5=2739(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-514/0, 4-5=-939/0, 2-3=-2675/0
BOT CHORD 7-8=0/2675, 6-7=0/2675, 5-6=0/2675
WEBS 3-5=-3232/0, 2-8=-3232/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Use USP BPH3518 (With 16d x 2-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 1-0-6 from the left end to 5-0-6 to connect truss(es) to front face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-445(F=-325)
Concentrated Loads (lb)
Vert: 3=-733(F) 9=-357(F) 10=-733(F) 11=-741(F)

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW1	GABLE	2	1	I49618602
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:16 2022 Page 1
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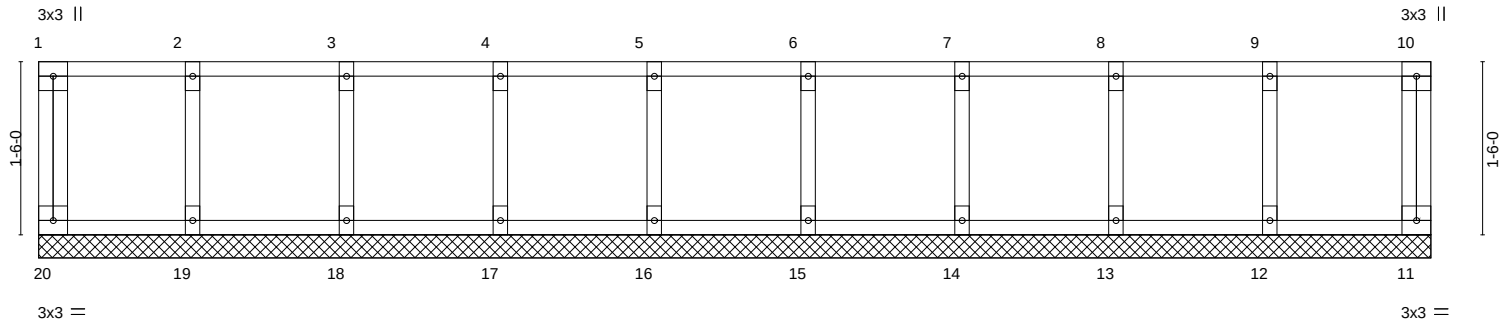

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW2	GABLE	2	1	I49618603
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:26 2022 Page 1
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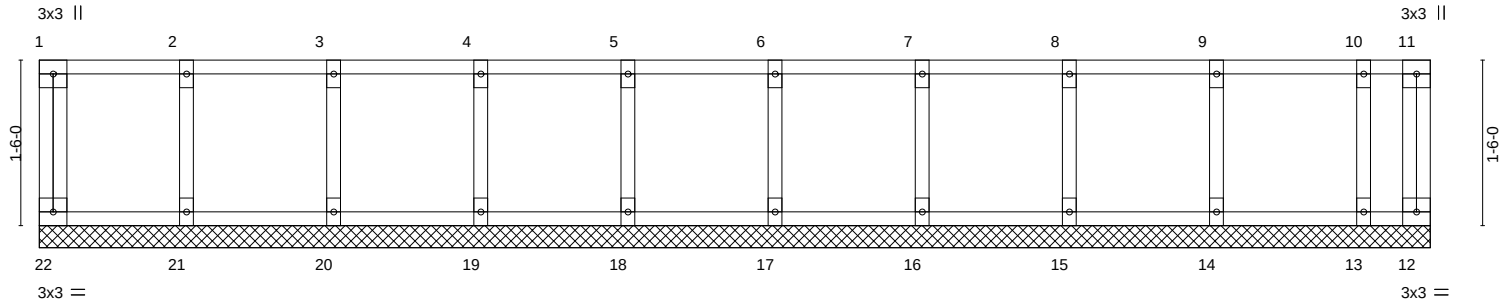

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1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-4

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618604
PRYOR-F3C	KW3	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:27 2022 Page 1
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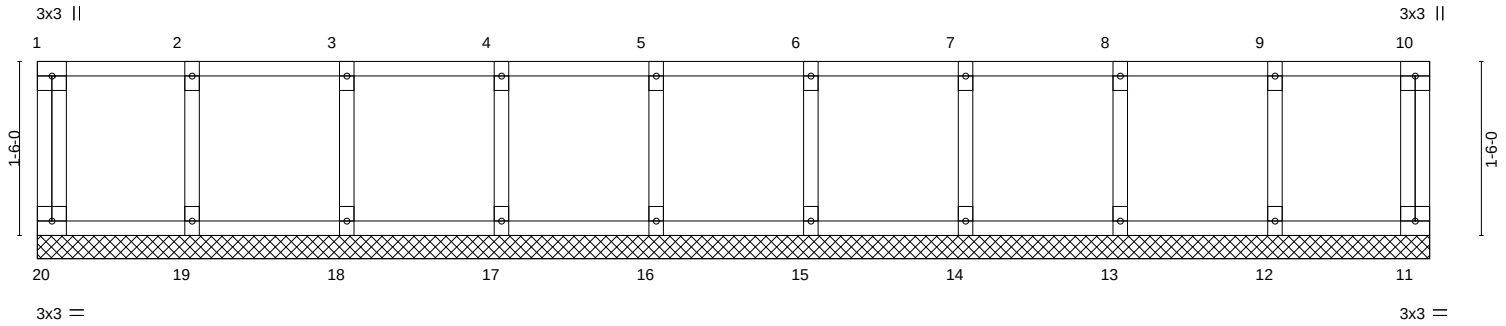

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW4	GABLE	1	1	I49618605
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:28 2022 Page 1
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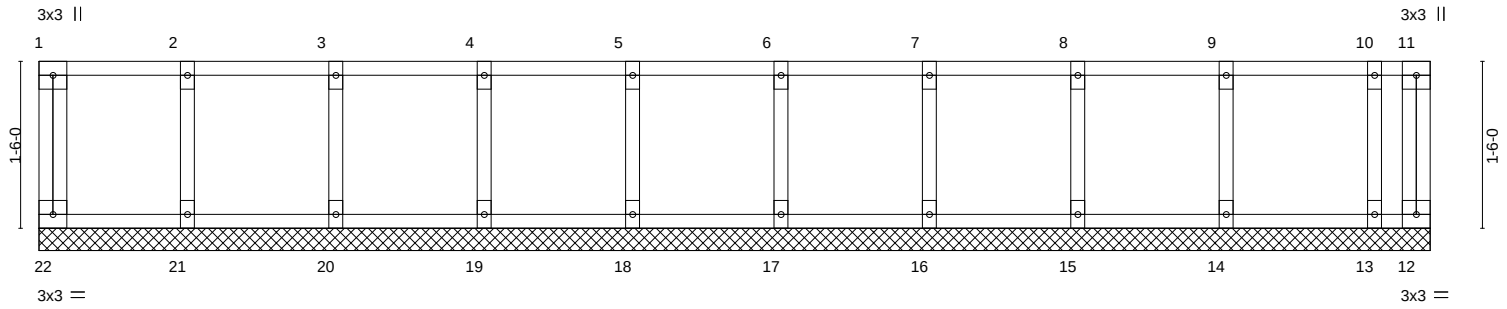

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-6-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 61 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW5	GABLE	1	1	I49618606
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:29 2022 Page 1
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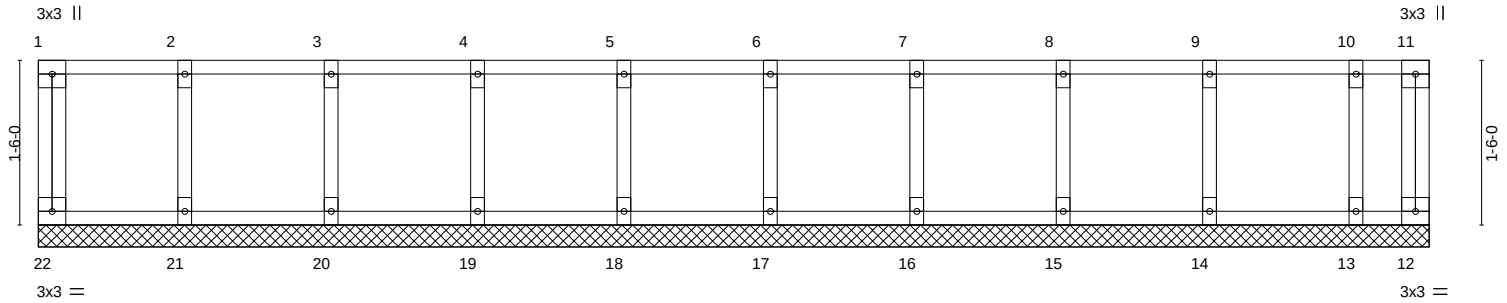

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 62 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW6	GABLE	2	1	I49618607
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:30 2022 Page 1
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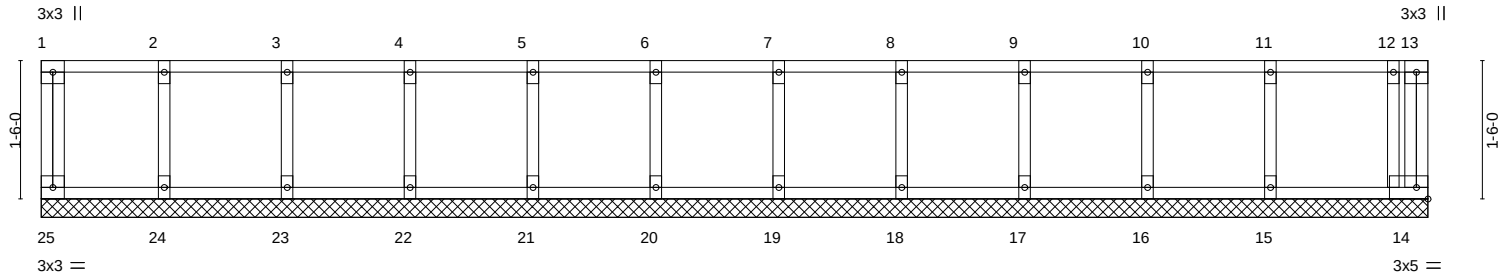

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	15-0-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-8

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 73 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW7	GABLE	2	1	I49618608
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:30 2022 Page 1
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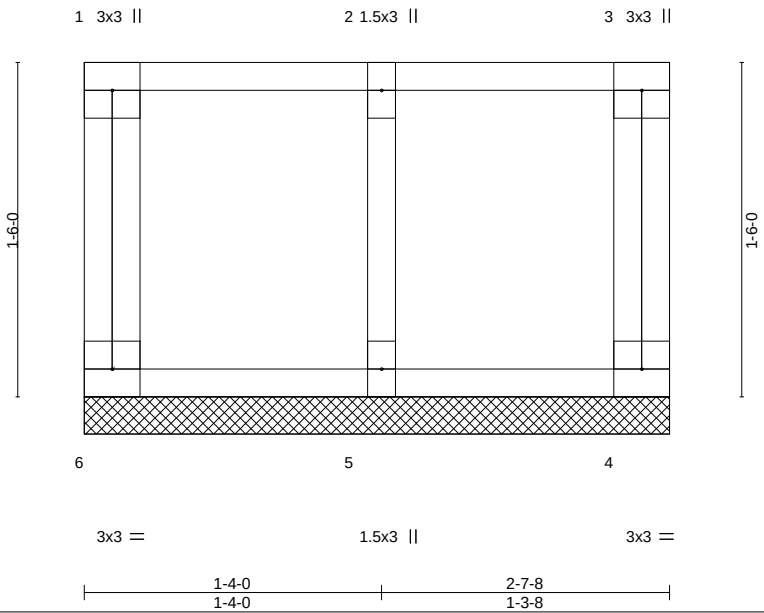

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 17 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=2-7-8, 4=2-7-8, 5=2-7-8
Max Grav 6=77(LC 1), 4=74(LC 1), 5=157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Plates checked for a plus or minus 2 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618609
PRYOR-F3C	KW8	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:31 2022 Page 1
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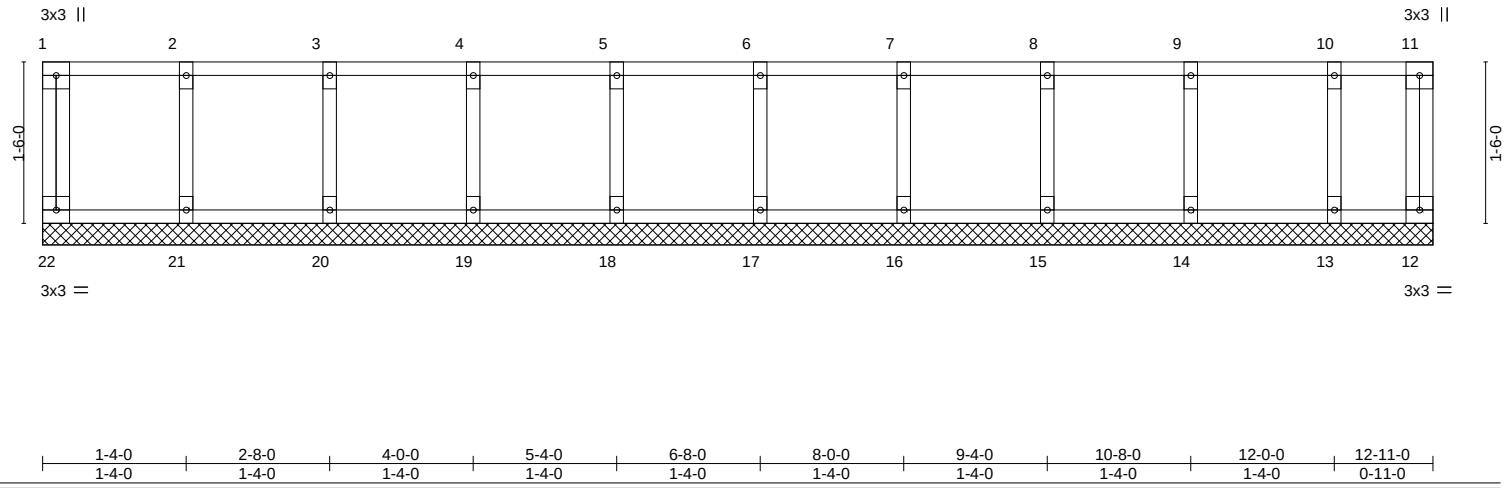

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW9	GABLE	1	1	I49618610
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:34 2022 Page 1
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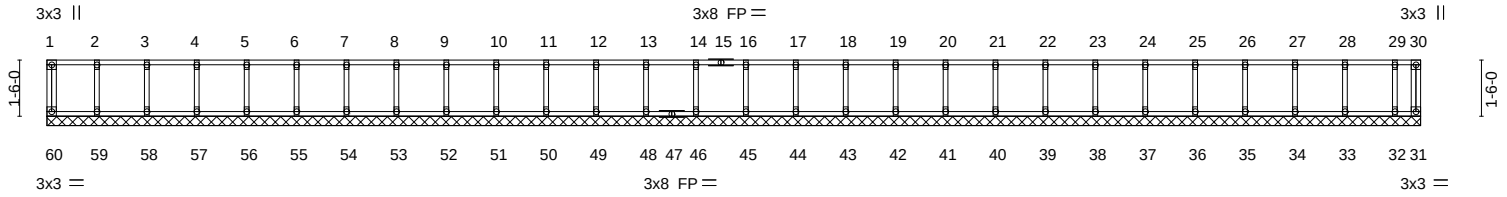

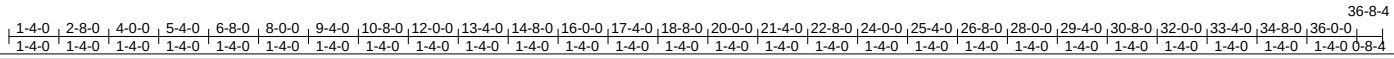

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 167 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-8-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW10	GABLE	4	1	I49618611
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:18 2022 Page 1
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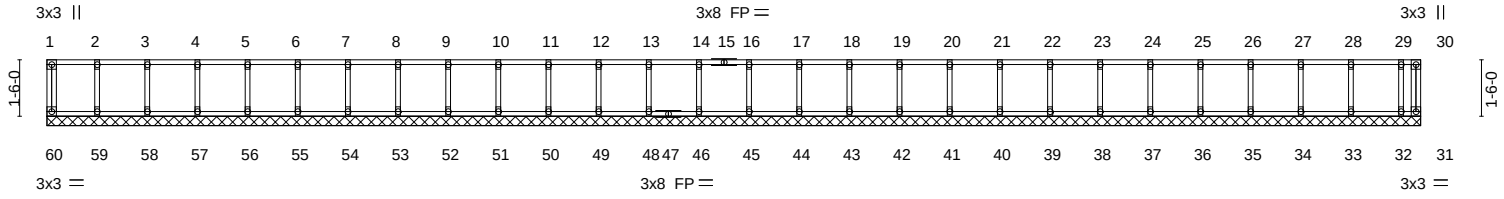

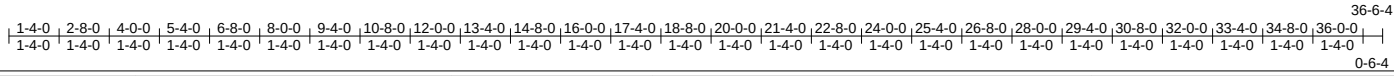

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	31	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 166 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW11	GABLE	1	1	I49618612
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:20 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-H9iaMjsQhTRbGqUmKXNgeYwBL?OQyNAq0aekYazwnvL

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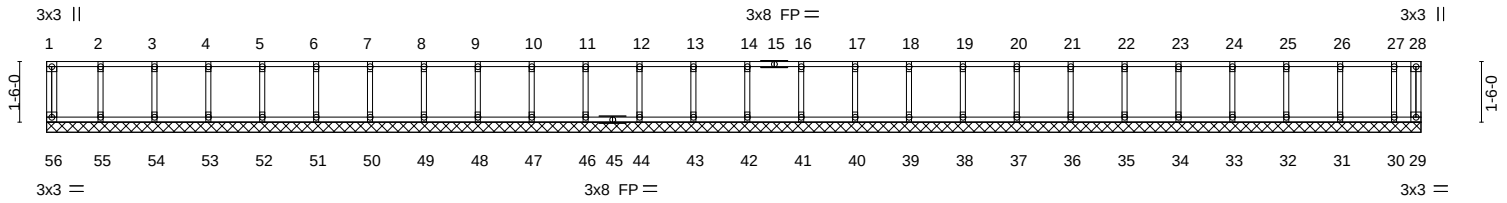

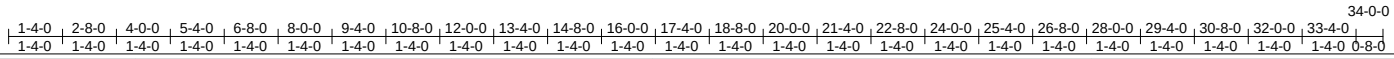

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	29	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 155 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 34-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 56, 29, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW12	GABLE	1	1	I49618613
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:22 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-DYqLnPtgD5hJW8e8SyP8jz0Xvp4_QHg7Tu7rdSzwnvJ

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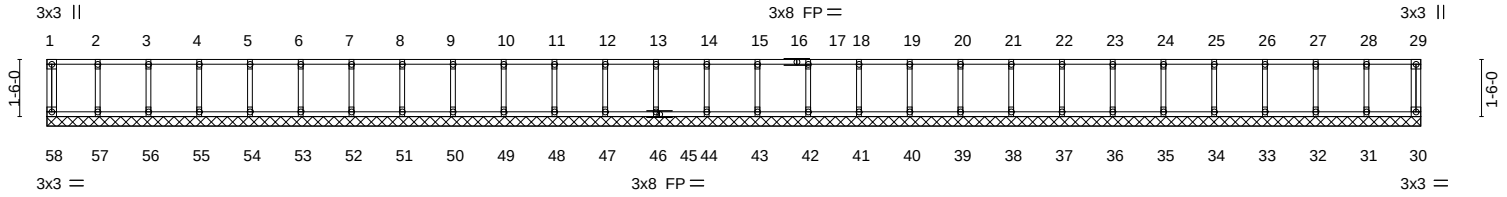

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0	29-4-0	30-8-0	32-0-0	33-4-0	34-8-0	36-1-2
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-2

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R						

PLATES	**GRIP**
MT20	244/190
Weight: 163 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-1-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW13	GABLE	1	1	I49618614
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:23 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-ikNj?lul_OpA7HDL0fxNFBYidDQC9kwGiYsO9uzwnvI

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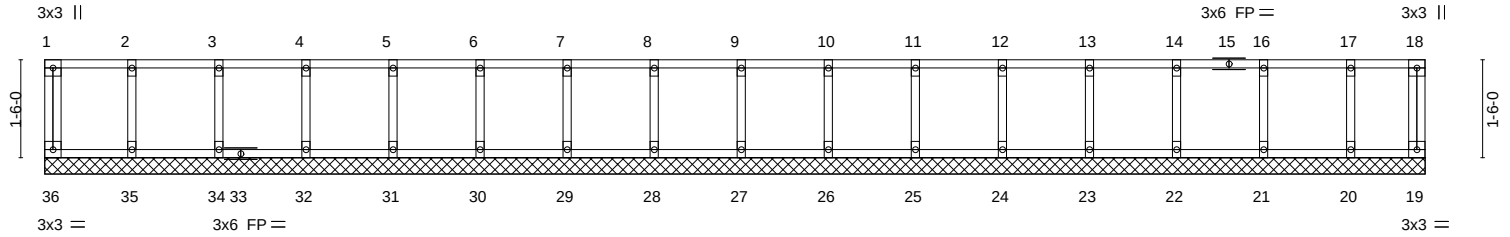

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-1-11
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-11

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 98 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-1-11.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW14	GABLE	1	1	I49618615
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:24 2022 Page 1
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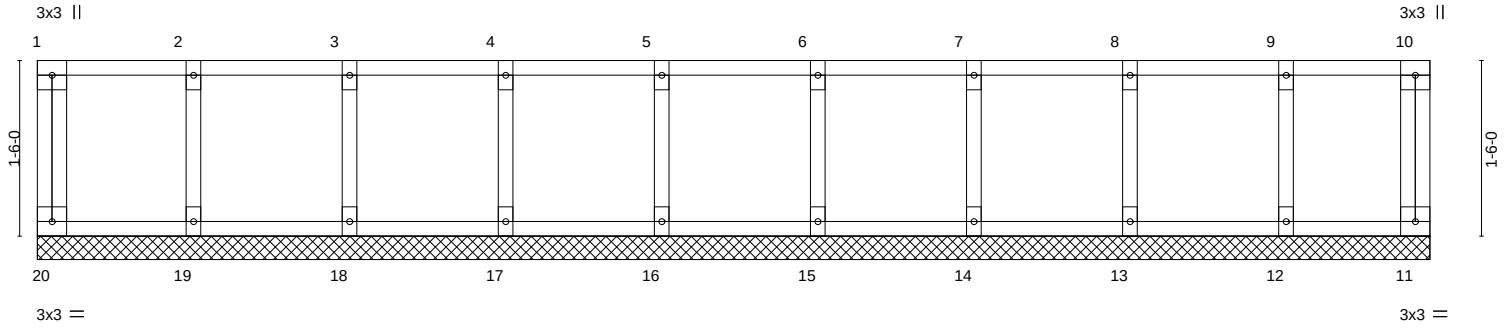

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-10-12
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-12

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 58 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL) I49618616
PRYOR-F3C	KW15	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:25 2022 Page 1
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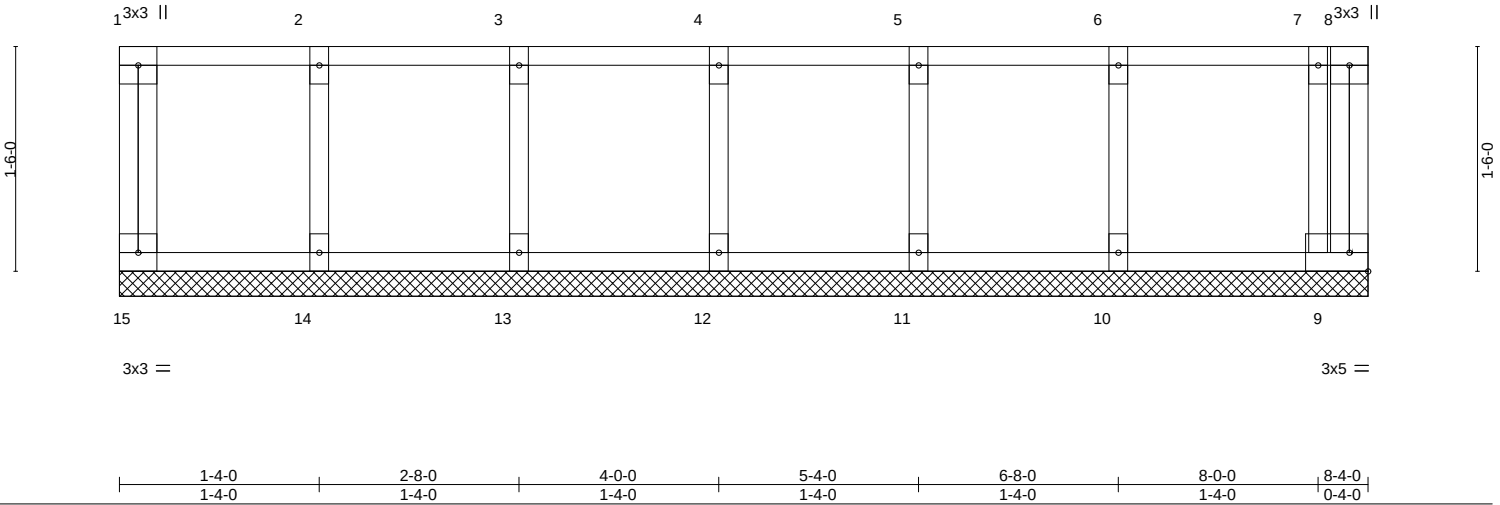

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 43 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 9, 14, 13, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 11,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C Level 3

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR BLDG 2 (AREA C 3RD LEVEL)
PRYOR-F3C	KW16	GABLE	1	1	I49618617
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jan 10 10:11:26 2022 Page 1
ID:KQzfWRgNqh6q?eB6m9QmQAz4RY6-6J3sdmwBHJBl_lxvhoU4tpADrQRrM5fjOW52mDzwnvF

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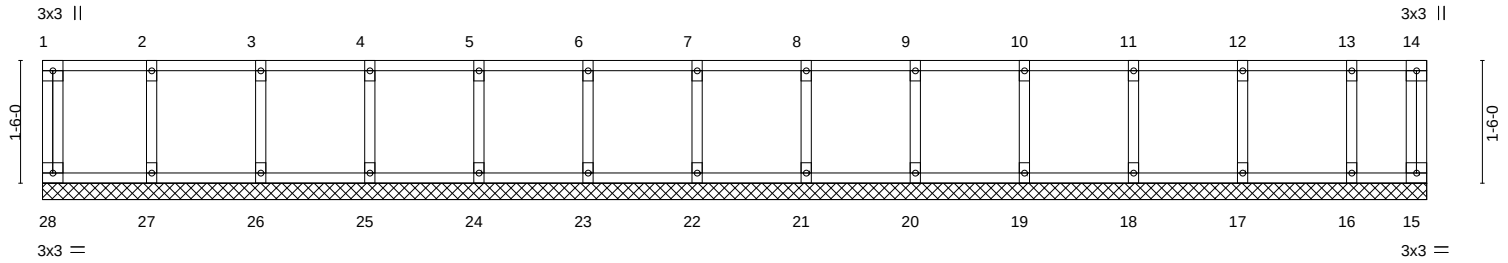


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	16-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-0

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IBC2018/TPI2014	Matrix-R							Weight: 80 lb	FT = 3%F, 3%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.2(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 2 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

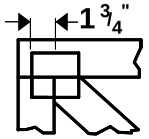
January 11,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

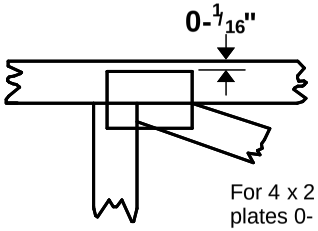
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

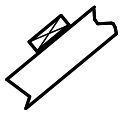
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

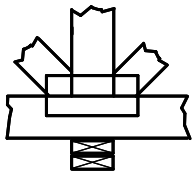
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

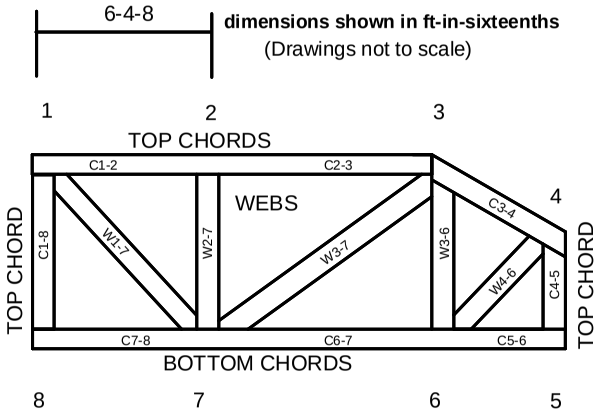


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area C Level 3

Building 2 Area A ROOF

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: March 8, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
#061753-17 Revision 0: Building 2 - Area A - Roof Truss SD	RETURNED NOT REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:
- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

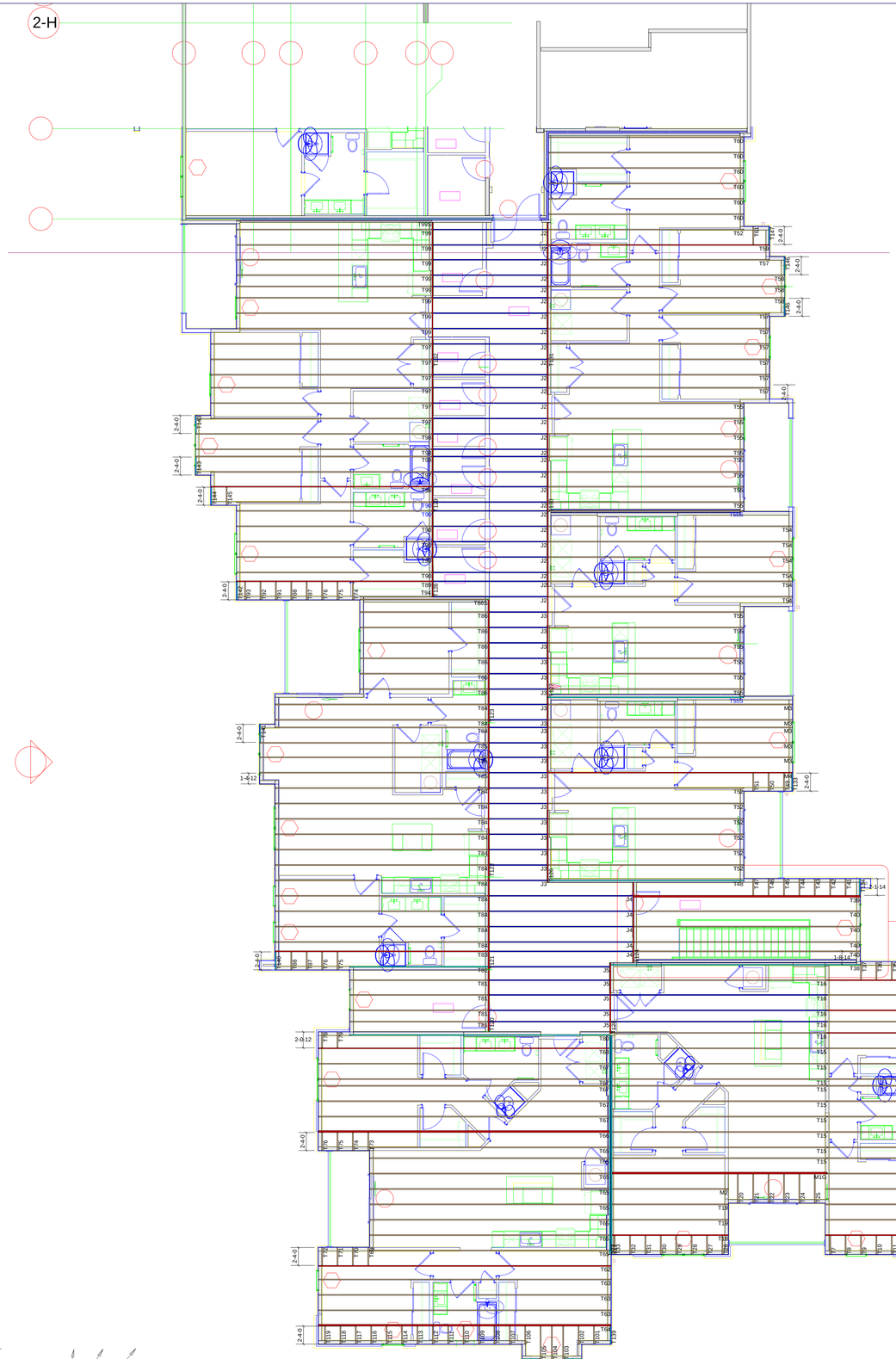
BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-R2A
BLDG #2 AREA A (ROOF)



TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 3/14/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED, REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED
REFER TO ORDINTIONS IN ATTACHED COMMENTARY
Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS
DATE: 03/08/2022 BY: cb

MCCAMBRIDGE BROS
The Signature at West Pryor
Building #2 Area A
ROOF

Telephone:
Contact:
Fax:
Sales:
Date:
Drawn By:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-R2A
WEST PRYOR-AREA A BLDG 2 (ROOF)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I50510928 thru I50511082

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 03/08/2022 *BY:* MJF

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certificati that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 3/14/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

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www.triarchitects.com

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	J2	Jack-Closed	27	1	I50510928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:02 2022 Page 1
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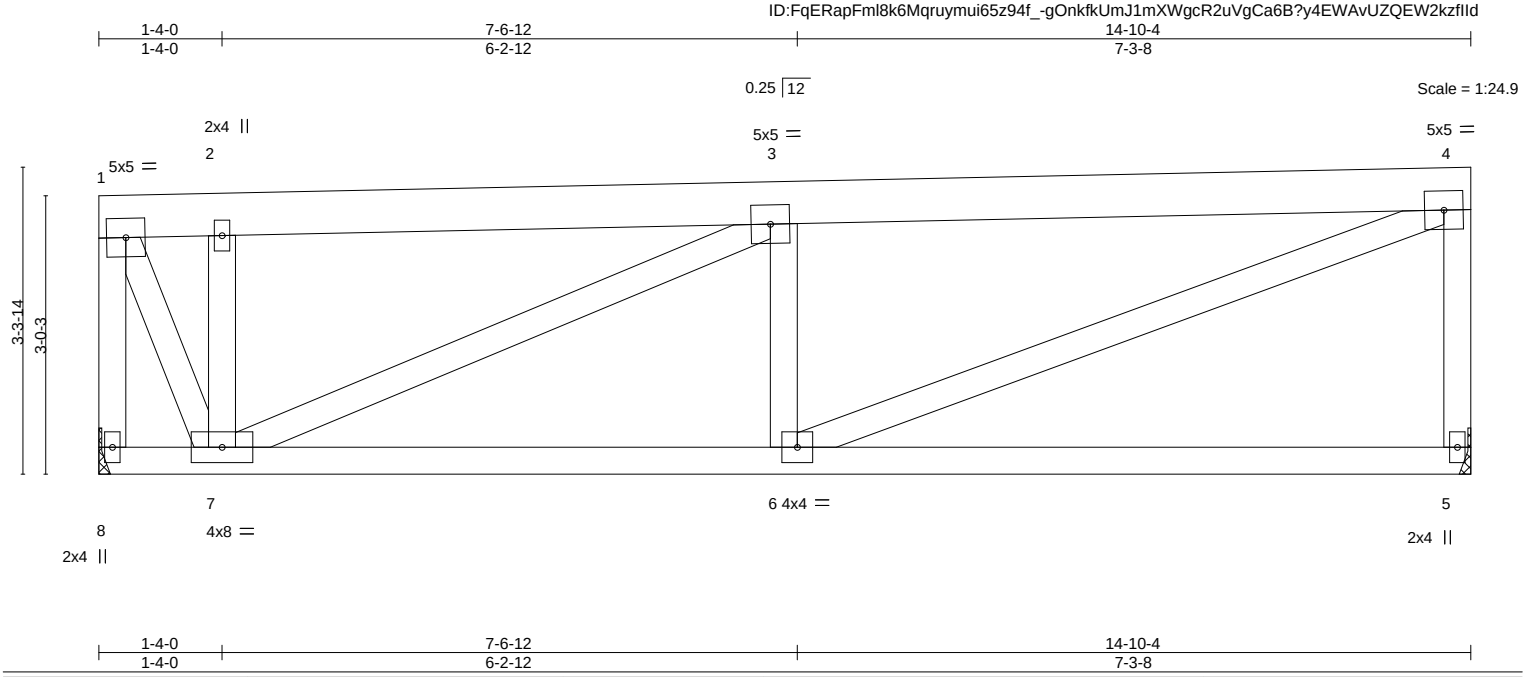

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=63(LC 14)
Max Grav 8=708(LC 21), 5=708(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-724/235, 1-2=-351/144, 2-3=-357/150, 3-4=-1086/377, 4-5=-647/285
BOT CHORD 6-7=-419/1078
WEBS 1-7=-295/861, 2-7=-362/201, 3-7=-798/289, 3-6=-280/258, 4-6=-427/1163

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	J3	Jack-Closed	19	1	I50510929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:03 2022 Page 1
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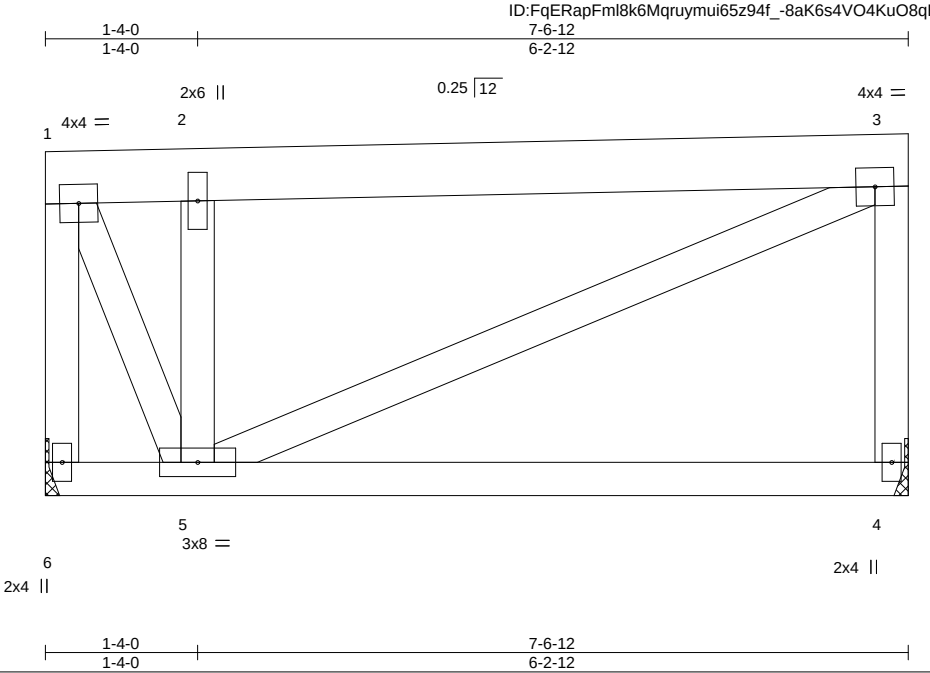

Scale = 1:20.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.01	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 52 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=60(LC 14)
Max Grav 6=353(LC 21), 4=353(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-398/154, 2-3=-255/150, 3-4=-304/225
WEBS 1-5=-311/608, 2-5=-529/414, 3-5=-196/275

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
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March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	J4	Jack-Closed	5	1	I50510930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:04 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-cnuV4QV0re0Flzmq9JX8I?BYvmk?_6Un0kjc6czfIIb

6-2-12 | 12-5-8 | 18-8-4
6-2-12 | 6-2-12 | 6-2-12

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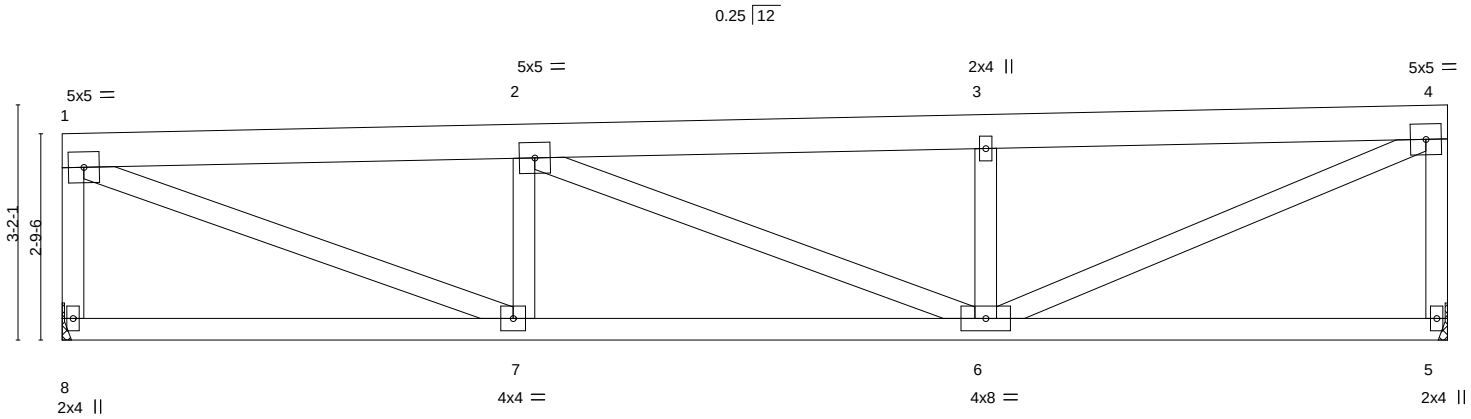

6-2-12 | 12-5-8 | 18-8-4
6-2-12 | 6-2-12 | 6-2-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.05	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.12	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=60(LC 14)
Max Grav 8=894(LC 21), 5=894(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-843/288, 1-2=-1549/448, 2-3=-1486/438, 3-4=-1487/444, 4-5=-844/293
BOT CHORD 6-7=-505/1546
WEBS 1-7=-488/1663, 2-7=-480/262, 3-6=-519/268, 4-6=-487/1629

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	J5	Jack-Closed	5	1	I50510931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:04 2022 Page 1
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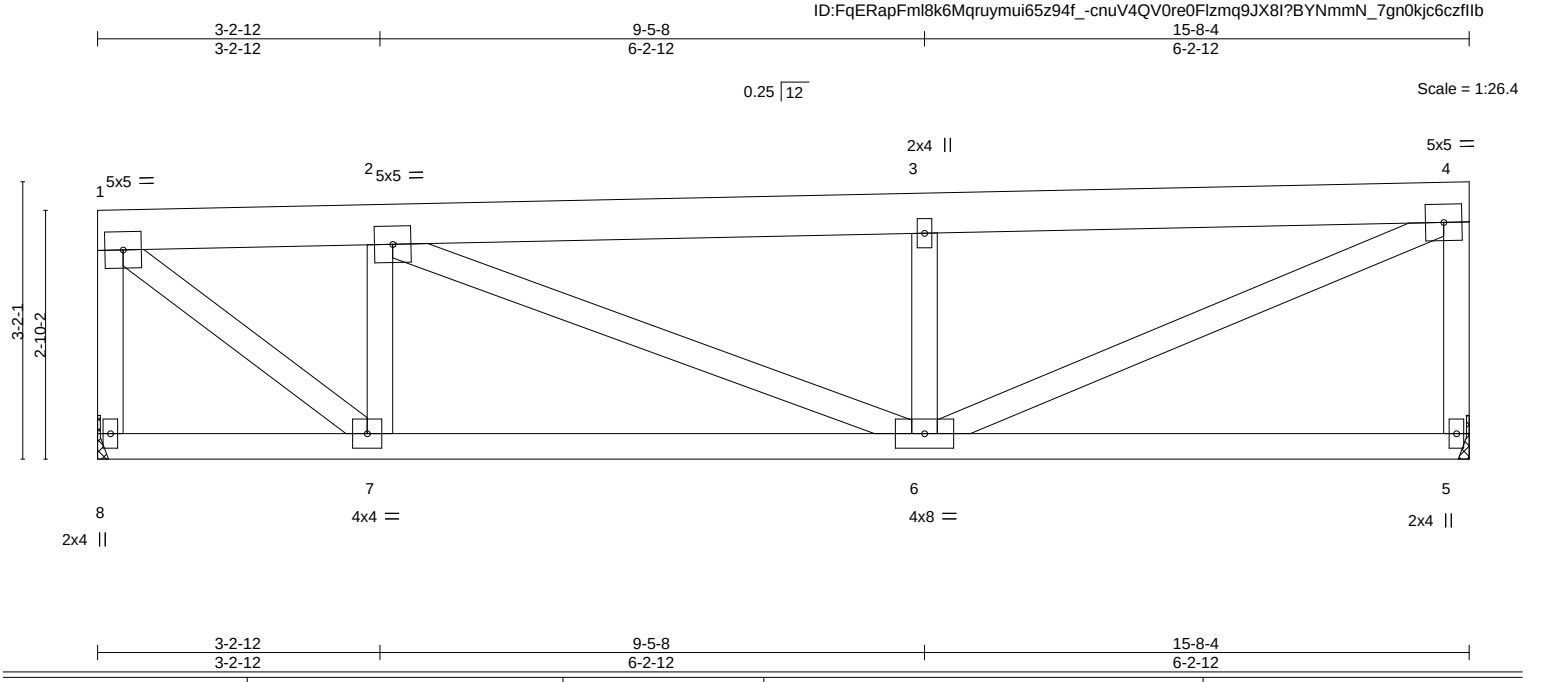

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.03	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.07	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 97 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=60(LC 12)
Max Grav 8=748(LC 21), 5=748(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-730/258, 1-2=-805/276, 2-3=-1163/386, 3-4=-1164/394, 4-5=-699/281
BOT CHORD 6-7=-335/804
WEBS 1-7=-345/1031, 2-7=-544/276, 2-6=-138/383, 3-6=-537/306, 4-6=-440/1275

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	J6	Jack-Open Supported Gable	1	1	I50510932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:05 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-4zStHmWecy86N7L0j02NqCkcrA9UjdVwFOTAf3zfIIa

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2-4-0

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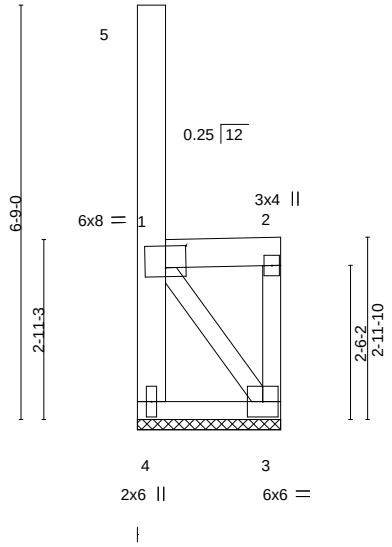

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 30 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=200(LC 14)
Max Uplift 4=-369(LC 11), 3=-364(LC 12)
Max Grav 4=419(LC 14), 3=411(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-574/1100
BOT CHORD 3-4=-410/639
WEBS 1-3=-973/634

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=369, 3=364.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-123, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-155, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 1-2=-9, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 1-2=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 1-2=-9, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 1-2=-3, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M1	Monopitch	1	1	I50510933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:06 2022 Page 1
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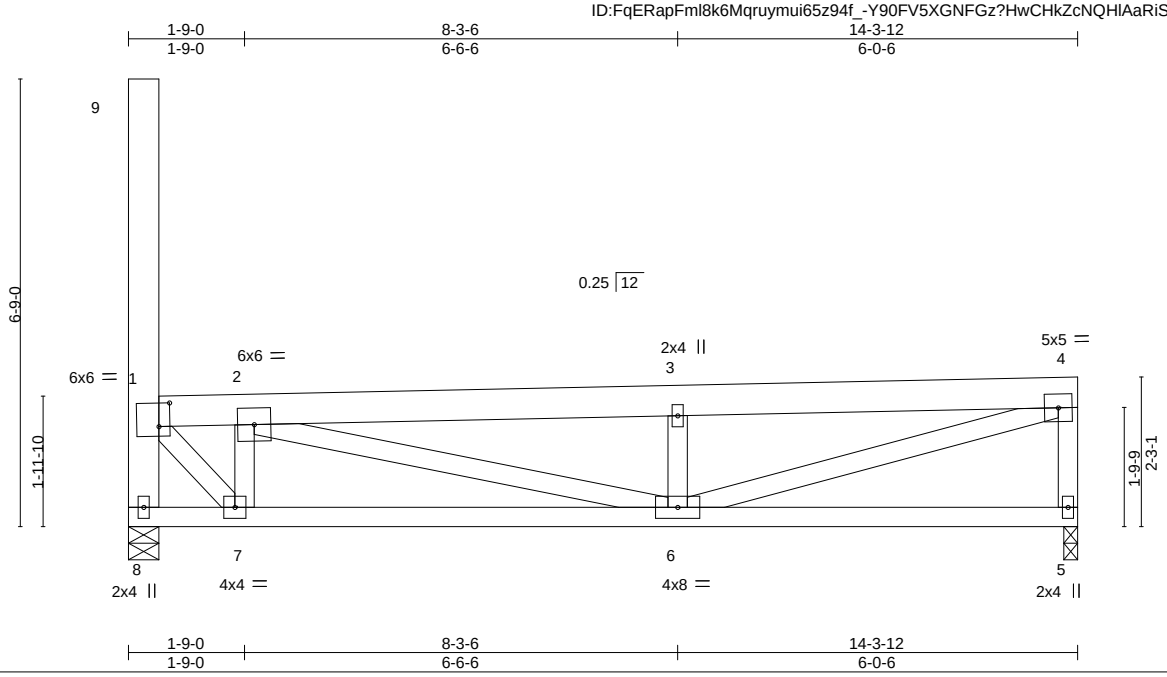

Plate Offsets (X,Y)-- [1:0-2-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.05	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.11	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 95 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-9 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-2-8
Max Horz 8=219(LC 12)
Max Uplift 8=-26(LC 11), 5=-6(LC 15)
Max Grav 8=937(LC 21), 5=739(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-957/346, 1-2=-1030/730, 2-3=-1702/710, 3-4=-1699/718, 4-5=-690/327
BOT CHORD 7-8=-456/714, 6-7=-779/1036
WEBS 1-7=-467/1388, 2-7=-887/410, 2-6=-727/759, 3-6=-580/314, 4-6=-771/1777

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 5-8=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-3=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-3=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-3=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70

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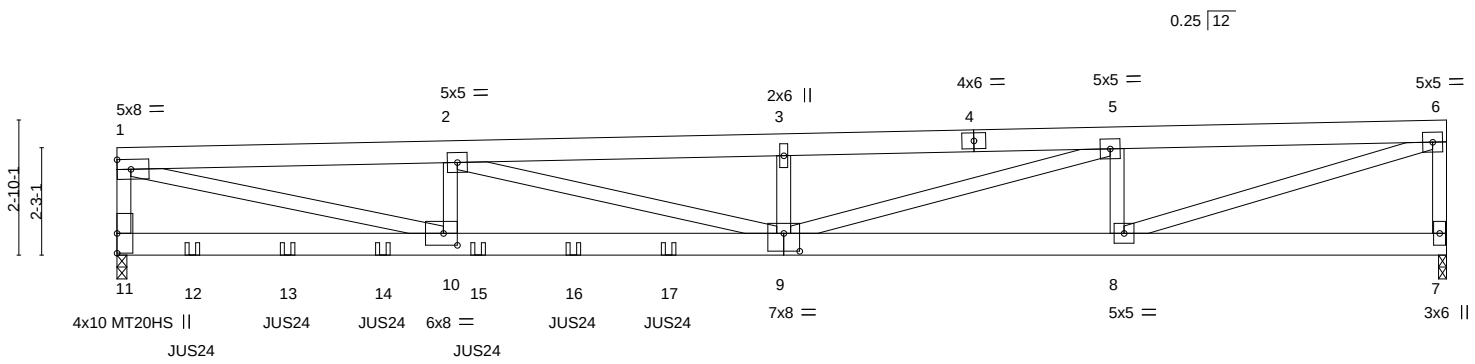
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M1G	MONOPITCH GIRDER	1	2	I50510934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:08 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-UY8?wnYWvtWhEb3bO9c4SrMADN1qws8MxMhqFOzfIIX

7-0-0	14-0-0	21-0-0	27-11-0
7-0-0	7-0-0	7-0-0	6-11-0

Scale: 1/4"=1'



7-0-0	14-0-0	21-0-0	27-11-0
7-0-0	7-0-0	7-0-0	6-11-0

Plate Offsets (X,Y)-- [9:0-4-0,0-4-8], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.36	9-10	>922	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.54	9-10	>616	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 366 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-10: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-1 oc bracing.

REACTIONS. (size) 11=0-2-8, 7=0-2-0
Max Horz 11=51(LC 12)
Max Uplift 11=-780(LC 11), 7=-197(LC 15)
Max Grav 11=3225(LC 21), 7=1950(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-2760/889, 1-2=-8397/2835, 2-3=-8533/2606, 3-5=-8528/2613, 5-6=-4965/1397, 6-7=-1853/542
BOT CHORD 10-11=-213/381, 9-10=-2886/8385, 8-9=-1401/4958
WEBS 1-10=-2787/8275, 2-10=-1038/485, 2-9=-701/980, 3-9=-754/221, 5-9=-1302/3740, 5-8=-1617/604, 6-8=-1439/5137

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11, 7.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=780, 7=197.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-0 from the left end to 11-7-0 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-130, 3-6=-70, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-269(B) 13=-269(B) 14=-269(B) 15=-269(B) 16=-269(B) 17=-269(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-105, 3-6=-60, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-218(B) 13=-218(B) 14=-218(B) 15=-218(B) 16=-218(B) 17=-218(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-112, 3-6=-67, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-218(B) 13=-218(B) 14=-218(B) 15=-218(B) 16=-218(B) 17=-218(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-84, 3-6=-39, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-218(B) 13=-218(B) 14=-218(B) 15=-218(B) 16=-218(B) 17=-218(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 3-6=-79, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-269(B) 13=-269(B) 14=-269(B) 15=-269(B) 16=-269(B) 17=-269(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-102, 3-6=-42, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-269(B) 13=-269(B) 14=-269(B) 15=-269(B) 16=-269(B) 17=-269(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-96, 3-6=-51, 7-11=-20
   Horz: 1-11=13, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
   Vert: 12=137(B) 13=137(B) 14=137(B) 15=137(B) 16=136(B) 17=136(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-102, 3-6=-57, 7-11=-20
   Horz: 1-11=-3, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
   Vert: 12=137(B) 13=137(B) 14=137(B) 15=137(B) 16=136(B) 17=136(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-96, 3-6=-51, 7-11=-20
   Horz: 1-11=10, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
   Vert: 12=137(B) 13=137(B) 14=137(B) 15=137(B) 16=136(B) 17=136(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-102, 3-6=-57, 7-11=-20
   Horz: 1-11=-2, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
   Vert: 12=137(B) 13=137(B) 14=137(B) 15=137(B) 16=136(B) 17=136(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-130, 3-6=-70, 7-11=-20
   Concentrated Loads (lb)
   Vert: 12=-269(B) 13=-269(B) 14=-269(B) 15=-269(B) 16=-269(B) 17=-269(B)
49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-96, 3-6=-51, 7-11=-20
   Horz: 1-11=13, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
   Vert: 12=-297(B) 13=-297(B) 14=-297(B) 15=-297(B) 16=-296(B) 17=-296(B)
50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-102, 3-6=-57, 7-11=-20
   Horz: 1-11=-3, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
   Vert: 12=-297(B) 13=-297(B) 14=-297(B) 15=-297(B) 16=-296(B) 17=-296(B)

Continued on page 3

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LOAD CASE(S) Standard

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-96, 3-6=-51, 7-11=-20
Horz: 1-11=10, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 12=-297(B) 13=-297(B) 14=-297(B) 15=-297(B) 16=-296(B) 17=-296(B)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-102, 3-6=-57, 7-11=-20
Horz: 1-11=-2, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 12=-297(B) 13=-297(B) 14=-297(B) 15=-297(B) 16=-296(B) 17=-296(B)

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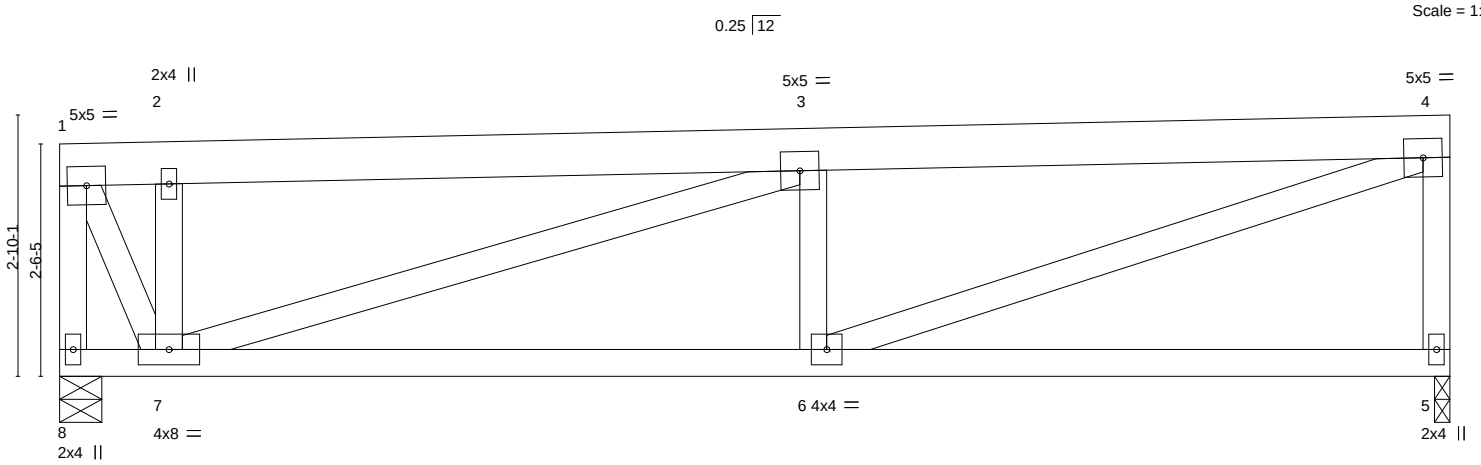
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M2	Monopitch	1	1	I50510935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:09 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-ykiO77Z9gAeXslenys7J?2vN8nQ_fG1WA?RNoqzfIIW

1-2-4 | 8-2-4 | 15-1-4
1-2-4 | 7-0-0 | 6-11-0

Scale = 1:25.0



1-2-4 | 8-2-4 | 15-1-4
1-2-4 | 7-0-0 | 6-11-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.05	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.12	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 92 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-2-0
Max Horz 8=53(LC 12)
Max Grav 8=983(LC 21), 5=778(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1032/215, 1-2=-639/174, 2-3=-655/183, 3-4=-1503/449, 4-5=-722/279
BOT CHORD 6-7=-478/1496
WEBS 1-7=-361/1482, 2-7=-915/306, 3-7=-896/309, 3-6=-392/264, 4-6=-489/1592

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 3-4=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-3=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-3=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-3=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=13, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-3, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=10, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-2, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70

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Chesterfield, MO 63017

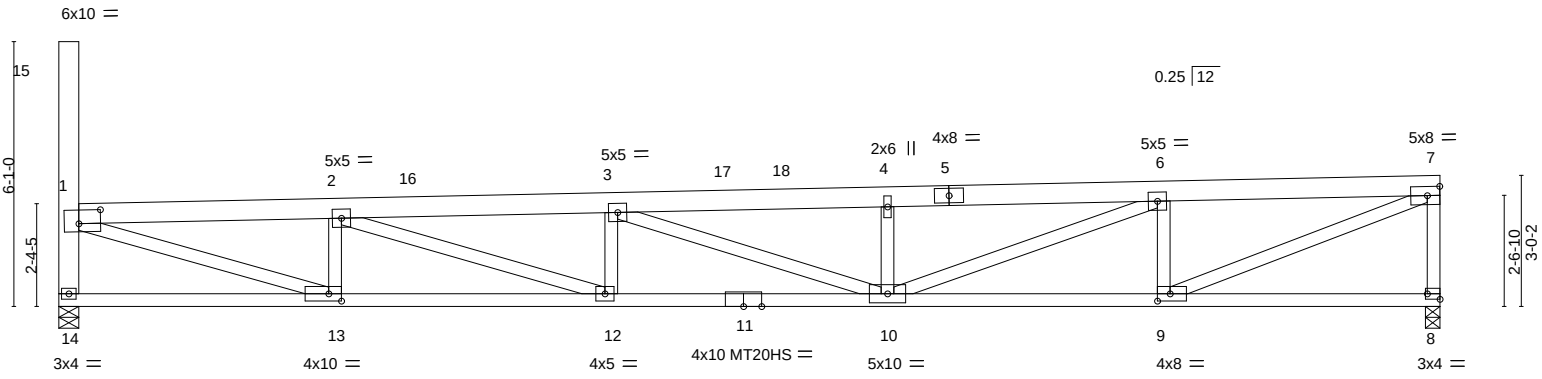
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M3	Monopitch	5	1	I50510936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:10 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-RxGmKTanRUnOTuD_WZeYXGRXCBm_OhvfOfAxKGzfIIV

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.9



6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-6-0,0-3-12], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.36	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.71	10-12	>526	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-4-0
Max Horz 14=197(LC 12)
Max Grav 14=1847(LC 21), 8=1587(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1773/318, 1-2=-4064/846, 2-3=-5525/1026, 3-4=-5177/917, 4-6=-5177/922, 6-7=-3274/566, 7-8=-1523/310
BOT CHORD 13-14=-378/420, 12-13=-903/4054, 10-12=-1077/5518, 9-10=-601/3268
WEBS 1-13=-693/4027, 2-13=-1131/294, 2-12=-385/1542, 3-12=-358/198, 3-10=-367/121, 4-10=-502/177, 6-10=-388/2046, 6-9=-1239/331, 7-9=-629/3488

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-16=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M4	Roof Special Girder	1	1	I50510937
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:12 2022 Page 1
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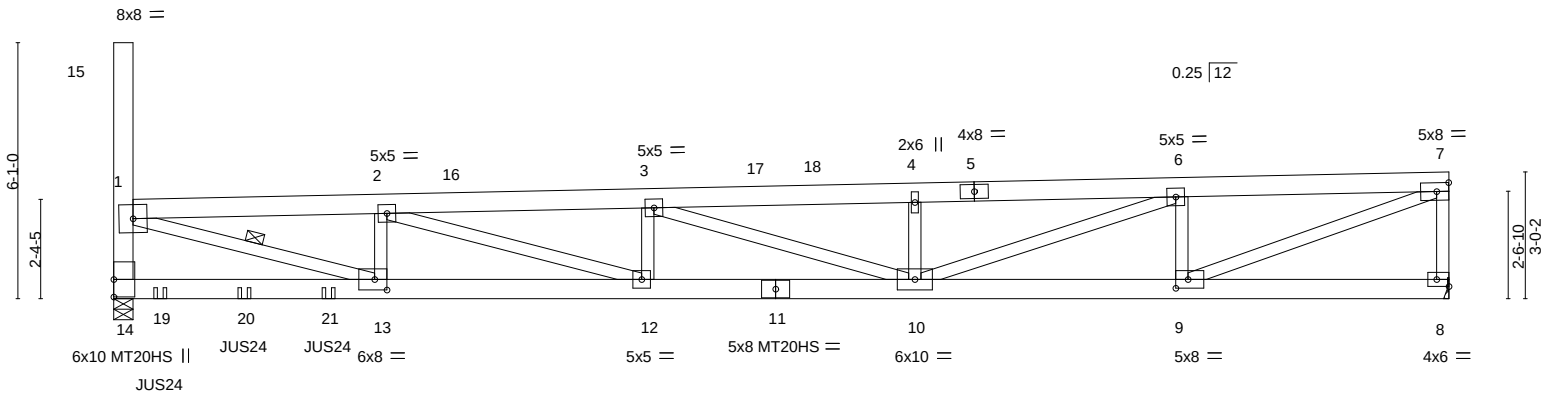
6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:54.8



6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-2-0], [9:0-3-8,0-2-8], [13:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.39	10-12	>959	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.74	10-12	>507	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-3-9 oc bracing.
WEBS	1 Row at midpt 1-13

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=195(LC 12)
Max Uplift 14=-808(LC 11), 8=-34(LC 15)
Max Grav 14=2292(LC 50), 8=1628(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1907/663, 1-2=-4734/2025, 2-3=-6040/1778, 3-4=-5546/1412, 4-6=-5546/1417, 6-7=-3467/798, 7-8=-1551/390
BOT CHORD	13-14=-588/628, 12-13=-2080/4724, 10-12=-1828/6033, 9-10=-831/3461
WEBS	1-13=-1727/4566, 2-13=-1047/490, 2-12=-874/1698, 3-12=-345/272, 3-10=-600/393, 4-10=-495/182, 6-10=-669/2224, 6-9=-1280/422, 7-9=-866/3668

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 14=808.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 5-1-4 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-148(B) 20=-146(B) 21=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-118(B) 20=-117(B) 21=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-118(B) 20=-117(B) 21=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-118(B) 20=-117(B) 21=-117(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-80, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-148(B) 20=-146(B) 21=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-160-to-16=-80
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-148(B) 20=-146(B) 21=-146(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 19=173(B) 20=174(B) 21=173(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 19=173(B) 20=174(B) 21=173(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 19=173(B) 20=174(B) 21=173(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 19=173(B) 20=174(B) 21=173(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	M4	Roof Special Girder	1	1	I50510937 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-148(B) 20=-146(B) 21=-146(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 19=-317(B) 20=-315(B) 21=-315(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 19=-317(B) 20=-315(B) 21=-315(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 19=-317(B) 20=-315(B) 21=-315(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 19=-317(B) 20=-315(B) 21=-315(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T1	Roof Special Girder	2	1	I50510938
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:13 2022 Page 1
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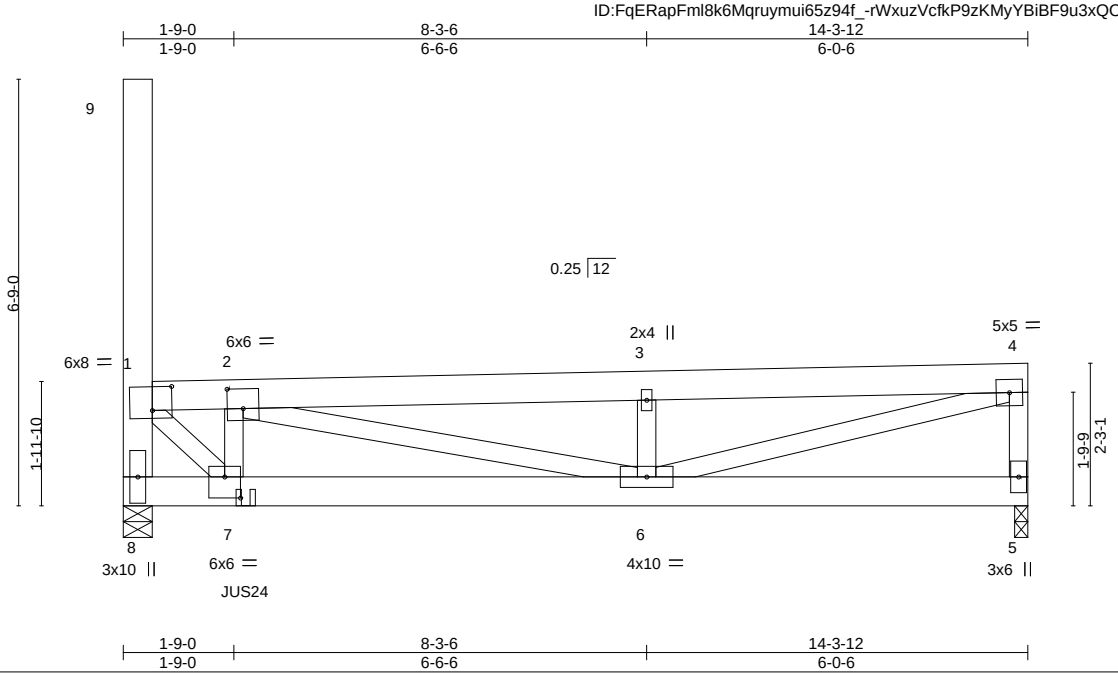

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8], [2:0-3-0,0-3-12], [7:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.06	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.10	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 106 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-9: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-5-6 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-2-8
Max Horz 8=217(LC 40)
Max Uplift 8=-378(LC 11), 5=-49(LC 15)
Max Grav 8=1106(LC 50), 5=755(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1129/709, 1-2=-1382/1065, 2-3=-1775/875, 3-4=-1772/883, 4-5=-688/364
BOT CHORD 7-8=-489/758, 6-7=-1113/1388
WEBS 1-7=-877/1604, 2-7=-847/501, 2-6=-867/826, 3-6=-577/315, 4-6=-940/1847

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=378.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-65, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-39, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-3=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-77, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-157-to-3=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-42, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-3=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Concentrated Loads (lb)
Vert: 7=236(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Concentrated Loads (lb)
Vert: 7=236(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Concentrated Loads (lb)
Vert: 7=236(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Concentrated Loads (lb)
Vert: 7=236(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-146(F)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Concentrated Loads (lb)
Vert: 7=-377(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Concentrated Loads (lb)
Vert: 7=-377(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Concentrated Loads (lb)
Vert: 7=-377(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Concentrated Loads (lb)
Vert: 7=-377(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T2	Roof Special	11	1	I50510939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:52 2022 Page 1
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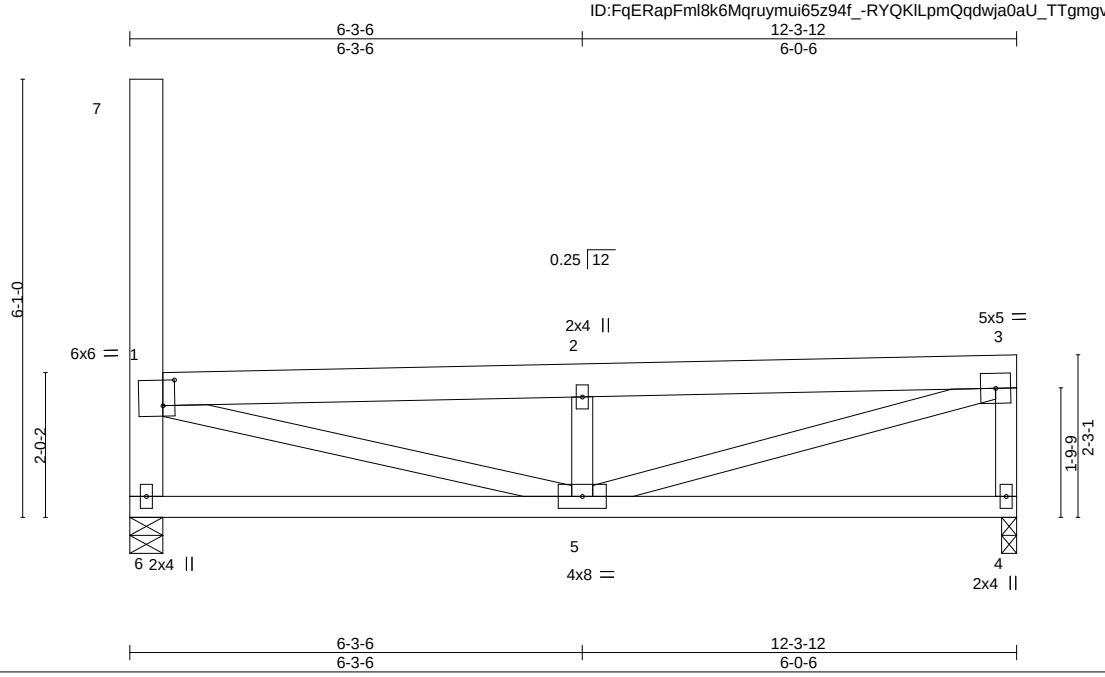

Plate Offsets (X,Y)-- [1:0-2-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.08	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 81 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-2-8
Max Horz 6=193(LC 12)
Max Uplift 6=-27(LC 11), 4=-7(LC 15)
Max Grav 6=781(LC 21), 4=621(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-731/356, 1-2=-1294/629, 2-3=-1291/637, 3-4=-573/310
BOT CHORD 5-6=-512/624
WEBS 1-5=-646/1083, 2-5=-551/344, 3-5=-687/1349

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-77, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T3	Roof Special	1	1	I50510940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:02 2022 Page 1
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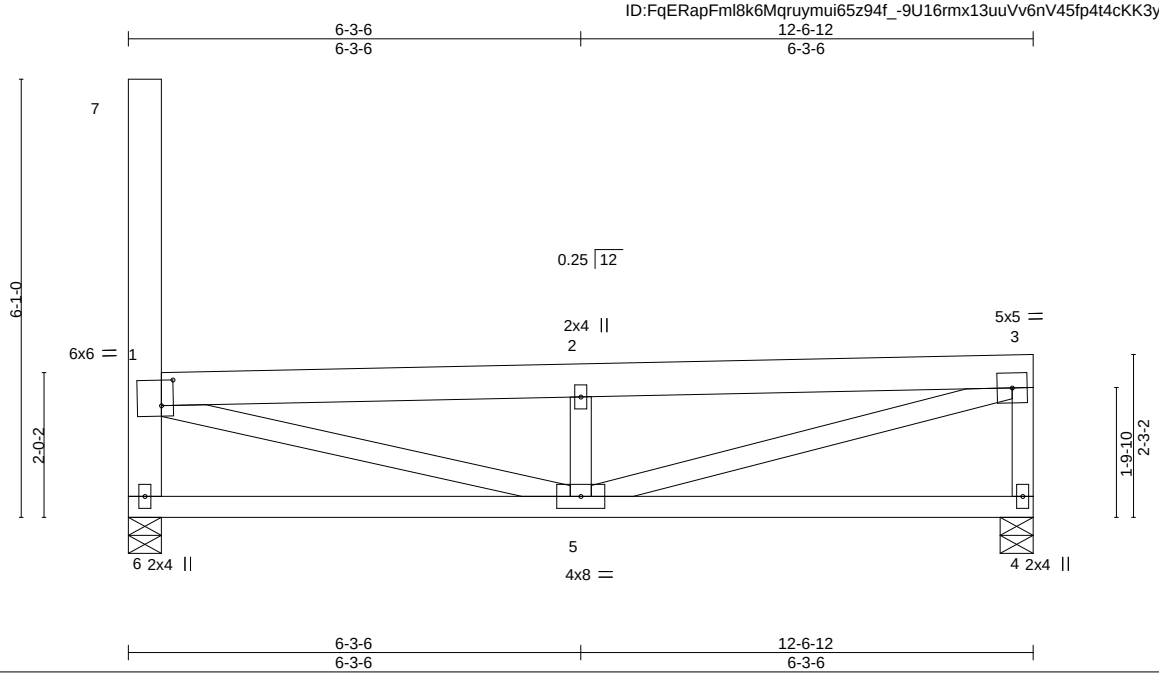

Plate Offsets (X,Y)-- [1:0-2-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 82 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-12 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=193(LC 12)
Max Uplift 6=-25(LC 11), 4=-6(LC 15)
Max Grav 6=794(LC 21), 4=632(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-745/354, 1-2=-1346/646, 2-3=-1343/655, 3-4=-582/312
BOT CHORD 5-6=-509/622
WEBS 1-5=-655/1138, 2-5=-563/349, 3-5=-703/1399

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-77, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T4	Roof Special	2	1	I50510941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:20 2022 Page 1
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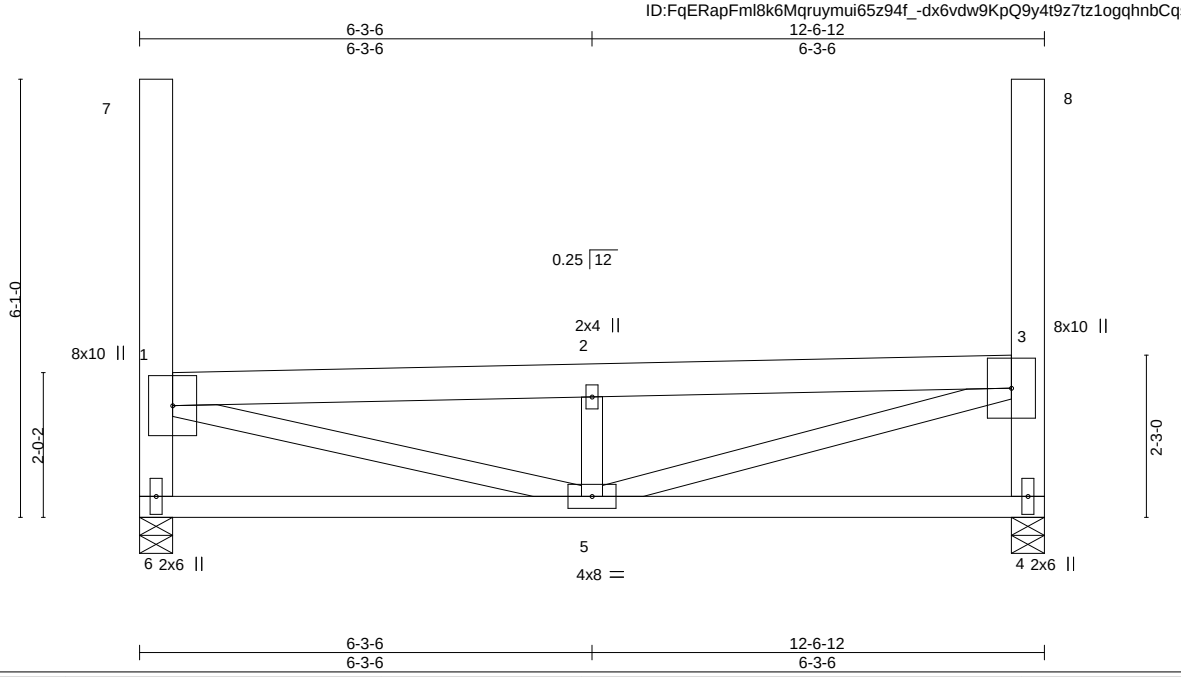

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.08	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.11	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 92 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-6 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=287(LC 12)
Max Uplift 6=-57(LC 11), 4=-13(LC 12)
Max Grav 6=1072(LC 21), 4=1072(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1021/411, 1-2=-2055/254, 2-3=-2053/262, 3-4=-1021/414
BOT CHORD 5-6=-821/784, 4-5=-186/277
WEBS 1-5=-828/1781, 2-5=-876/277, 3-5=-810/1856

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-125, 4-6=-20

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Continued on page 2

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LOAD CASE(S) Standard

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 4-6=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-157, 4-6=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T5	Roof Special Girder	1	1	I50510942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:34 2022 Page 1
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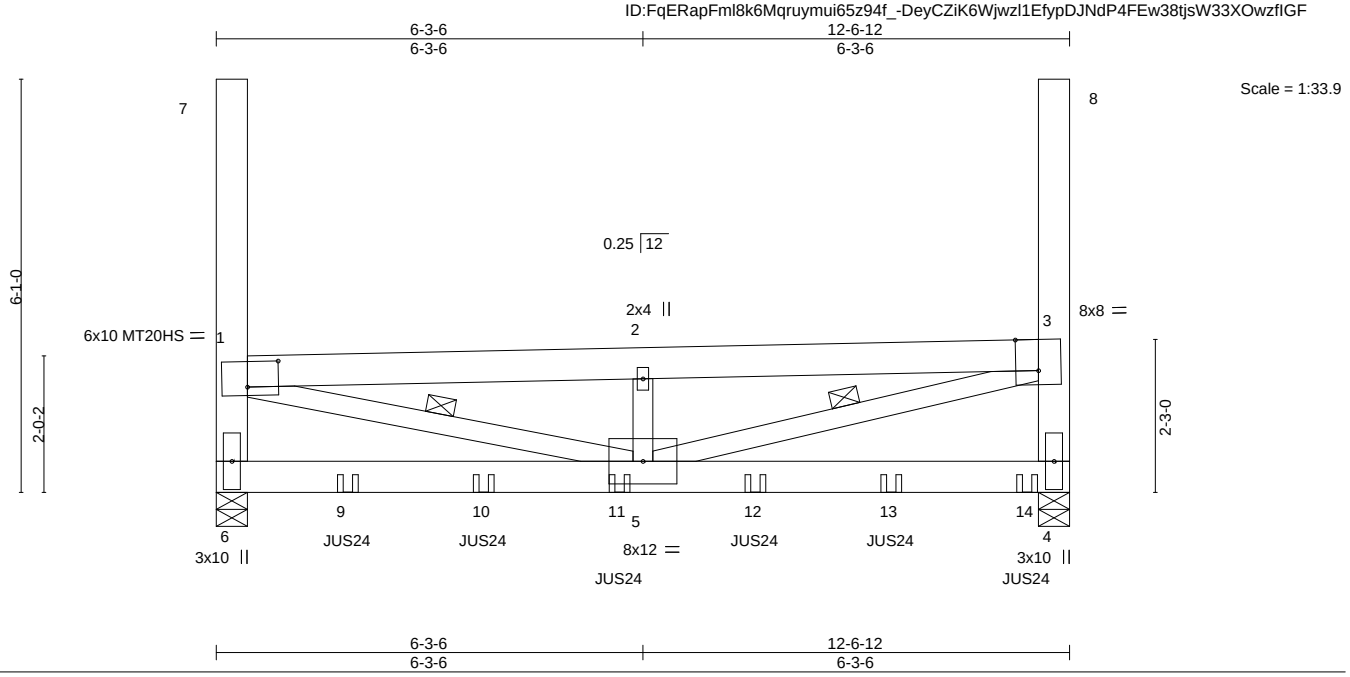

Plate Offsets (X,Y)-- [1:0-5-8,0-4-8], [3:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.15	4-5	>952	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.17	4-5	>862	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 102 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 6-7,4-8: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-0-8 oc bracing.
WEBS	1 Row at midpt 1-5, 3-5

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=285(LC 12)
Max Uplift 6=-859(LC 11), 4=-1004(LC 12)
Max Grav 6=1722(LC 54), 4=1895(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1379/942, 1-2=-3510/2057, 2-3=-3504/2061, 3-4=-1346/945
BOT CHORD 5-6=-964/931, 4-5=-296/399
WEBS 1-5=-2583/3364, 2-5=-790/425, 3-5=-2593/3406

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=859, 4=1004.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 11-11-4 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-156(B) 10=-156(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-162(B)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-125(B) 10=-125(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-131(B)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-125, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-125(B) 10=-125(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-131(B)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-125(B) 10=-125(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-131(B)

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-157, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-156(B) 10=-156(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-162(B)

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-156(B) 10=-156(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-162(B)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18
Concentrated Loads (lb)
Vert: 9=161(B) 10=161(B) 11=160(B) 12=160(B) 13=160(B) 14=153(B)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27
Concentrated Loads (lb)
Vert: 9=161(B) 10=161(B) 11=160(B) 12=160(B) 13=160(B) 14=153(B)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18
Concentrated Loads (lb)
Vert: 9=161(B) 10=161(B) 11=160(B) 12=160(B) 13=160(B) 14=153(B)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18
Concentrated Loads (lb)
Vert: 9=161(B) 10=161(B) 11=160(B) 12=160(B) 13=160(B) 14=153(B)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-156(B) 10=-156(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-162(B)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3, 3-8=18
Concentrated Loads (lb)
Vert: 9=-313(B) 10=-312(B) 11=-312(B) 12=-312(B) 13=-311(B) 14=-317(B)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 1-3=-3, 3-4=-13, 3-8=-27
Concentrated Loads (lb)
Vert: 9=-313(B) 10=-312(B) 11=-312(B) 12=-312(B) 13=-311(B) 14=-317(B)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2, 3-8=18
Concentrated Loads (lb)
Vert: 9=-313(B) 10=-312(B) 11=-312(B) 12=-312(B) 13=-311(B) 14=-317(B)

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510942
PRYOR-R2A	T5	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10, 3-8=18
Concentrated Loads (lb)
Vert: 9=-313(B) 10=-312(B) 11=-312(B) 12=-312(B) 13=-311(B) 14=-317(B)

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF) I50510943
PRYOR-R2A	T6	Roof Special Girder	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:47 2022 Page 1
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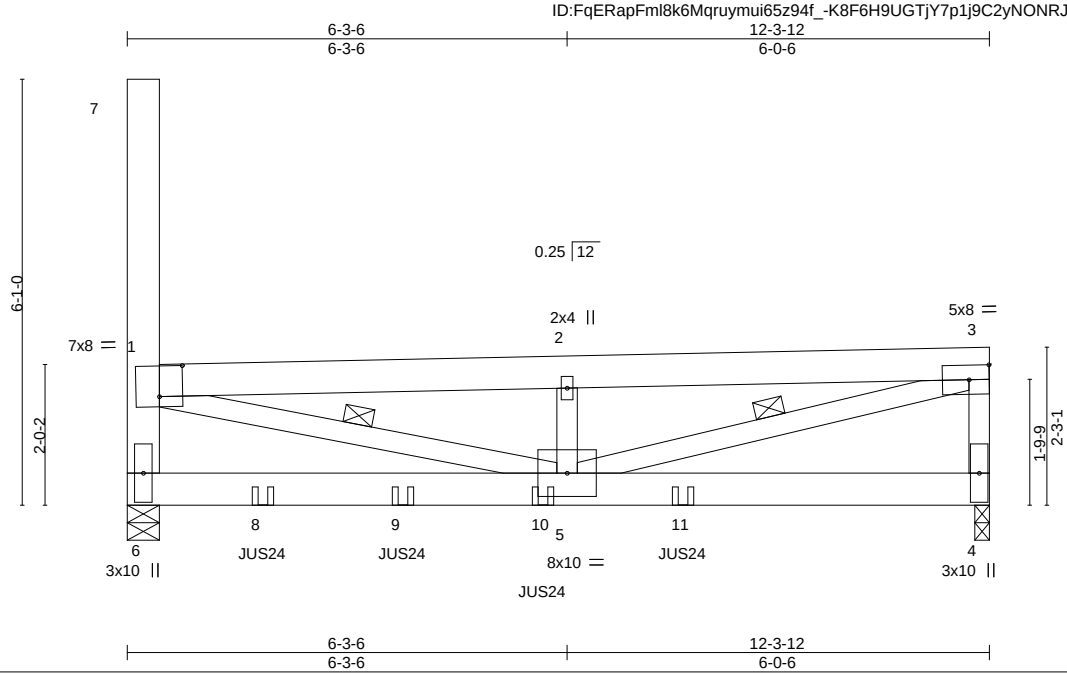

Plate Offsets (X,Y)-- [1:0-4-0,0-5-4], [3:0-3-7,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.17	5-6	>827	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	5-6	>771	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 91 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-2-9 oc bracing.
WEBS	1 Row at midpt 1-5, 3-5

REACTIONS. (size) 6=0-5-8, 4=0-2-8
Max Horz 6=192(LC 12)
Max Uplift 6=-795(LC 11), 4=-507(LC 15)
Max Grav 6=1626(LC 50), 4=1322(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1249/812, 1-2=-3236/2196, 2-3=-3234/2203, 3-4=-1229/777
BOT CHORD 5-6=-628/743
WEBS 1-5=-2181/3017, 2-5=-944/430, 3-5=-2321/3374

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=795, 4=507.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 7-11-4 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 8=-146(F) 9=-146(F) 10=-146(F) 11=-146(F)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-117(F) 9=-117(F) 10=-117(F) 11=-117(F)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-125, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-117(F) 9=-117(F) 10=-117(F) 11=-117(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-117(F) 9=-117(F) 10=-117(F) 11=-117(F)

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-157, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-146(F) 9=-146(F) 10=-146(F) 11=-146(F)

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-146(F) 9=-146(F) 10=-146(F) 11=-146(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Concentrated Loads (lb)
Vert: 8=178(F) 9=177(F) 10=177(F) 11=177(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Concentrated Loads (lb)
Vert: 8=178(F) 9=177(F) 10=177(F) 11=177(F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Concentrated Loads (lb)
Vert: 8=178(F) 9=177(F) 10=177(F) 11=177(F)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10
Concentrated Loads (lb)
Vert: 8=178(F) 9=177(F) 10=177(F) 11=177(F)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-146(F) 9=-146(F) 10=-146(F) 11=-146(F)

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Concentrated Loads (lb)
Vert: 8=-319(F) 9=-319(F) 10=-318(F) 11=-318(F)

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Concentrated Loads (lb)
Vert: 8=-319(F) 9=-319(F) 10=-318(F) 11=-318(F)

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Concentrated Loads (lb)
Vert: 8=-319(F) 9=-319(F) 10=-318(F) 11=-318(F)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF) I50510943
PRYOR-R2A	T6	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-117, 4-6=-20

Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10

Concentrated Loads (lb)

Vert: 8=-319(F) 9=-319(F) 10=-318(F) 11=-318(F)

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T7	Roof Special	1	1	I50510944
					Job Reference (optional)

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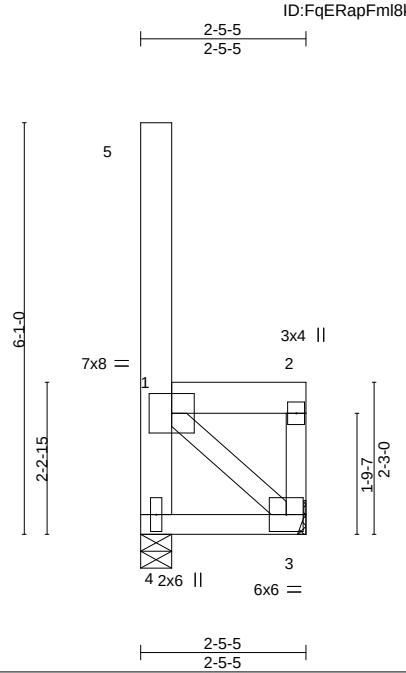

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=185(LC 12)
Max Uplift 4=-287(LC 11), 3=-287(LC 12)
Max Grav 4=354(LC 25), 3=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-384/873
BOT CHORD 3-4=-378/671
WEBS 1-3=-867/486

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=287, 3=287.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T8	Roof Special	1	1	I50510945
					Job Reference (optional)

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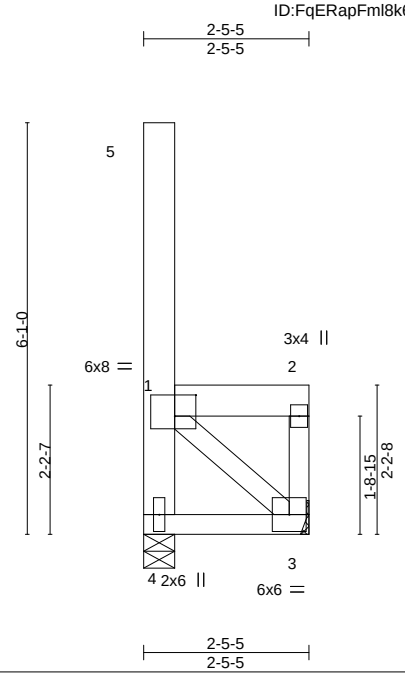

Plate Offsets (X,Y)-- [1:0-3-12,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-288(LC 11), 3=-288(LC 12)
Max Grav 4=354(LC 25), 3=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-387/875
BOT CHORD 3-4=-384/684
WEBS 1-3=-877/490

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=288, 3=288.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T9	Roof Special	1	1	I50510946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:43 2022 Page 1
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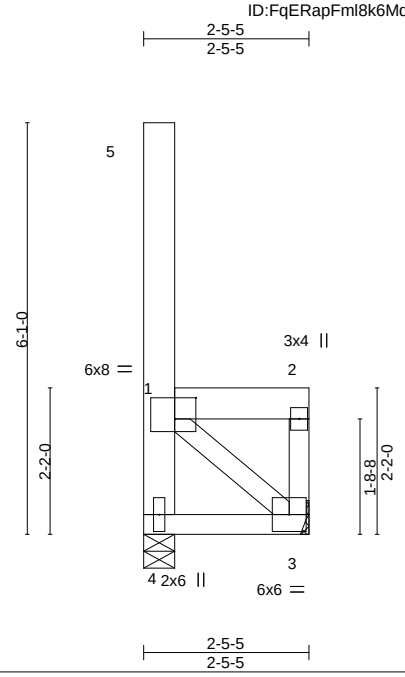

Plate Offsets (X,Y)-- [1:0-3-12,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=186(LC 12)
Max Uplift 4=-288(LC 11), 3=-288(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-391/877
BOT CHORD 3-4=-391/697
WEBS 1-3=-887/494

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=288, 3=288.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T10	Roof Special	1	1	I50510947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:14 2022 Page 1
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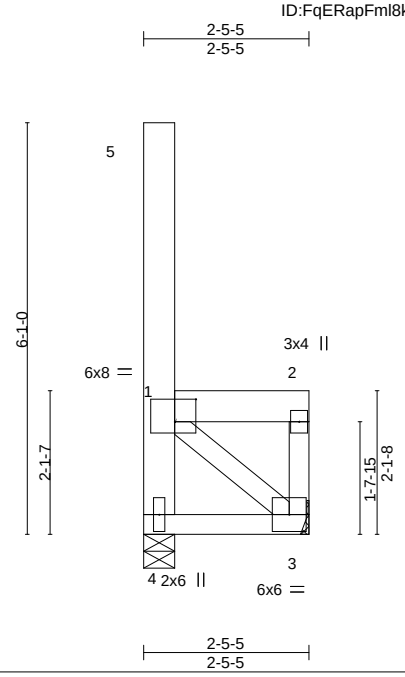

Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 11)
Max Uplift 4=-289(LC 11), 3=-289(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-395/879
BOT CHORD 3-4=-398/712
WEBS 1-3=-898/499

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=289, 3=289.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T11	Roof Special	1	1	I50510948
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:24 2022 Page 1
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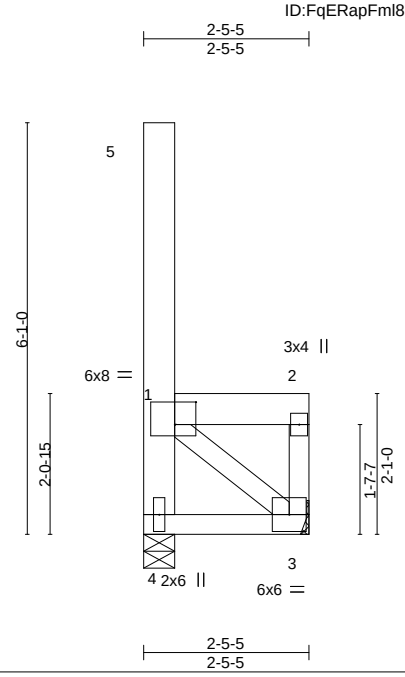

Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-187(LC 11)
Max Uplift 4=-289(LC 11), 3=-289(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/881
BOT CHORD 3-4=-405/727
WEBS 1-3=-909/504

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=289, 3=289.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER
March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T12	Roof Special	1	1	I50510949
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:34 2022 Page 1
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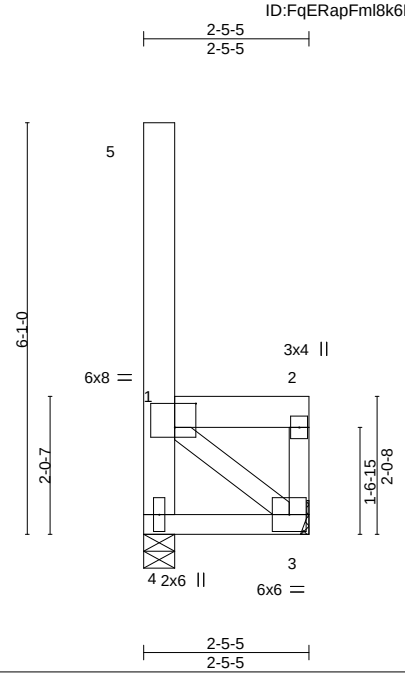

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-188(LC 11)
Max Uplift 4=-290(LC 11), 3=-290(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/882
BOT CHORD 3-4=-413/742
WEBS 1-3=-922/510

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=290, 3=290.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T13	Roof Special	2	1	I50510950
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:13 2022 Page 1
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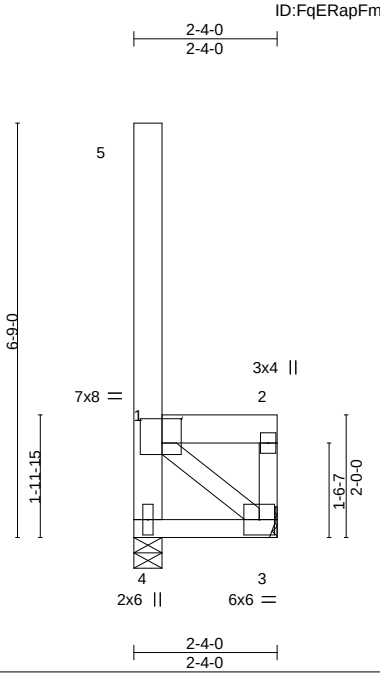

Plate Offsets (X,Y)-- [1:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-212(LC 11)
Max Uplift 4=-384(LC 11), 3=-384(LC 12)
Max Grav 4=425(LC 14), 3=425(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-531/1142
BOT CHORD 3-4=-516/950
WEBS 1-3=-1203/650

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=384, 3=384.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T15	Roof Special	9	1	I50510951
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:44 2022 Page 1
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7-0-0 | 7-0-0 | 7-0-0 | 6-11-0

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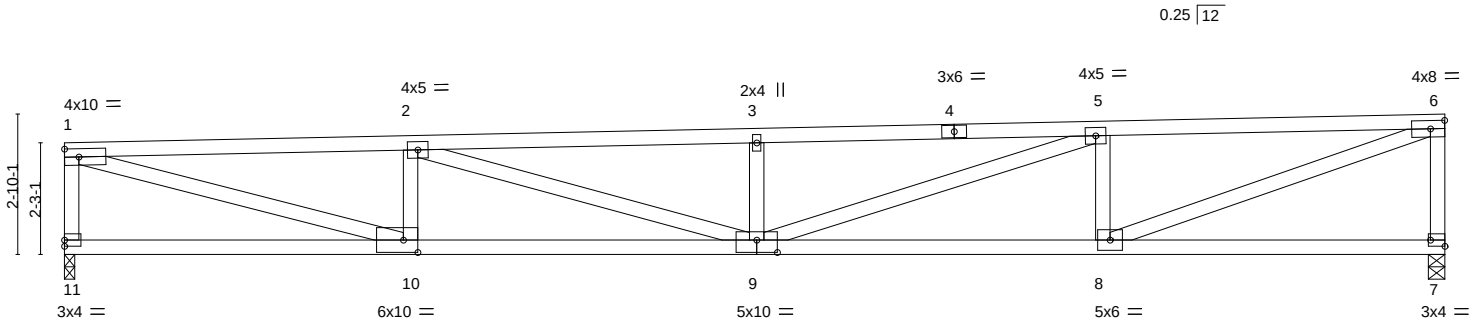

7-0-0 | 14-0-0 | 21-0-0 | 27-11-0
7-0-0 | 7-0-0 | 7-0-0 | 6-11-0

Plate Offsets (X,Y)-- [6:0-3-7,0-2-0], [7:Edge,0-1-8], [9:0-5-0,0-3-0], [10:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.32	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.67	9-10	>496	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 139 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 11=0-2-8, 7=0-4-0
Max Horz 11=54(LC 12)
Max Grav 11=1366(LC 21), 7=1366(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1293/300, 1-2=-3508/688, 2-3=-4327/847, 3-5=-4327/853, 5-6=-3071/620, 6-7=-1298/303
BOT CHORD 9-10=-743/3502, 8-9=-625/3065
WEBS 1-10=-691/3523, 2-10=-839/284, 2-9=-170/855, 3-9=-538/212, 5-9=-274/1328, 5-8=-985/316, 6-8=-635/3192

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T16	Roof Special	5	1	I50510952
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:45 2022 Page 1
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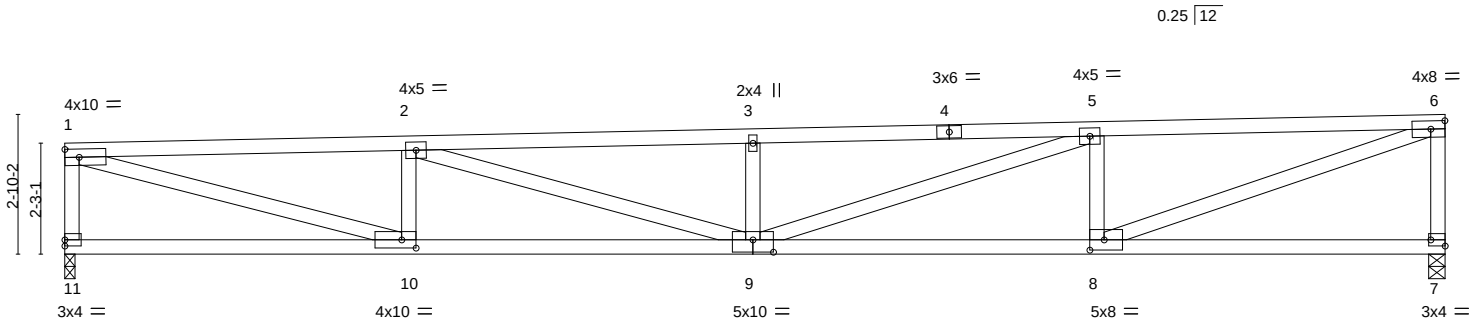

7-0-0 (7-0-0) | 14-0-0 (7-0-0) | 21-0-0 (7-0-0) | 28-1-0 (7-1-0)

Plate Offsets (X,Y)-- [6:0-3-7,0-2-0], [7:Edge,0-1-8], [8:0-3-8,0-2-8], [9:0-5-0,0-3-0], [10:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.33	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.67	9-10	>498	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 139 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-15 oc bracing.

REACTIONS. (size) 11=0-2-8, 7=0-4-0
Max Horz 11=54(LC 14)
Max Grav 11=1375(LC 21), 7=1375(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1301/299, 1-2=-3535/689, 2-3=-4376/851, 3-5=-4376/857, 5-6=-3148/631, 6-7=-1305/304
BOT CHORD 9-10=-743/3529, 8-9=-636/3141
WEBS 1-10=-691/3550, 2-10=-848/285, 2-9=-174/878, 3-9=-535/210, 5-9=-266/1298, 5-8=-984/316, 6-8=-644/3261

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

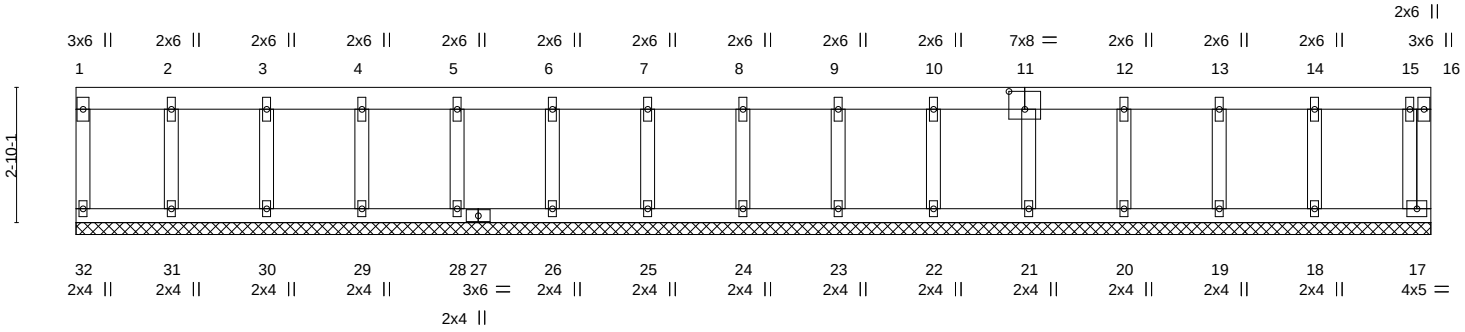
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T17	Roof Special Supported Gable	1	1	I50510953
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:48 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-ZnBpv_mFMb7UEyjpF9PXVwVL3hL4MFy4xvv6mbzfIGz

28-5-5
28-5-5

Scale: 1/4"=1'



28-5-5
28-5-5

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 158 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,19-20,18-19,17-18.

REACTIONS. All bearings 28-5-5.
(lb) - Max Horz 32=53(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 32, 17, 31, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 17, 31, 19, 18.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF) I50510954
PRYOR-R2A	T18	Roof Special Girder	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:50 2022 Page 1
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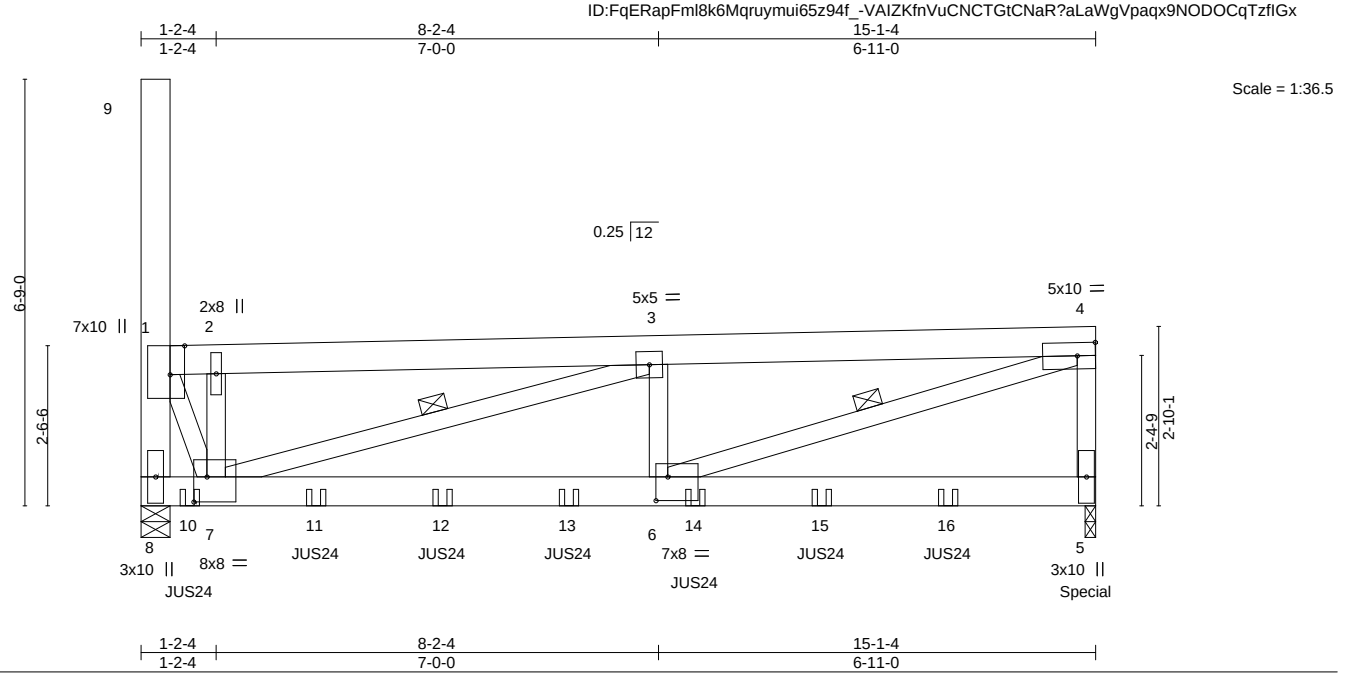

Plate Offsets (X,Y)-- [1:0-5-8,0-2-12], [4:0-3-7,0-2-8], [6:0-2-4,0-4-8], [7:0-2-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.22	5-6	>794	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.24	5-6	>727	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 115 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-9: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-0-2 oc bracing.
WEBS	1 Row at midpt 3-7, 4-6

REACTIONS. (size) 8=0-5-8, 5=0-2-0 (req. 0-2-13)
Max Horz 8=210(LC 12)
Max Uplift 8=-1433(LC 11), 5=-1358(LC 15)
Max Grav 8=2448(LC 50), 5=2390(LC 49)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-3046/2275, 1-2=-1752/1421, 2-3=-1766/1432, 3-4=-4260/2996, 4-5=-1739/1141
BOT CHORD 7-8=-437/593, 6-7=-3035/4257
WEBS 1-7=-2481/3455, 2-7=-969/604, 3-7=-2921/2191, 3-6=-823/847, 4-6=-3197/4508

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1433, 5=1358.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-4 from the left end to 12-9-4 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down and 290 lb up at 14-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-150, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-164(B) 10=-160(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-156(B) 15=-156(B) 16=-156(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-120, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-133(B) 10=-129(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-125(B) 15=-125(B) 16=-125(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-125, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-133(B) 10=-129(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-125(B) 15=-125(B) 16=-125(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-99, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-133(B) 10=-129(B) 11=-125(B) 12=-125(B) 13=-125(B) 14=-125(B) 15=-125(B) 16=-125(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-157, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-164(B) 10=-160(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-156(B) 15=-156(B) 16=-156(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-122, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-164(B) 10=-160(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-156(B) 15=-156(B) 16=-156(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-111, 5-8=-20
   Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
   Concentrated Loads (lb)
   Vert: 5=145(B) 10=206(B) 11=211(B) 12=210(B) 13=210(B) 14=209(B) 15=209(B) 16=153(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-117, 5-8=-20
   Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
   Concentrated Loads (lb)
   Vert: 5=145(B) 10=206(B) 11=211(B) 12=210(B) 13=210(B) 14=209(B) 15=209(B) 16=153(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-111, 5-8=-20
   Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
   Concentrated Loads (lb)
   Vert: 5=145(B) 10=206(B) 11=211(B) 12=210(B) 13=210(B) 14=209(B) 15=209(B) 16=153(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-117, 5-8=-20
   Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
   Concentrated Loads (lb)
   Vert: 5=145(B) 10=206(B) 11=211(B) 12=210(B) 13=210(B) 14=209(B) 15=209(B) 16=153(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-150, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-164(B) 10=-160(B) 11=-156(B) 12=-156(B) 13=-156(B) 14=-156(B) 15=-156(B) 16=-156(B)
49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-111, 5-8=-20
   Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
   Concentrated Loads (lb)
   Vert: 5=-312(B) 10=-367(B) 11=-362(B) 12=-362(B) 13=-361(B) 14=-361(B) 15=-360(B) 16=-305(B)
50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-117, 5-8=-20
   Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
   Concentrated Loads (lb)
   Vert: 5=-312(B) 10=-367(B) 11=-362(B) 12=-362(B) 13=-361(B) 14=-361(B) 15=-360(B) 16=-305(B)
51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-111, 5-8=-20
   Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510954
PRYOR-R2A	T18	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-312(B) 10=-367(B) 11=-362(B) 12=-362(B) 13=-361(B) 14=-361(B) 15=-360(B) 16=-305(B)
52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Concentrated Loads (lb)
Vert: 5=-312(B) 10=-367(B) 11=-362(B) 12=-362(B) 13=-361(B) 14=-361(B) 15=-360(B) 16=-305(B)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T19	Roof Special	2	1	I50510955
					Job Reference (optional)

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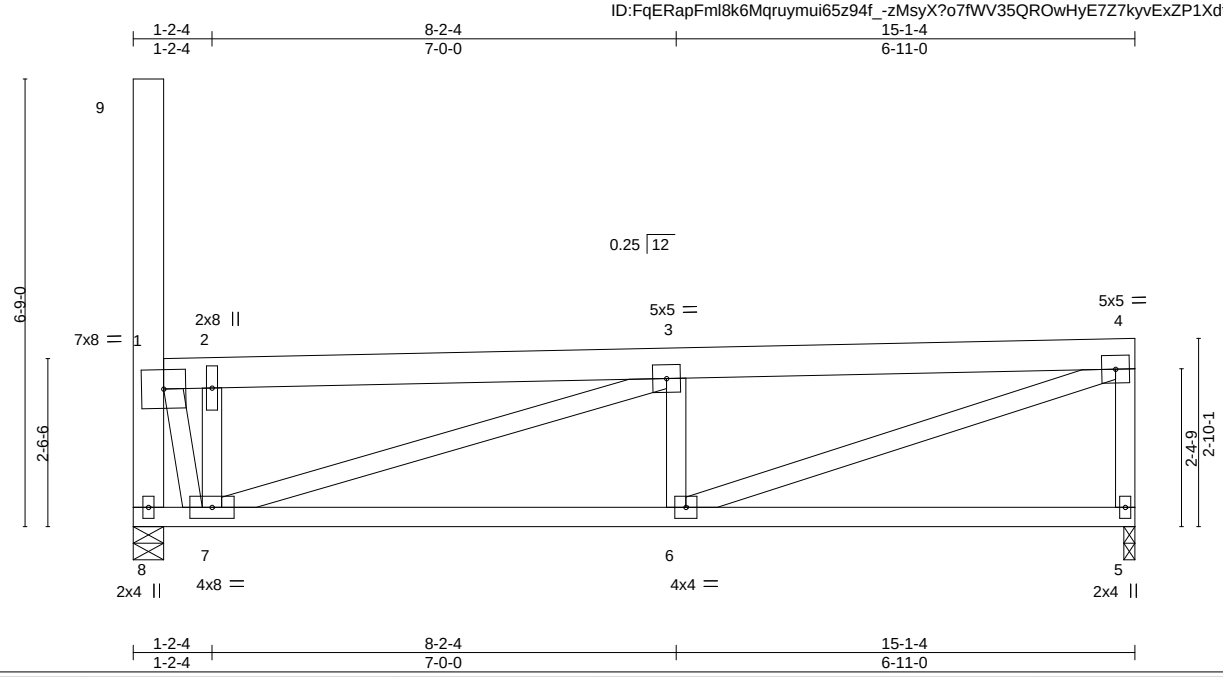

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.05	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.12	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 104 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-2-0
Max Horz 8=211(LC 12)
Max Uplift 8=-21(LC 11)
Max Grav 8=977(LC 21), 5=773(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1035/318, 1-2=-678/509, 2-3=-691/522, 3-4=-1489/598, 4-5=-717/334
BOT CHORD 7-8=-363/513, 6-7=-638/1482
WEBS 1-7=-512/1384, 2-7=-831/532, 3-7=-914/650, 3-6=-387/322, 4-6=-659/1577

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-60, 5-8=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-3=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-3=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-3=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-3=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-3=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-3=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 3-4=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-3=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-3=-70

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T20	Roof Special	1	1	I50510956
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:52 2022 Page 1
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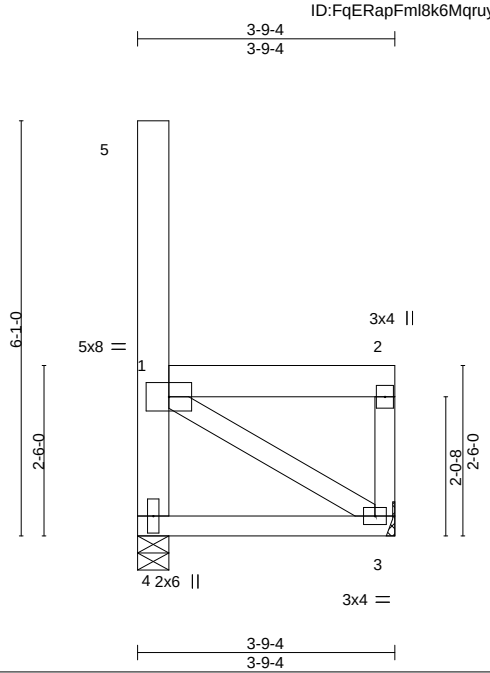

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-181(LC 11)
Max Uplift 4=-168(LC 11), 3=-168(LC 12)
Max Grav 4=354(LC 25), 3=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-320/594
BOT CHORD 3-4=-385/626
WEBS 1-3=-702/430

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=168, 3=168.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510956
PRYOR-R2A	T20	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T21	Roof Special	1	1	I50510957
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:53 2022 Page 1
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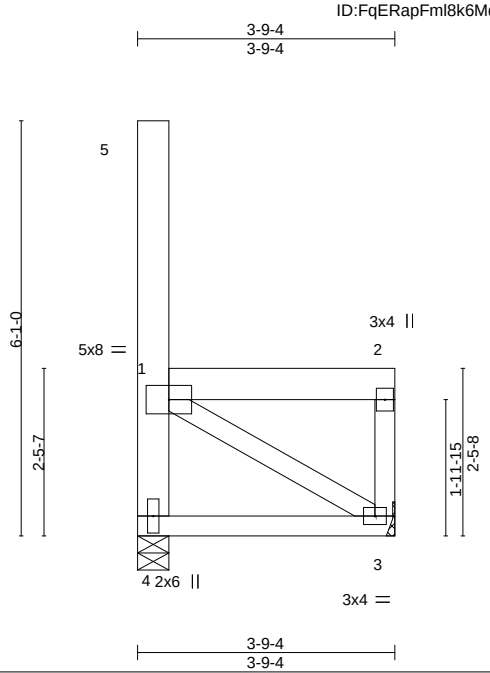

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-169(LC 11), 3=-169(LC 12)
Max Grav 4=354(LC 25), 3=354(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-320/596
BOT CHORD 3-4=-391/637
WEBS 1-3=-712/435

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=169, 3=169.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T22	Roof Special	1	1	I50510958
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:54 2022 Page 1
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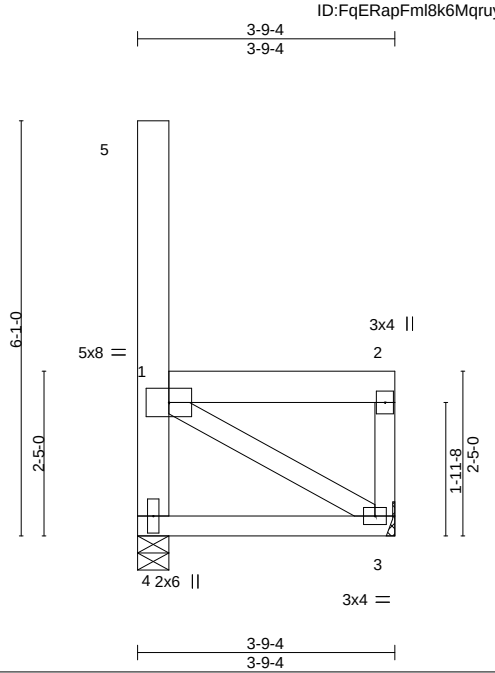

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=182(LC 14)
Max Uplift 4=-169(LC 11), 3=-169(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-321/597
BOT CHORD 3-4=-397/649
WEBS 1-3=-722/441

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=169, 3=169.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T23	Roof Special	1	1	I50510959
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:55 2022 Page 1
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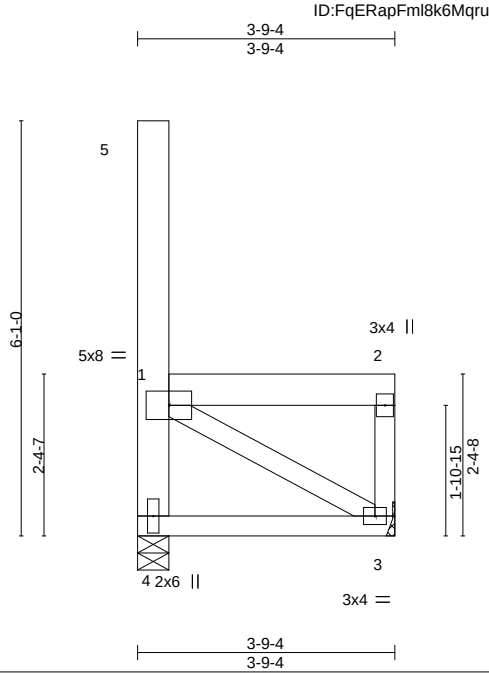

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-183(LC 11)
Max Uplift 4=-170(LC 11), 3=-170(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-321/598
BOT CHORD 3-4=-403/661
WEBS 1-3=-733/446

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=170, 3=170.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T24	Roof Special	1	1	I50510960
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:56 2022 Page 1
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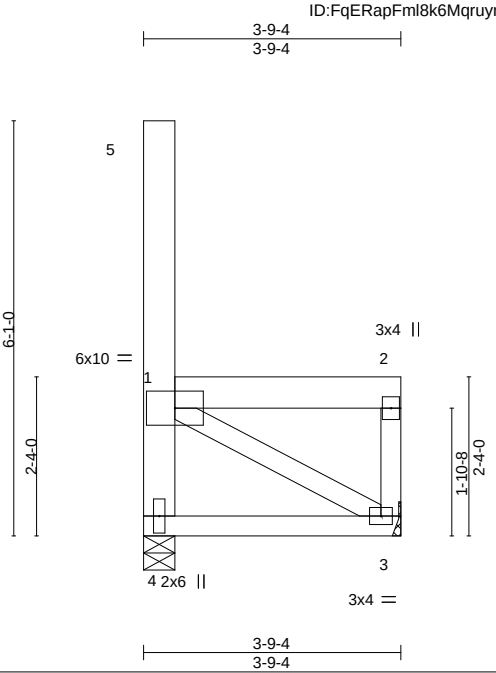

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=183(LC 12)
Max Uplift 4=-170(LC 11), 3=-170(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-321/600
BOT CHORD 3-4=-410/674
WEBS 1-3=-744/452

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=170, 3=170.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510960
PRYOR-R2A	T24	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T25	Roof Special	1	1	I50510961
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:57 2022 Page 1
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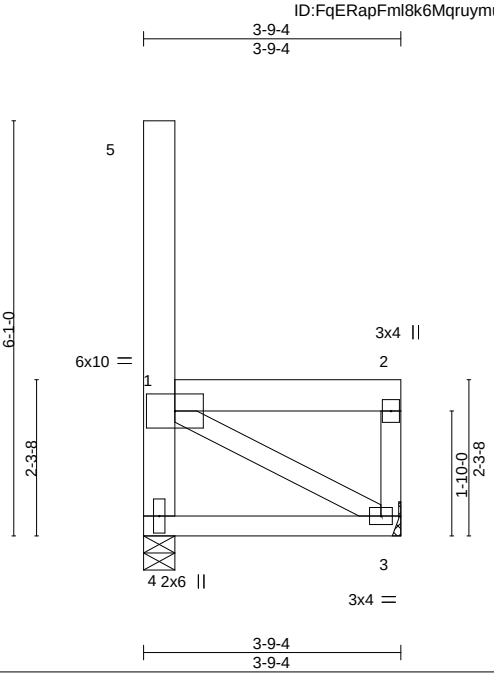

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=184(LC 12)
Max Uplift 4=-170(LC 11), 3=-170(LC 12)
Max Grav 4=355(LC 25), 3=355(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-322/601
BOT CHORD 3-4=-417/687
WEBS 1-3=-756/458

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=170, 3=170.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510961
PRYOR-R2A	T25	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T26	Roof Special	1	1	I50510962
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:58 2022 Page 1
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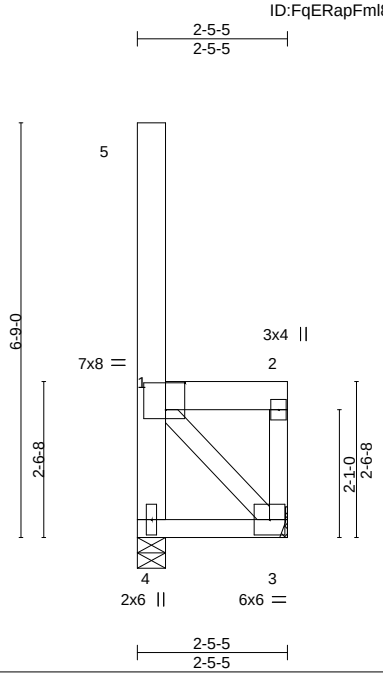

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-13 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-205(LC 11)
Max Uplift 4=-356(LC 11), 3=-356(LC 12)
Max Grav 4=406(LC 25), 3=406(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-458/1063
BOT CHORD 3-4=-404/719
WEBS 1-3=-995/556

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=356, 3=356.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T27	Roof Special	1	1	I50510963
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:00 2022 Page 1
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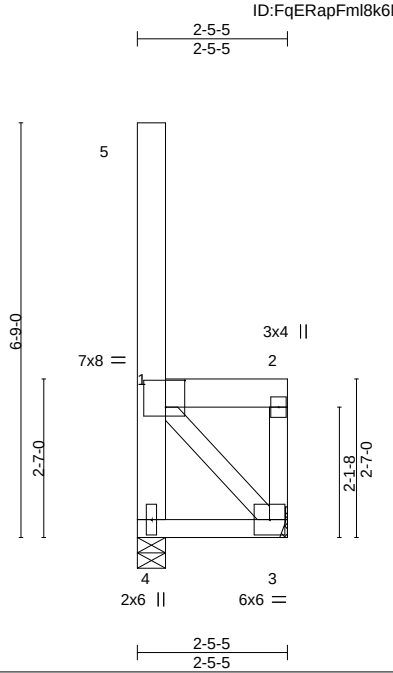

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-204(LC 11)
Max Uplift 4=-355(LC 11), 3=-355(LC 12)
Max Grav 4=405(LC 25), 3=405(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-457/1061
BOT CHORD 3-4=-399/708
WEBS 1-3=-988/553

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=355, 3=355.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T28	Roof Special	1	1	I50510964
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:01 2022 Page 1
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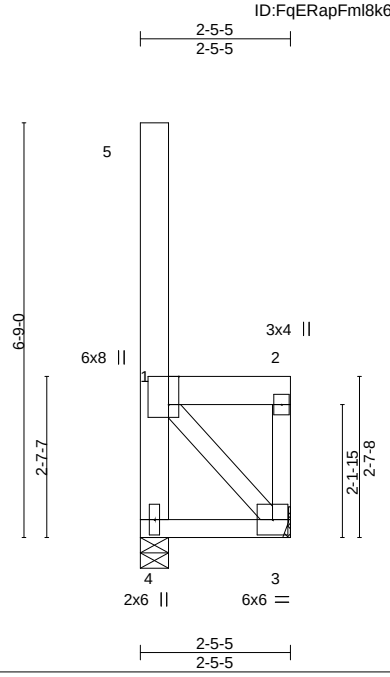

Plate Offsets (X,Y)-- [1:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-203(LC 11)
Max Uplift 4=-355(LC 11), 3=-355(LC 12)
Max Grav 4=405(LC 25), 3=405(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-457/1059
BOT CHORD 3-4=-394/697
WEBS 1-3=-980/550

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=355, 3=355.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T29	Roof Special	1	1	I50510965
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:01 2022 Page 1
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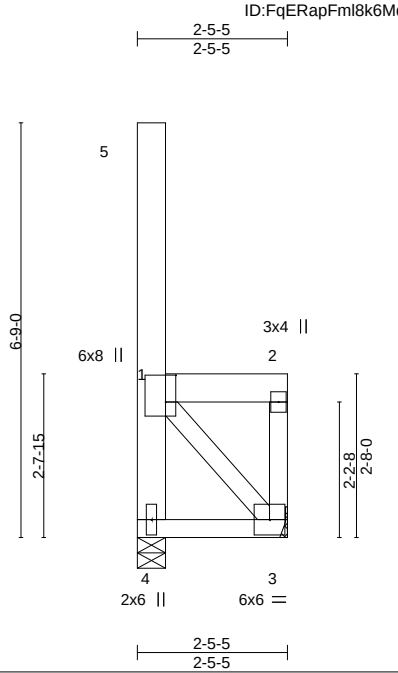

Plate Offsets (X,Y)-- [1:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-203(LC 11)
Max Uplift 4=-354(LC 11), 3=-354(LC 12)
Max Grav 4=404(LC 25), 3=404(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-457/1056
BOT CHORD 3-4=-389/686
WEBS 1-3=-974/548

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=354, 3=354.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T30	Roof Special	1	1	I50510966
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:03 2022 Page 1
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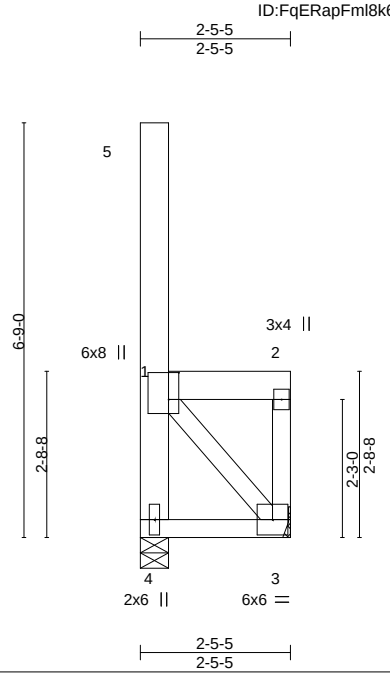

Plate Offsets (X,Y)-- [1:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-202(LC 11)
Max Uplift 4=-353(LC 11), 3=-353(LC 12)
Max Grav 4=404(LC 25), 3=404(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-457/1054
BOT CHORD 3-4=-384/676
WEBS 1-3=-967/546

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=353, 3=353.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER
March 2,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510966
PRYOR-R2A	T30	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T31	Roof Special	1	1	I50510967
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:04 2022 Page 1
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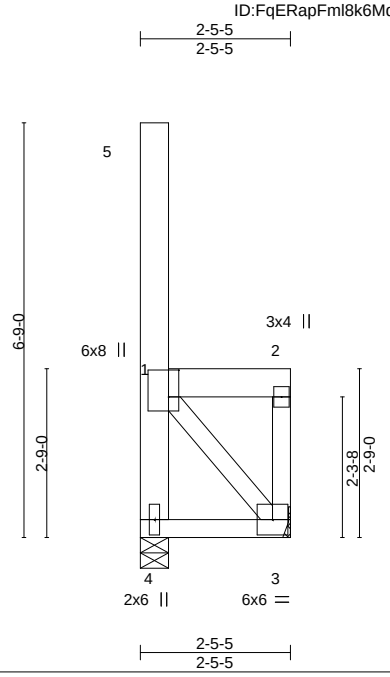

Plate Offsets (X,Y)-- [1:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-202(LC 11)
Max Uplift 4=-353(LC 11), 3=-353(LC 12)
Max Grav 4=403(LC 25), 3=403(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-457/1051
BOT CHORD 3-4=-379/666
WEBS 1-3=-961/544

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=353, 3=353.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T32	Roof Special	1	1	I50510968
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:05 2022 Page 1
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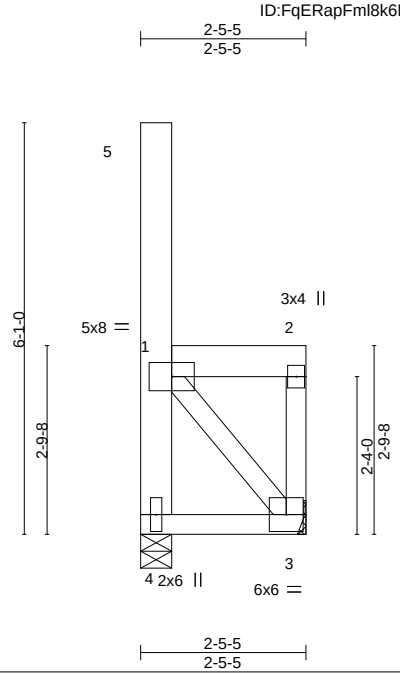

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-177(LC 11)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=348(LC 25), 3=348(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-354/844
BOT CHORD 3-4=-318/543
WEBS 1-3=-779/454

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T33	Roof Special	1	1	I50510969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:07 2022 Page 1
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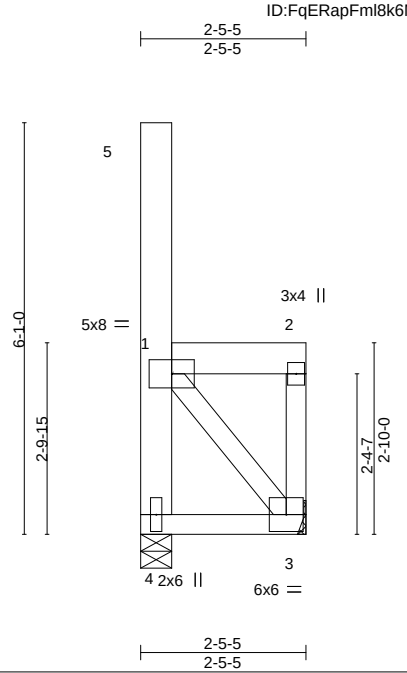

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-176(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=348(LC 25), 3=348(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-354/842
BOT CHORD 3-4=-315/535
WEBS 1-3=-775/453

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T34	Roof Special	1	1	I50510970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:08 2022 Page 1
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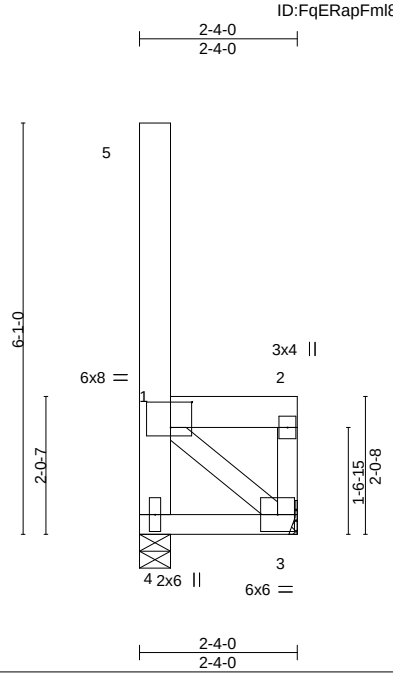

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-6 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-188(LC 11)
Max Uplift 4=-306(LC 11), 3=-306(LC 12)
Max Grav 4=361(LC 25), 3=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-419/924
BOT CHORD 3-4=-408/737
WEBS 1-3=-935/515

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=306, 3=306.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510970
PRYOR-R2A	T34	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T35	Roof Special	1	1	I50510971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:12 2022 Page 1
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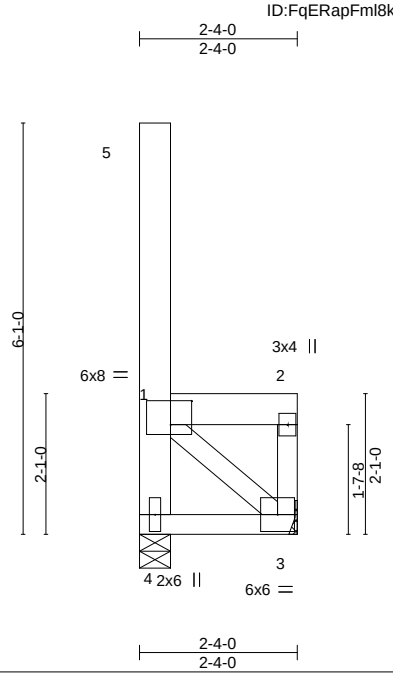

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=187(LC 12)
Max Uplift 4=-306(LC 11), 3=-306(LC 12)
Max Grav 4=361(LC 25), 3=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-416/923
BOT CHORD 3-4=-400/721
WEBS 1-3=-923/510

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=306, 3=306.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T36	Roof Special	1	1	I50510972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:12 2022 Page 1
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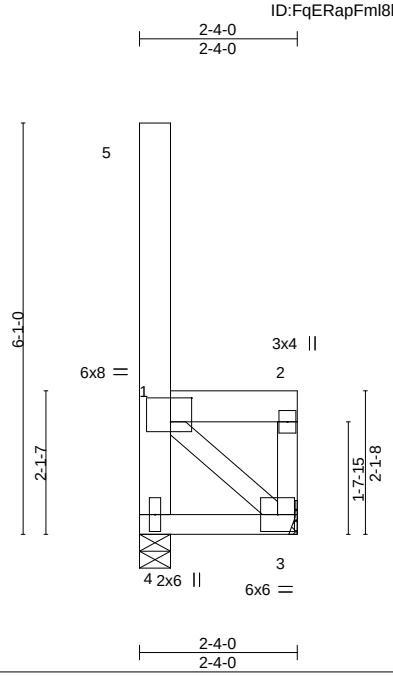

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 13)
Max Uplift 4=-305(LC 11), 3=-305(LC 12)
Max Grav 4=360(LC 25), 3=360(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-412/921
BOT CHORD 3-4=-393/706
WEBS 1-3=-912/505

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=305, 3=305.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T37	Roof Special	1	1	I50510973
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:13 2022 Page 1
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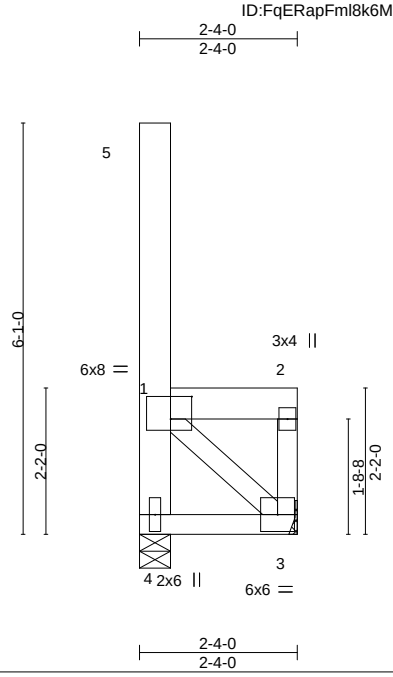

Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 11)
Max Uplift 4=-305(LC 11), 3=-305(LC 12)
Max Grav 4=360(LC 25), 3=360(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-408/919
BOT CHORD 3-4=-386/692
WEBS 1-3=-902/500

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=305, 3=305.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510973
PRYOR-R2A	T37	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T38	GABLE	1	1	I50510974
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:17 2022 Page 1
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7-4-3 | 14-8-6 | 22-0-9 | 29-4-12 | 32-2-12
7-4-3 | 7-4-3 | 7-4-3 | 7-4-3 | 2-10-0

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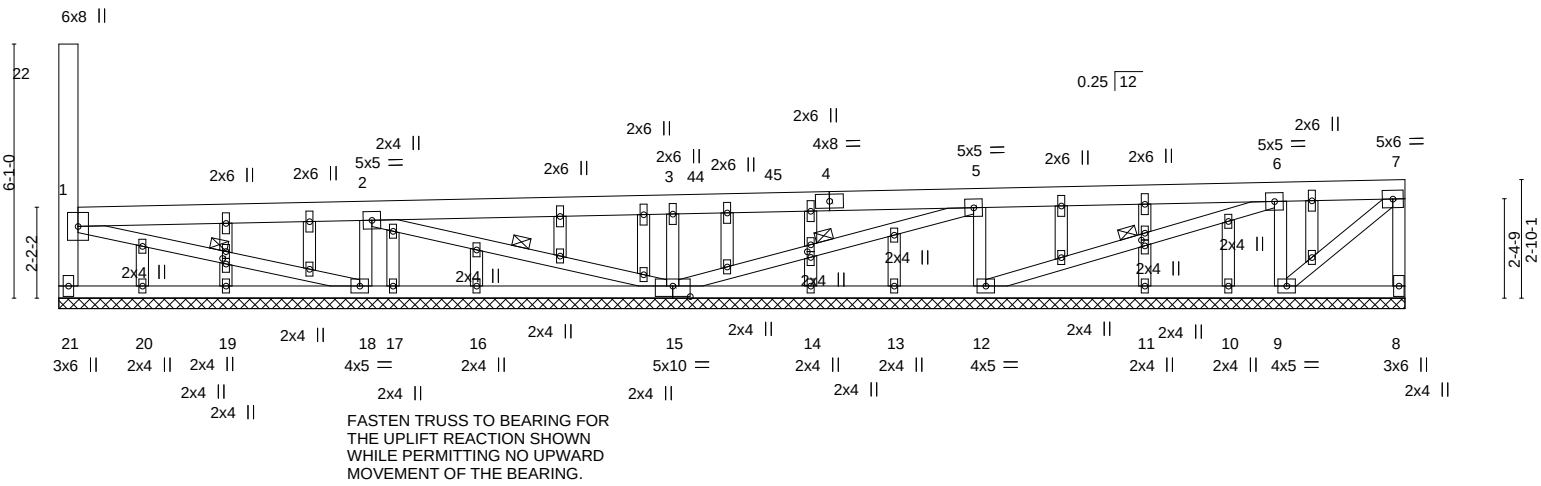

7-4-3 | 14-8-6 | 22-0-9 | 29-4-12 | 32-2-12
7-4-3 | 7-4-3 | 7-4-3 | 7-4-3 | 2-10-0

Plate Offsets (X,Y)-- [15:0-5-0,0-3-0], [24:0-1-9,0-1-0], [35:0-1-10,0-1-0], [40:0-1-11,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	-0.02	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 21-22: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-5-13 oc bracing.
WEBS	1 Row at midpt 1-18, 2-15, 5-15, 6-12

REACTIONS. All bearings 32-2-12.
(lb) - Max Horz 21=200(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 18, 15, 12, 20, 17, 10 except 21=-535(LC 44), 8=-968(LC 53), 9=-655(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 20, 19, 16, 14, 13, 11, 10 except 21=719(LC 71), 8=1010(LC 64), 18=819(LC 21), 15=662(LC 21), 12=676(LC 21), 9=929(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-668/505, 1-2=-1669/1656, 2-3=-1471/1493, 3-5=-1529/1560, 5-6=-1728/1754, 6-7=-1174/1169, 7-8=-979/981
BOT CHORD	20-21=-693/610, 19-20=-1093/1010, 18-19=-1763/1680, 17-18=-287/247, 16-17=-540/499, 15-16=-1479/1439, 14-15=-1223/1216, 13-14=-563/556, 12-13=-310/302, 11-12=-880/876, 10-11=-312/308, 9-10=-602/598, 8-9=-573/574
WEBS	1-18=-1765/1808, 2-18=-860/564, 2-15=-1418/1432, 3-15=-553/205, 5-15=-1321/1310, 5-12=-770/572, 6-12=-1216/1210, 6-9=-659/524, 7-9=-1515/1510

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 17-1-0, Corner(3) 17-1-0 to 32-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 15, 12, 20, 17, 10 except (jt=lb) 21=535, 8=968, 9=655.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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NOTES-

11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 32-2-12 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-72
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-62
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-67, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-69
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-41
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-80, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-160-to-2=-82
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-44
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-21=-20
   Horz: 1-21=13, 1-22=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-53
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-21=-3, 1-22=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-59
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-21=-20
   Horz: 1-21=10, 1-22=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-53
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-21=-2, 1-22=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-59
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-21=-20
   Horz: 1-3=7200, 3-44=7200, 44-45=7200, 4-45=7200, 4-6=7200, 6-7=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-59
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-63, 8-21=-20
   Horz: 1-3=-7200, 3-44=-7200, 44-45=-7200, 4-45=-7200, 4-6=-7200, 6-7=-7200
   Drag: 8-21=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-65
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 2-7=-64, 8-21=-20
Horz: 1-3=7200, 3-44=7200, 44-45=7200, 4-45=7200, 4-6=7200, 6-7=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-124-to-2=-66

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-70, 8-21=-20
Horz: 1-3=-7200, 3-44=-7200, 44-45=-7200, 4-45=-7200, 4-6=-7200, 6-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-130-to-2=-72

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-36, 8-21=-20
Horz: 1-3=7200, 3-44=7200, 44-45=7200, 4-45=7200, 4-6=7200, 6-7=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-2=-38

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-42, 8-21=-20
Horz: 1-3=-7200, 3-44=-7200, 44-45=-7200, 4-45=-7200, 4-6=-7200, 6-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-2=-44

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-3=7191, 3-44=7191, 44-45=7191, 4-45=7191, 4-6=7191, 6-7=7191, 7-8=3
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-50

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-3=-7209, 3-44=-7209, 44-45=-7209, 4-45=-7209, 4-6=-7209, 6-7=-7209, 7-8=3
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-56

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-3=7197, 3-44=7197, 44-45=7197, 4-45=7197, 4-6=7197, 6-7=7197, 7-8=-13
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-55

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-60, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-3=-7203, 3-44=-7203, 44-45=-7203, 4-45=-7203, 4-6=-7203, 6-7=-7203, 7-8=-13
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-62

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-48, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-3=7191, 3-44=7191, 44-45=7191, 4-45=7191, 4-6=7191, 6-7=7191, 7-8=2
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-2=-50

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-54, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-3=-7209, 3-44=-7209, 44-45=-7209, 4-45=-7209, 4-6=-7209, 6-7=-7209, 7-8=2
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-56

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T38	GABLE	1	1	I50510974 Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 2-7=-54, 8-21=-20

Horz: 1-21=-2, 1-22=-18, 1-3=7197, 3-44=7197, 44-45=7197, 4-45=7197, 4-6=7197, 6-7=7197, 7-8=-10

Drag: 8-21=-150

Trapezoidal Loads (plf)

Vert: 1=-114-to-2=-55

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 2-7=-60, 8-21=-20

Horz: 1-21=-2, 1-22=-18, 1-3=-7203, 3-44=-7203, 44-45=-7203, 4-45=-7203, 4-6=-7203, 6-7=-7203, 7-8=-10

Drag: 8-21=150

Trapezoidal Loads (plf)

Vert: 1=-120-to-2=-62

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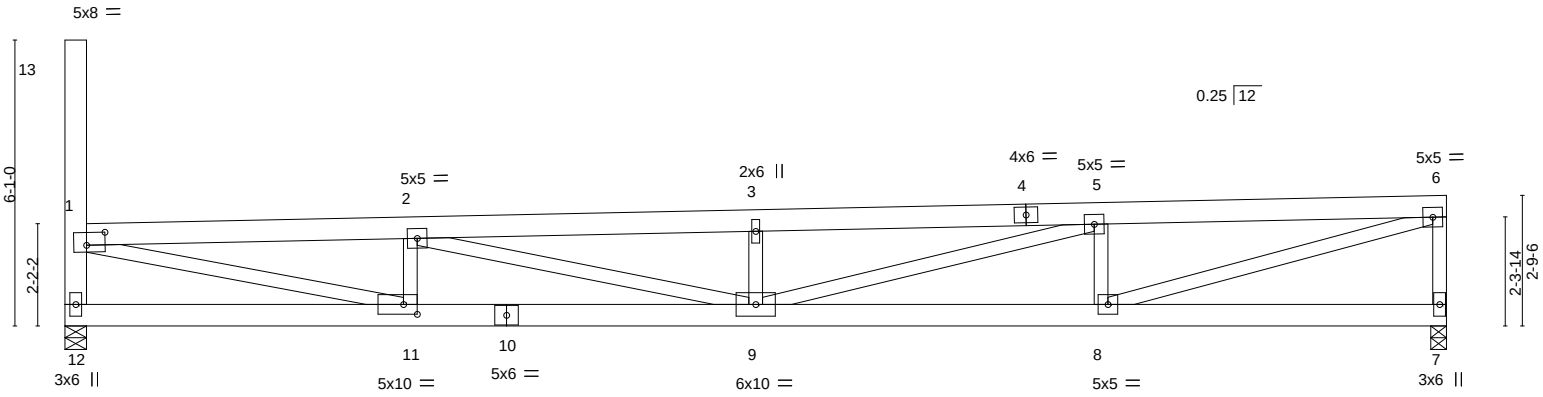
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T39	ROOF SPECIAL GIRDER	1	2	I50510975
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:19 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-9lYXPa8h3715SjamZ9SoGTHZRBoe75Se3EwFMIzfIGU

7-4-3 | 14-8-6 | 22-0-9 | 29-4-12
7-4-3 | 7-4-3 | 7-4-3 | 7-4-3

Scale = 1:49.0



7-4-3 | 14-8-6 | 22-0-9 | 29-4-12
7-4-3 | 7-4-3 | 7-4-3 | 7-4-3

Plate Offsets (X,Y)-- [1:0-4-12,0-3-4], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.32	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.49	9-11	>704	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 403 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-4-0
Max Horz 12=197(LC 12)
Max Grav 12=2308(LC 21), 7=1728(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-2159/326, 1-2=-6535/1010, 2-3=-7401/1102, 3-5=-7395/1108, 5-6=-4658/741, 6-7=-1635/316
BOT CHORD 11-12=-454/618, 9-11=-1061/6522, 8-9=-773/4651
WEBS 1-11=-866/6178, 2-11=-1399/302, 2-9=-348/995, 3-9=-866/218, 5-9=-389/2853, 5-8=-1325/341, 6-8=-775/4761

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 3-6=-70, 7-12=-20

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 3-6=-60, 7-12=-20

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-127, 3-6=-67, 7-12=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 3-6=-39, 7-12=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-159, 3-6=-79, 7-12=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 3-6=-42, 7-12=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 3-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 3-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 3-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-117, 3-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 3-6=-70, 7-12=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T40	Roof Special	4	1	I50510976
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:21 2022 Page 1
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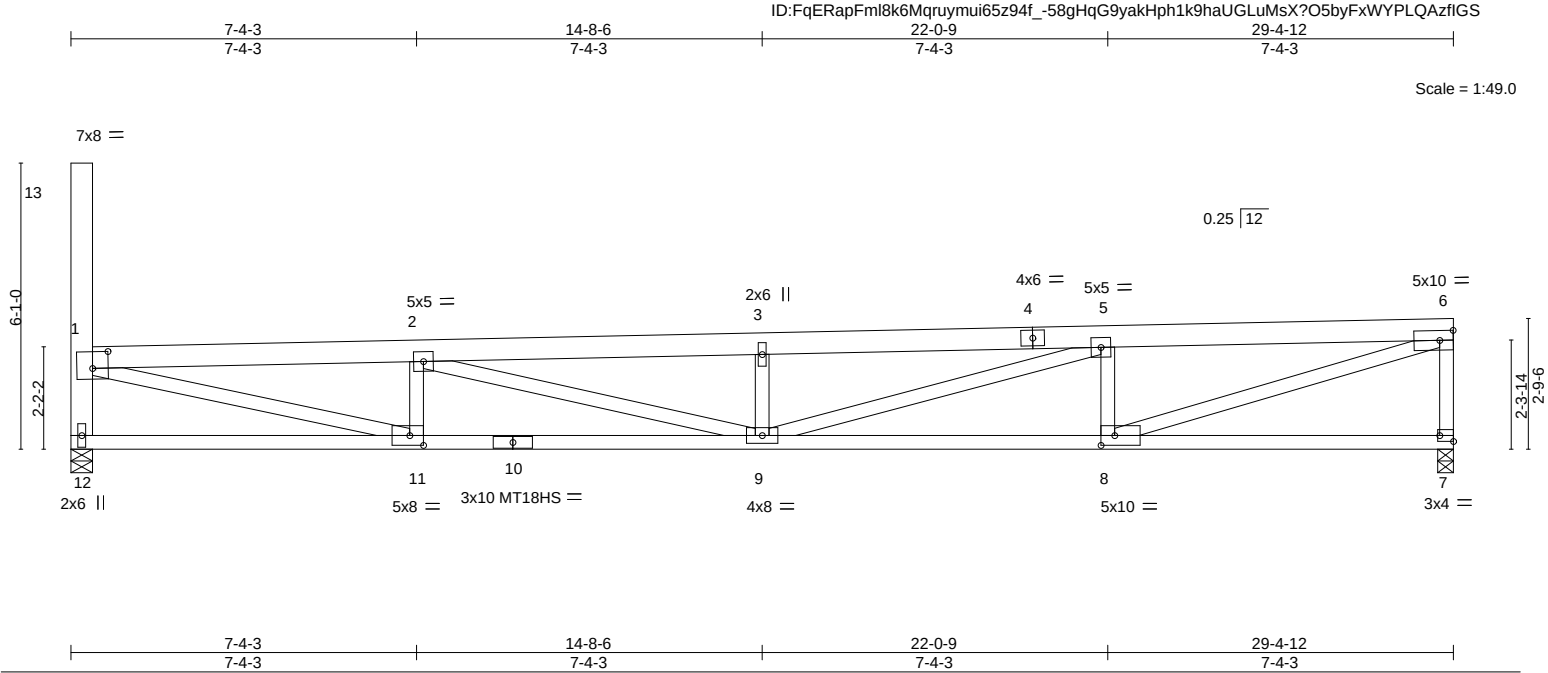

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4], [6:0-3-7,0-2-8], [7:Edge,0-1-8], [8:0-3-8,0-2-8], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.37	9-11	>949	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.73	9-11	>477	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 178 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1, 1-11: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-7 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-4-0
Max Horz 12=199(LC 12)
Max Grav 12=1700(LC 21), 7=1462(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1621/332, 1-2=-4397/988, 2-3=-5270/1072, 3-5=-5270/1078, 5-6=-3691/722, 6-7=-1389/323
BOT CHORD 11-12=-423/471, 9-11=-1040/4385, 8-9=-755/3684
WEBS 1-11=-853/4225, 2-11=-901/303, 2-9=-339/959, 3-9=-565/219, 5-9=-380/1651, 5-8=-1056/341, 6-8=-769/3792

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-2=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T41	Roof Special	1	1	I50510977
					Job Reference (optional)

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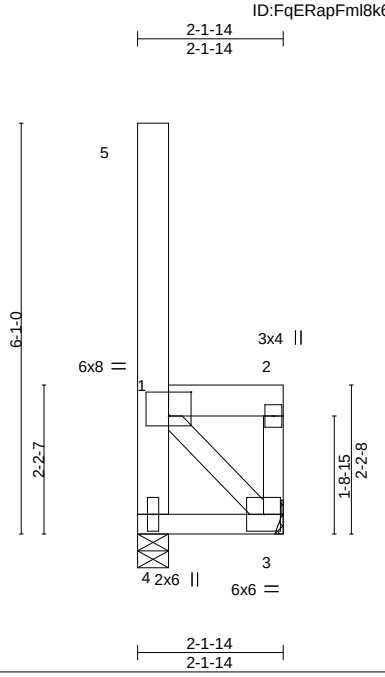

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-335(LC 11), 3=-335(LC 12)
Max Grav 4=373(LC 14), 3=373(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-437/996
BOT CHORD 3-4=-372/669
WEBS 1-3=-921/509

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=335, 3=335.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T42	Roof Special	1	1	I50510978
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:23 2022 Page 1
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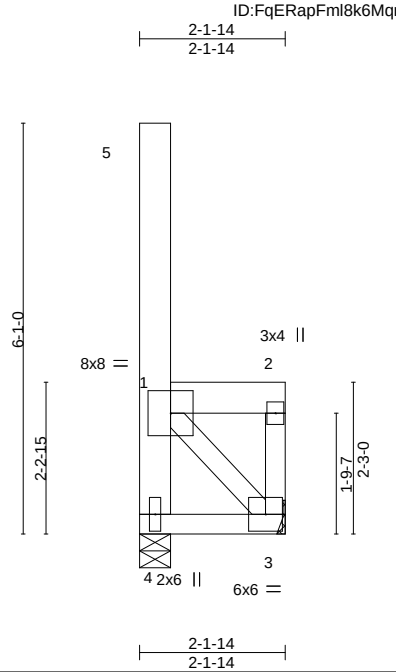

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=185(LC 12)
Max Uplift 4=-334(LC 11), 3=-334(LC 12)
Max Grav 4=372(LC 14), 3=372(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-433/994
BOT CHORD 3-4=-367/657
WEBS 1-3=-913/506

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=334, 3=334.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T43	Roof Special	1	1	I50510979
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:23 2022 Page 1
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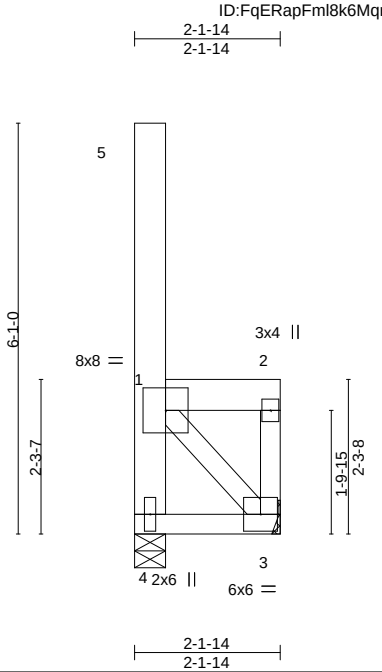

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-184(LC 11)
Max Uplift 4=-334(LC 11), 3=-334(LC 12)
Max Grav 4=371(LC 14), 3=371(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-433/991
BOT CHORD 3-4=-361/645
WEBS 1-3=-905/503

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=334, 3=334.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T44	Roof Special	1	1	I50510980
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:24 2022 Page 1
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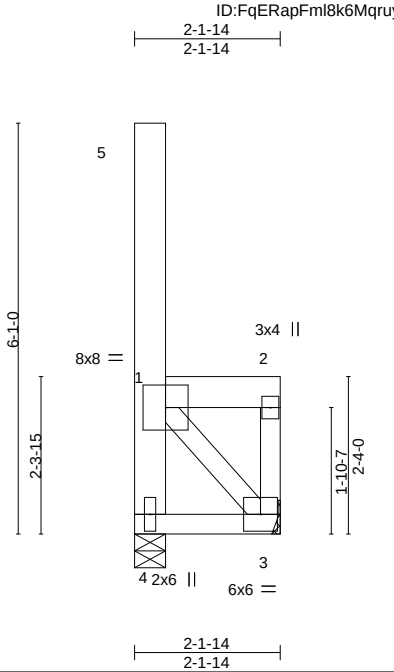

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-183(LC 11)
Max Uplift 4=-333(LC 11), 3=-333(LC 12)
Max Grav 4=371(LC 14), 3=371(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-433/989
BOT CHORD 3-4=-356/633
WEBS 1-3=-898/501

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=333, 3=333.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T45	Roof Special	1	1	I50510981
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:25 2022 Page 1
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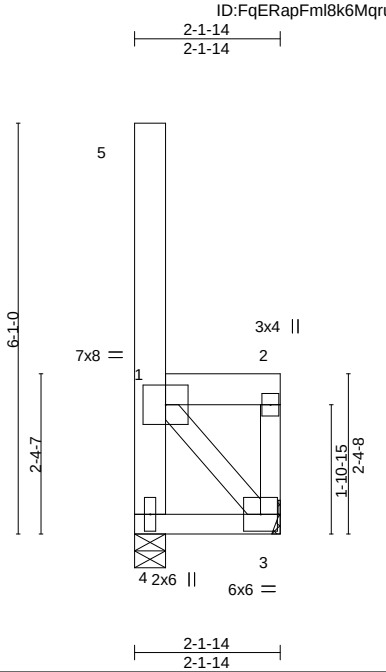

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-183(LC 11)
Max Uplift 4=-333(LC 11), 3=-333(LC 12)
Max Grav 4=370(LC 14), 3=370(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-433/987
BOT CHORD 3-4=-350/622
WEBS 1-3=-891/498

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=333, 3=333.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T46	Roof Special	1	1	I50510982
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:26 2022 Page 1
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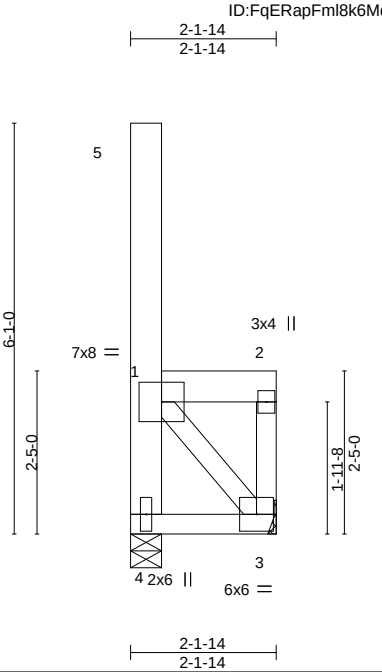

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 26 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-332(LC 11), 3=-332(LC 12)
Max Grav 4=370(LC 14), 3=370(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-433/984
BOT CHORD 3-4=-346/612
WEBS 1-3=-884/496

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=332, 3=332.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T47	Roof Special	1	1	I50510983
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:28 2022 Page 1
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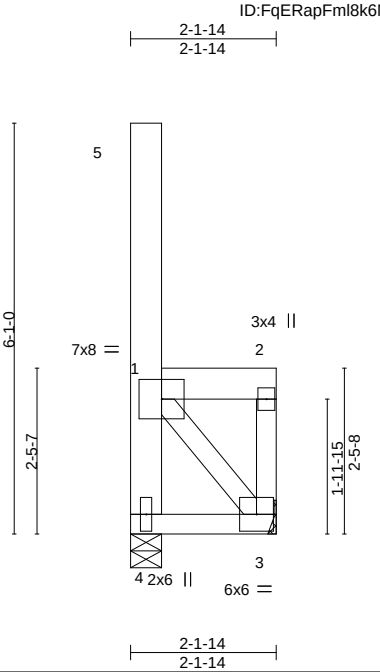

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-331(LC 11), 3=-331(LC 12)
Max Grav 4=369(LC 14), 3=369(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-432/982
BOT CHORD 3-4=-341/602
WEBS 1-3=-878/494

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=331, 3=331.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510983
PRYOR-R2A	T47	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T48	GABLE	1	1	I50510984
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:31 2022 Page 1
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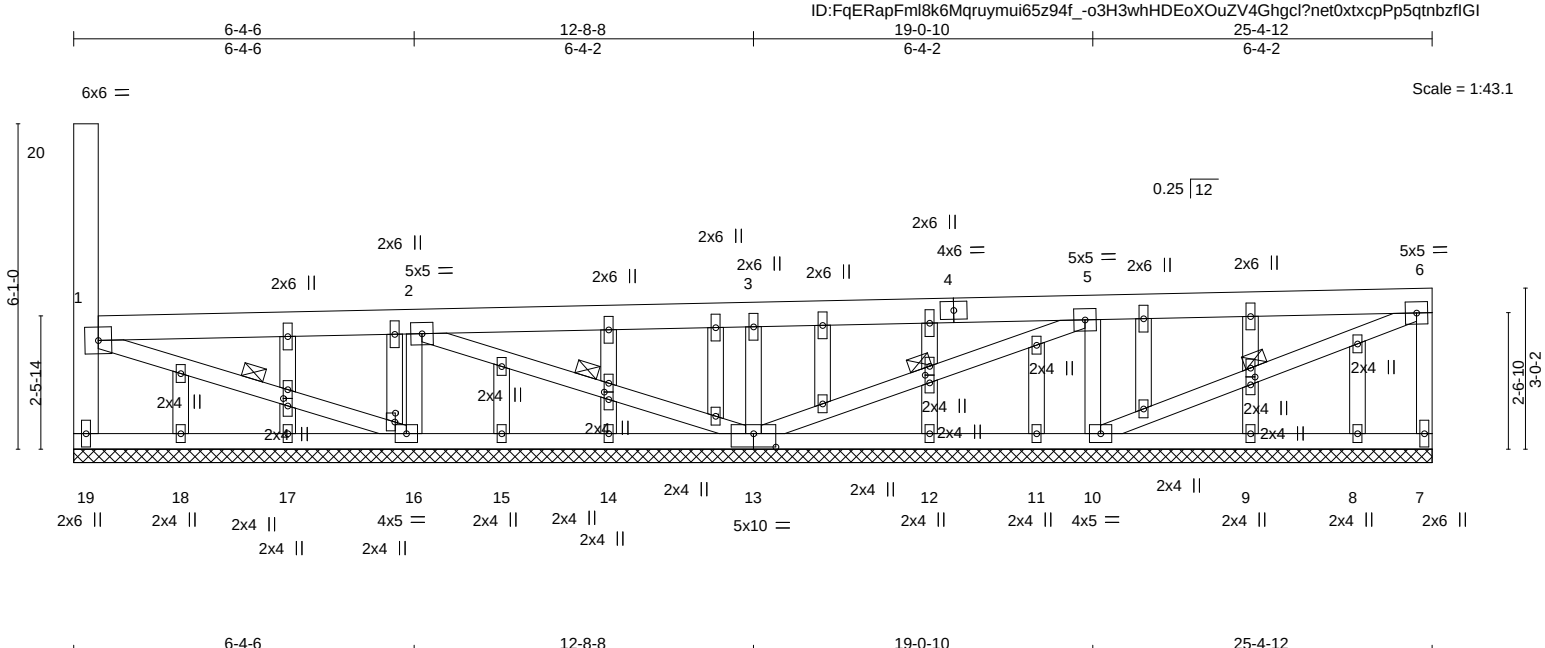

Plate Offsets (X,Y)-- [13:0-5-0,0-3-0], [16:0-2-0,0-0-2], [22:0-1-11,0-1-0], [26:0-1-11,0-1-0], [33:0-1-12,0-1-0], [38:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.01	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 189 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 19-20: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-6 oc bracing.
WEBS	1 Row at midpt 1-16, 2-13, 5-13, 6-10

REACTIONS. All bearings 25-4-12.
(lb) - Max Horz 19=192(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 18, 8 except 19=-599(LC 44), 7=-561(LC 53), 10=-144(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 15, 14, 12, 11, 9, 8 except 19=721(LC 71), 7=633(LC 64), 16=663(LC 21), 13=562(LC 21), 10=596(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-682/583, 1-2=-1457/1455, 2-3=-1341/1372, 3-5=-1249/1287, 5-6=-1318/1326, 6-7=-617/612
BOT CHORD	18-19=-682/583, 17-18=-1082/983, 16-17=-1555/1456, 15-16=-331/285, 14-15=-731/685, 13-14=-1272/1227, 12-13=-1240/1229, 11-12=-582/570, 9-10=-1250/1256, 8-9=-660/667, 7-8=-260/267
WEBS	1-16=-1586/1641, 2-16=-819/633, 2-13=-1313/1335, 3-13=-461/210, 5-13=-1294/1279, 5-10=-774/670, 6-10=-1416/1410

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 18, 8 except (jt=lb) 19=599, 7=561, 10=144.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

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Chesterfield, MO 63017

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-12 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-147-to-2=-73
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-2=-62
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-66, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-124-to-2=-68
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-97-to-2=-41
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-78, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-156-to-2=-81
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-19=-20
   Trapezoidal Loads (plf)
   Vert: 1=-119-to-2=-45
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-19=-20
   Horz: 1-19=13, 1-20=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
   Vert: 1=-109-to-2=-53
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-19=-20
   Horz: 1-19=-3, 1-20=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-59
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-19=-20
   Horz: 1-19=10, 1-20=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
   Vert: 1=-109-to-2=-53
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-19=-20
   Horz: 1-19=-2, 1-20=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-59
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-19=-20
   Horz: 1-3=7200, 3-6=7200
   Drag: 7-19=-150
   Trapezoidal Loads (plf)
   Vert: 1=-115-to-2=-59
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-63, 7-19=-20
   Horz: 1-3=-7200, 3-6=-7200
   Drag: 7-19=150
   Trapezoidal Loads (plf)
   Vert: 1=-121-to-2=-65
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-63, 7-19=-20
Horz: 1-3=7200, 3-6=7200
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-121-to-2=-65

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-69, 7-19=-20
Horz: 1-3=-7200, 3-6=-7200
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-71

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-36, 7-19=-20
Horz: 1-3=7200, 3-6=7200
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-94-to-2=-38

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-42, 7-19=-20
Horz: 1-3=-7200, 3-6=-7200
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-100-to-2=-44

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-19=-20
Horz: 1-19=13, 1-20=27, 1-3=7191, 3-6=7191, 6-7=3
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-106-to-2=-50

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-54, 7-19=-20
Horz: 1-19=13, 1-20=27, 1-3=-7209, 3-6=-7209, 6-7=3
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-112-to-2=-56

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-54, 7-19=-20
Horz: 1-19=-3, 1-20=-27, 1-3=7197, 3-6=7197, 6-7=-13
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-112-to-2=-56

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-60, 7-19=-20
Horz: 1-19=-3, 1-20=-27, 1-3=-7203, 3-6=-7203, 6-7=-13
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-62

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-48, 7-19=-20
Horz: 1-19=10, 1-20=-18, 1-3=7191, 3-6=7191, 6-7=2
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-106-to-2=-50

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-54, 7-19=-20
Horz: 1-19=10, 1-20=-18, 1-3=-7209, 3-6=-7209, 6-7=2
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-112-to-2=-56

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-54, 7-19=-20
Horz: 1-19=-2, 1-20=-18, 1-3=7197, 3-6=7197, 6-7=-10
Drag: 7-19=-150
Trapezoidal Loads (plf)
Vert: 1=-112-to-2=-56

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-60, 7-19=-20
Horz: 1-19=-2, 1-20=-18, 1-3=-7203, 3-6=-7203, 6-7=-10
Drag: 7-19=150
Trapezoidal Loads (plf)
Vert: 1=-118-to-2=-62

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T49	Roof Special	1	1	I50510985
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:32 2022 Page 1
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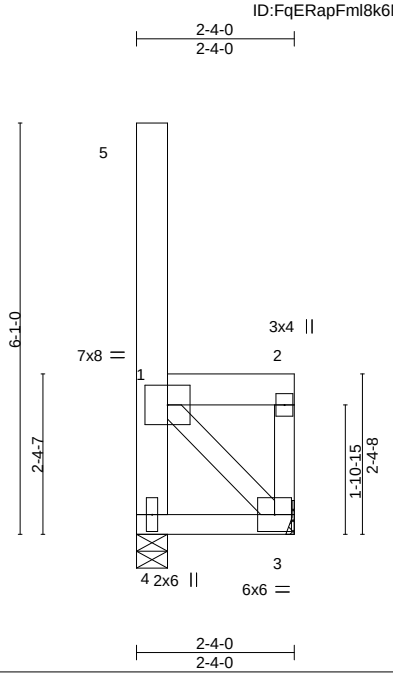

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-183(LC 11)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=358(LC 25), 3=358(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-389/908
BOT CHORD 3-4=-357/630
WEBS 1-3=-858/483

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=302, 3=302.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T50	Roof Special	1	1	I50510986
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:35 2022 Page 1
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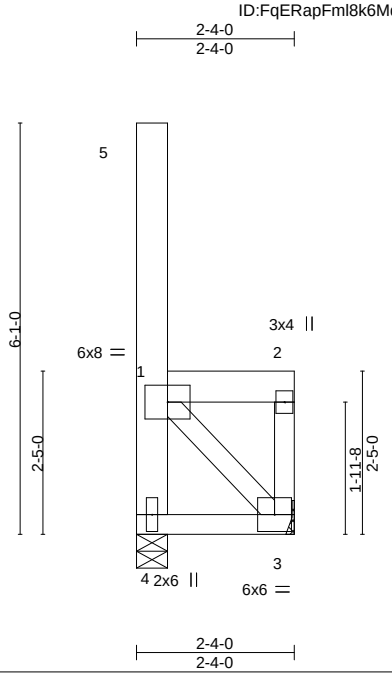

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-384/906
BOT CHORD 3-4=-352/620
WEBS 1-3=-851/480

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50510986
PRYOR-R2A	T50	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T51	Roof Special	1	1	I50510987
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:37 2022 Page 1
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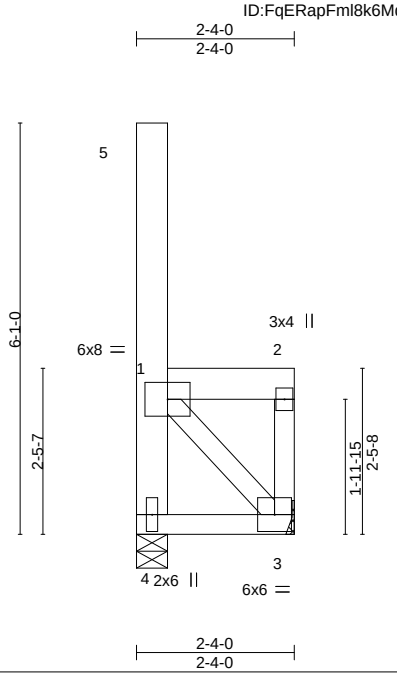

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-382/904
BOT CHORD 3-4=-347/609
WEBS 1-3=-844/478

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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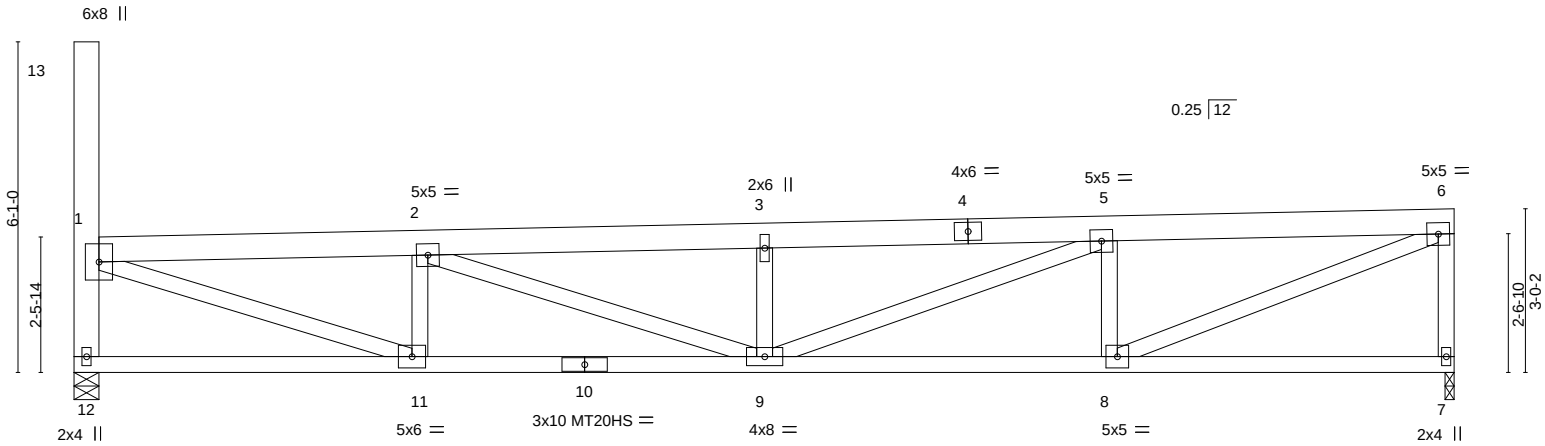
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T52	Roof Special	7	1	I50510988
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:38 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-5PCjO4NcayQOEeXQBfIGXTZqyrC24iDRQh1lXhzfIGB

6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:42.4



6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.17	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.35	9-11	>870	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-2-0
Max Horz 12=192(LC 12)
Max Grav 12=1456(LC 21), 7=1251(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1390/337, 1-2=-2832/780, 2-3=-3450/843, 3-5=-3450/849, 5-6=-2452/571, 6-7=-1189/325
BOT CHORD 11-12=-366/432, 9-11=-835/2823, 8-9=-608/2446
WEBS 1-11=-672/2808, 2-11=-796/300, 2-9=-298/693, 3-9=-484/210, 5-9=-306/1073, 5-8=-893/333, 6-8=-635/2604

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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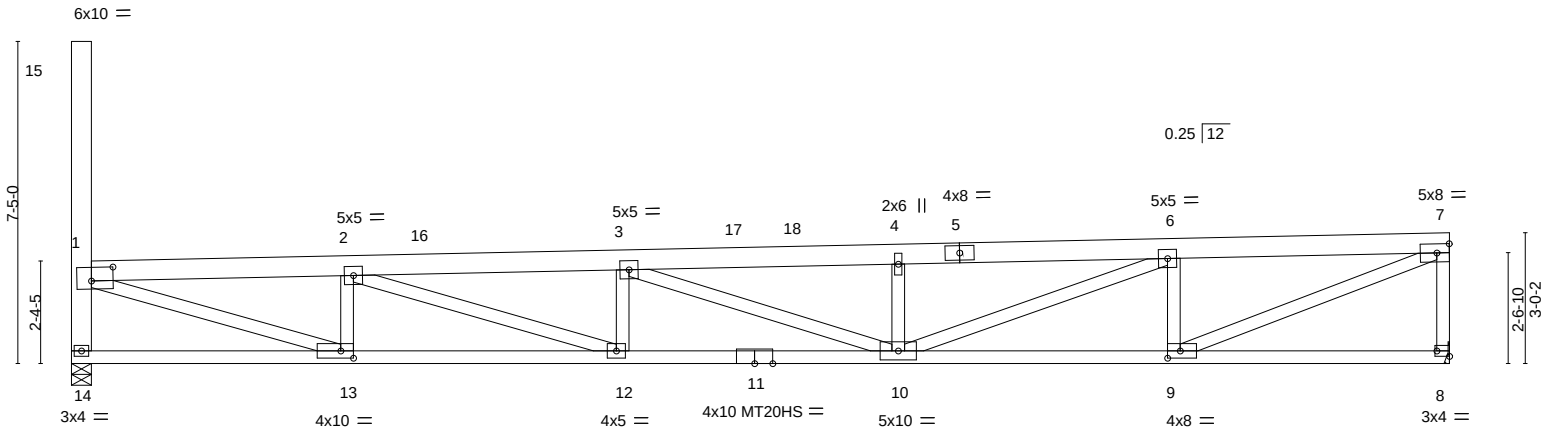
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF) I50510989
PRYOR-R2A	T54	Roof Special	6	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:39 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Zbm5cQNELGYFro6ckMpV4h6wkFdrp4obfLmI38zfIGA

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:53.1



6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [1:0-6-0,0-3-12], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.36	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.71	10-12	>526	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=246(LC 12)
Max Grav 14=1847(LC 21), 8=1587(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1773/335, 1-2=-4064/975, 2-3=-5525/1114, 3-4=-5177/973, 4-6=-5177/978, 6-7=-3274/592, 7-8=-1523/320
BOT CHORD 13-14=-527/642, 12-13=-1031/4054, 10-12=-1165/5518, 9-10=-627/3268
WEBS 1-13=-726/4027, 2-13=-1131/301, 2-12=-449/1542, 3-12=-358/218, 3-10=-367/155, 4-10=-502/177, 6-10=-420/2046, 6-9=-1239/341, 7-9=-657/3488

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-16=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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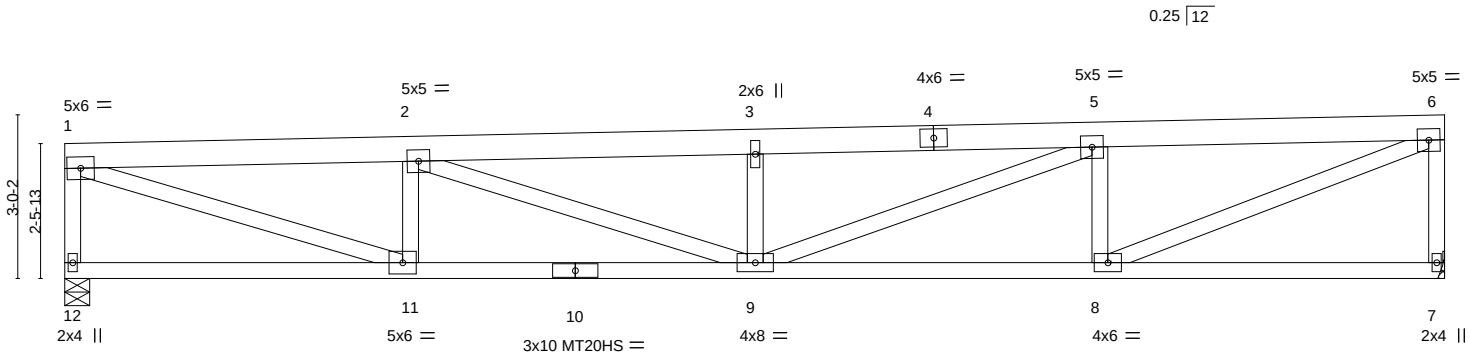
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T55	ROOF SPECIAL	14	1	I50510990
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:40 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-1nKTpmOs6Zg6TyhpI4KkcufBWfwLYcyku?WsbazfIG9

6-4-6	12-8-8	19-0-10	25-4-12
6-4-6	6-4-2	6-4-2	6-4-2

Scale = 1:42.4



6-4-6	12-8-8	19-0-10	25-4-12
6-4-6	6-4-2	6-4-2	6-4-2

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.16	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.34	9-11	>889	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-3-10 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=56(LC 12)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1171/298, 1-2=-2683/588, 2-3=-3369/732, 3-5=-3369/738, 5-6=-2413/546, 6-7=-1174/302
BOT CHORD	9-11=-643/2678, 8-9=-552/2407
WEBS	1-11=-608/2748, 2-11=-761/281, 2-9=-160/727, 3-9=-491/204, 5-9=-237/1028, 5-8=-876/310, 6-8=-575/2561

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

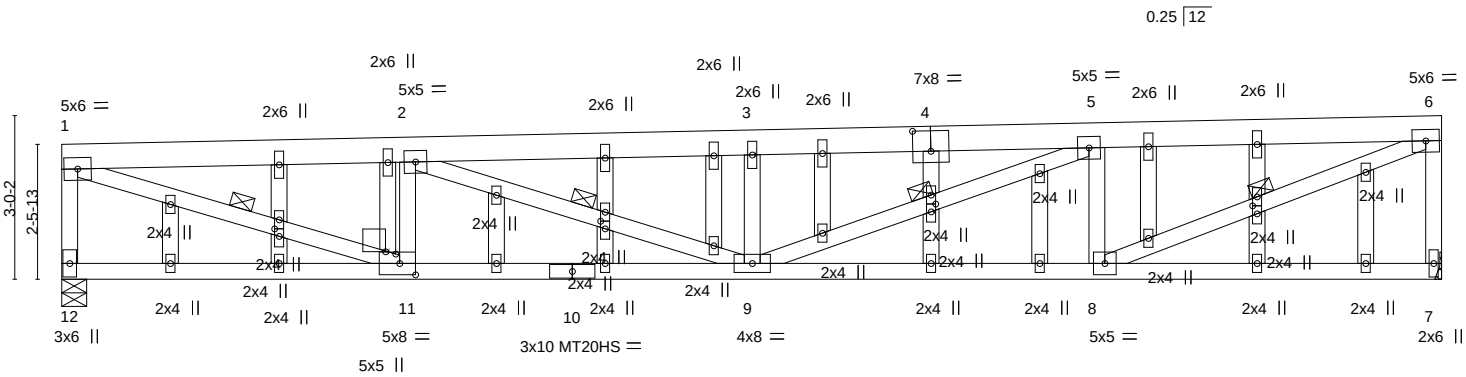
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T55S	GABLE	2	1	I50510991
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:42 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-_ARDERQ7eBwqiFrBQVNChJkXoSae0VD1LJ?ygSzfIG7

6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:42.4



6-4-6 | 12-8-8 | 19-0-10 | 25-4-12
6-4-6 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [11:0-0-8,0-2-4], [11:0-3-8,0-2-8], [15:0-1-11,0-1-0], [21:0-1-11,0-1-0], [29:0-1-12,0-1-0], [36:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.16	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.34	9-11	>889	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-1-6 oc bracing.
WEBS	1 Row at midpt 1-11, 2-9, 5-9, 6-8

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=56(LC 46)
Max Uplift 12=-478(LC 44), 7=-371(LC 53)
Max Grav 12=1478(LC 37), 7=1400(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1413/814, 1-2=-3446/2043, 2-3=-4113/2265, 3-5=-3692/1723, 5-6=-2894/1564, 6-7=-1339/723
BOT CHORD	11-12=-1320/1342, 9-11=-1699/3141, 8-9=-2012/3206, 7-8=-1254/1283
WEBS	1-11=-2096/3548, 2-11=-1018/761, 2-9=-1548/1834, 3-9=-491/206, 5-9=-1511/1902, 5-8=-1083/752, 6-8=-1705/3093

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=478, 7=371.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-12 for 200.0 plf.

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

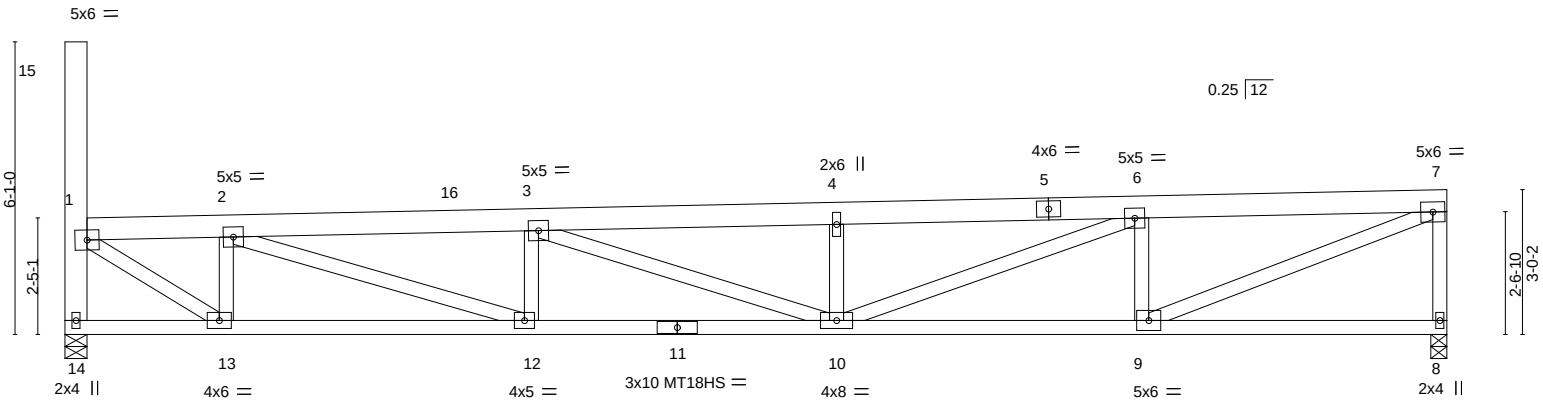
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T57	Monopitch	7	1	I50510992
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:43 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-SM?cSnQlPU2hKPQNzCuREXHgIsvVlyQAazkWCvzfIG6

3-4-4	9-8-6	16-0-8	22-4-10	28-8-12
3-4-4	6-4-2	6-4-2	6-4-2	6-4-2

Scale: 1/4"=1'



3-4-4	9-8-6	16-0-8	22-4-10	28-8-12
3-4-4	6-4-2	6-4-2	6-4-2	6-4-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.26	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.51	10-12	>668	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 180 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-4-0
Max Horz 14=195(LC 14)
Max Grav 14=1687(LC 21), 8=1432(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1660/310, 1-2=-2253/631, 2-3=-4284/934, 3-4=-4385/899, 4-6=-4385/904, 6-7=-2894/574, 7-8=-1370/319
BOT CHORD 13-14=-344/422, 12-13=-690/2248, 10-12=-986/4276, 9-10=-610/2888
WEBS 1-13=-440/2606, 2-13=-1325/299, 2-12=-536/2136, 3-12=-550/250, 4-10=-497/191, 6-10=-361/1603, 6-9=-1080/334, 7-9=-639/3080

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

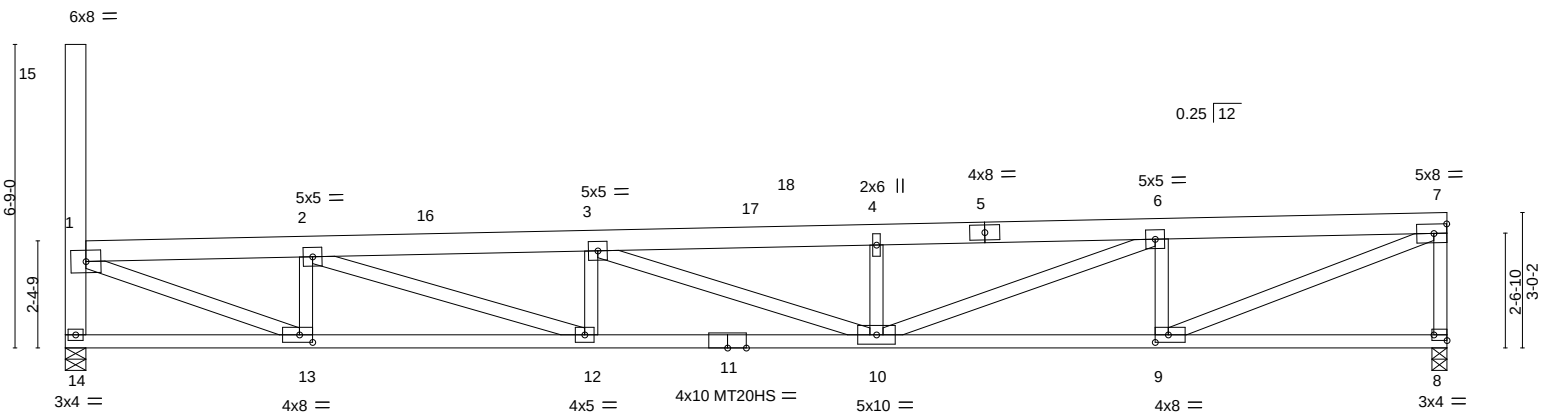
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T58	Monopitch	3	1	I50510993
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:45 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Ol7MsTS?x6IPajam5dwvJyM?5gZoDqAT1HDdHnzfIG4

5-4-4	11-8-6	18-0-8	24-4-10	30-8-12
5-4-4	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:51.2



5-4-4	11-8-6	18-0-8	24-4-10	30-8-12
5-4-4	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.34	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.67	10-12	>547	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 192 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-2 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-4-0
Max Horz 14=221(LC 12)
Max Grav 14=1793(LC 21), 8=1535(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1735/325, 1-2=-3460/845, 2-3=-5105/1045, 3-4=-4916/944, 4-6=-4916/949, 6-7=-3144/583, 7-8=-1472/319
BOT CHORD 13-14=-435/527, 12-13=-902/3451, 10-12=-1097/5098, 9-10=-619/3138
WEBS 1-13=-626/3534, 2-13=-1179/299, 2-12=-467/1735, 3-12=-421/226, 4-10=-505/183, 6-10=-399/1905, 6-9=-1185/338, 7-9=-648/3349

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 15-7-0, Corner(3) 15-7-0 to 30-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

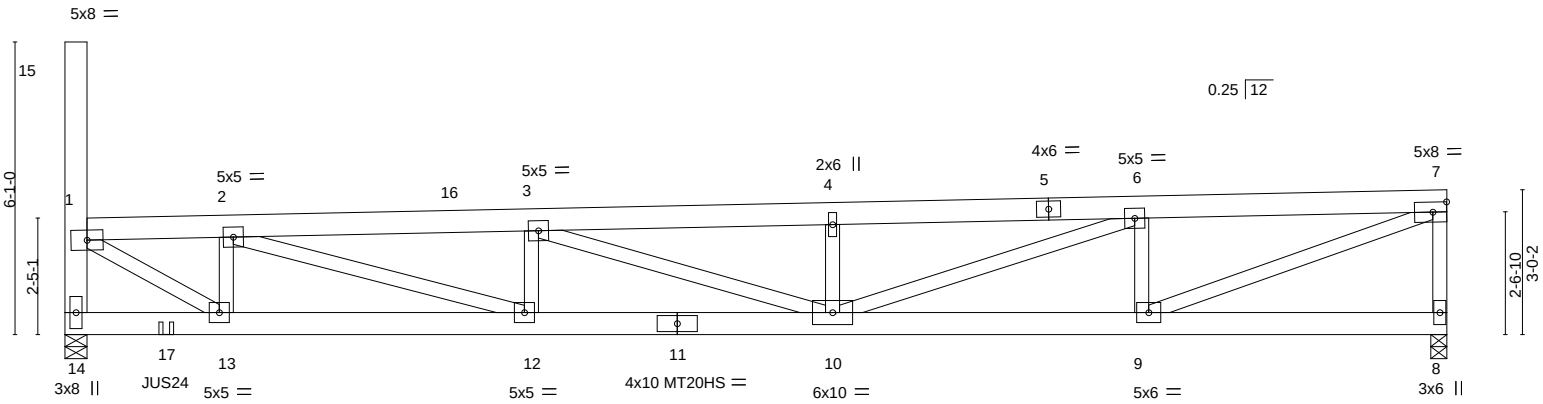
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T59	Roof Special Girder	1	1	I50510994
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:46 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-sxhk4pTdiPQGBt9yfKR8s9vBX3_ryIpdGxzApEzfIG3

3-4-4	9-8-6	15-11-8	22-4-10	28-8-12
3-4-4	6-4-2	6-3-2	6-5-2	6-4-2

Scale: 1/4"=1'



3-4-4	9-8-6	15-11-8	22-4-10	28-8-12
3-4-4	6-4-2	6-3-2	6-5-2	6-4-2

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.25	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.48	10-12	>708	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 202 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-4-0
Max Horz 14=193(LC 40)
Max Uplift 14=-255(LC 11)
Max Grav 14=1823(LC 21), 8=1442(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1717/478, 1-2=-2474/917, 2-3=-4495/1134, 3-4=-4567/1037, 4-6=-4567/1042, 6-7=-3005/642, 7-8=-1368/334
BOT CHORD 13-14=-400/477, 12-13=-974/2470, 10-12=-1186/4487, 9-10=-677/2999
WEBS 1-13=-739/2775, 2-13=-1289/345, 2-12=-639/2118, 3-12=-543/269, 3-10=-217/266, 4-10=-485/190, 6-10=-434/1669, 6-9=-1090/357, 7-9=-700/3175

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=255.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-1-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 17=173(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 17=173(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 17=173(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 17=173(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T59	Roof Special Girder	1	1	I50510994
					Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-315(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-315(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-315(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-315(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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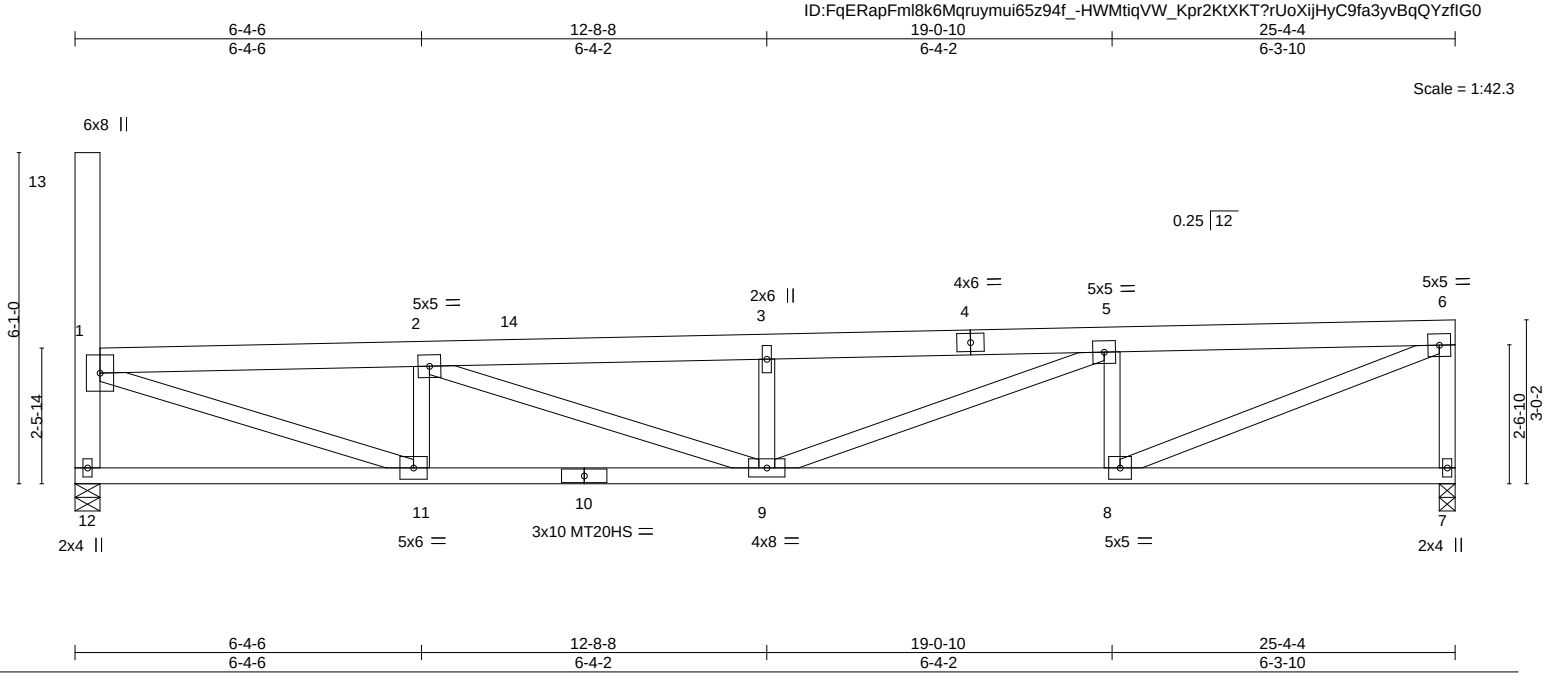
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T60	Roof Special	6	1	I50510995
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:49 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HWMtiqVW_Kpr2KtXKT?rUoXijHyC9fa3yvBqQYzfIG0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.18	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.35	9-11	>853	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Horz 12=192(LC 12)
Max Grav 12=1507(LC 21), 7=1261(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1441/337, 1-2=-2931/779, 2-3=-3502/842, 3-5=-3502/848, 5-6=-2465/568, 6-7=-1200/325
BOT CHORD 11-12=-367/432, 9-11=-835/2921, 8-9=-605/2459
WEBS 1-11=-672/2903, 2-11=-828/300, 2-9=-297/688, 3-9=-482/211, 5-9=-308/1115, 5-8=-906/333, 6-8=-633/2621

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-14=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-60, 7-12=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-14=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-14=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-14=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-14=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-14=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-14=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-14=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-14=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-14=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-14=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-14=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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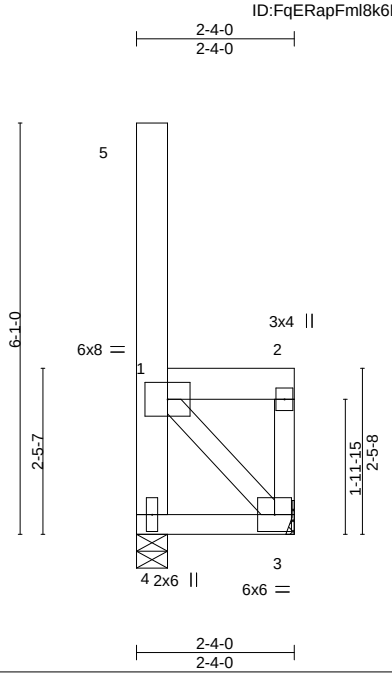
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T61	Flat	1	1	I50510996
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:49 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HWMtiqVW_Kpr2KtXKT?rUoXfbH7z9pp3yvBqQYzfIG0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-182(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-382/904
BOT CHORD 3-4=-347/609
WEBS 1-3=-844/478

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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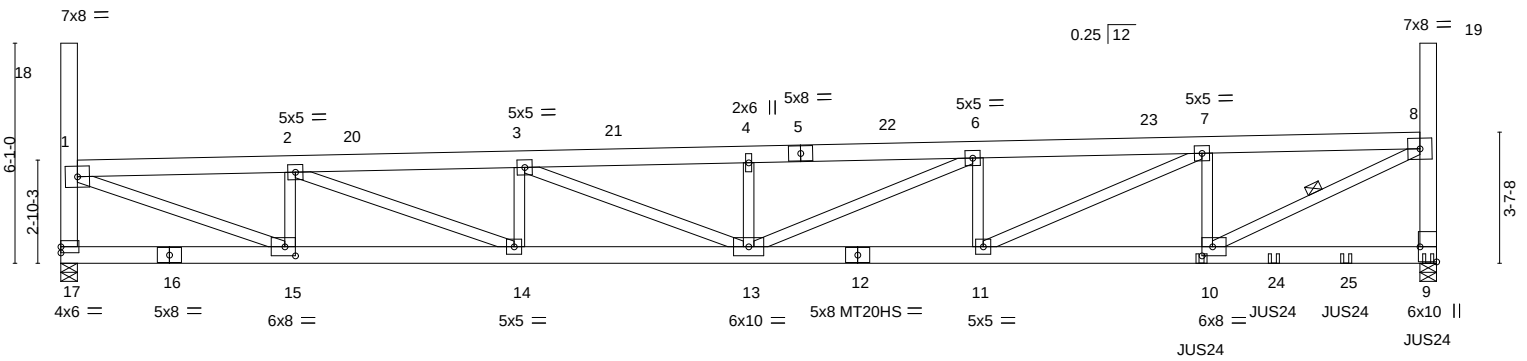
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T62	Roof Special Girder	1	1	I50510997
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:51 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-DvUd7WXmWy3YIe1wRu1JZDc?X4dDcZdMQDgxURzfIG_

6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Scale: 3/16"=1'



6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Plate Offsets (X,Y)-- [9:Edge,0-5-8], [10:0-3-8,0-3-0], [15:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.50	13	>908	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.92	13	>491	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 276 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 17-18,9-19: 2x6 SP No.1, 1-15,8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-2-2 oc bracing.
WEBS	1 Row at midpt 8-10

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=245(LC 12)
Max Uplift 17=-45(LC 11), 9=-988(LC 15)
Max Grav 17=2251(LC 21), 9=2774(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-2157/398, 1-2=-4376/871, 2-3=-6524/1264, 3-4=-7062/1448, 4-6=-7062/1453, 6-7=-6149/1553, 7-8=-4087/1593, 8-9=-2378/813
BOT CHORD	15-17=-451/420, 14-15=-1069/4366, 13-14=-1457/6516, 11-13=-1603/6143, 10-11=-1501/4078
WEBS	1-15=-834/4475, 2-15=-1539/384, 2-14=-616/2314, 3-14=-725/307, 3-13=-364/631, 4-13=-516/160, 6-13=-408/1003, 6-11=-892/305, 7-11=-673/2291, 7-10=-1597/460, 8-10=-1623/4413

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 9=988.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-3-3 oc max. starting at 31-6-6 from the left end to 37-9-9 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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March 2,2022

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-70, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(F) 10=-146(F) 24=-146(F) 25=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-20=-70, 23=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-60, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(F) 10=-117(F) 24=-117(F) 25=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-20=-60, 23=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(F) 10=-117(F) 24=-117(F) 25=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-128-to-20=-68, 23=-68-to-8=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-39, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(F) 10=-117(F) 24=-117(F) 25=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-20=-39, 23=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-81, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(F) 10=-146(F) 24=-146(F) 25=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-161-to-20=-81, 23=-81-to-8=-161
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 20-23=-42, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(F) 10=-146(F) 24=-146(F) 25=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-20=-42, 23=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 20-23=-51, 9-17=-20
   Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
   Concentrated Loads (lb)
   Vert: 9=149(F) 10=159(F) 24=158(F) 25=157(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-20=-51, 23=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 20-23=-57, 9-17=-20
   Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
   Concentrated Loads (lb)
   Vert: 9=149(F) 10=159(F) 24=158(F) 25=157(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-20=-57, 23=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 20-23=-51, 9-17=-20
   Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
   Concentrated Loads (lb)
   Vert: 9=149(F) 10=159(F) 24=158(F) 25=157(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-20=-51, 23=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 20-23=-57, 9-17=-20
   Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
   Concentrated Loads (lb)
   Vert: 9=149(F) 10=159(F) 24=158(F) 25=157(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-20=-57, 23=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 20-23=-70, 9-17=-20
Concentrated Loads (lb)
Vert: 9=-154(F) 10=-146(F) 24=-146(F) 25=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-20=-70, 23=-70-to-8=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 20-23=-51, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
Concentrated Loads (lb)
Vert: 9=-305(F) 10=-300(F) 24=-299(F) 25=-299(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-20=-51, 23=-51-to-8=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 20-23=-57, 9-17=-20
Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
Concentrated Loads (lb)
Vert: 9=-305(F) 10=-300(F) 24=-299(F) 25=-299(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-20=-57, 23=-57-to-8=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 20-23=-51, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
Concentrated Loads (lb)
Vert: 9=-305(F) 10=-300(F) 24=-299(F) 25=-299(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-20=-51, 23=-51-to-8=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 20-23=-57, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
Concentrated Loads (lb)
Vert: 9=-305(F) 10=-300(F) 24=-299(F) 25=-299(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-20=-57, 23=-57-to-8=-117

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Chesterfield, MO 63017

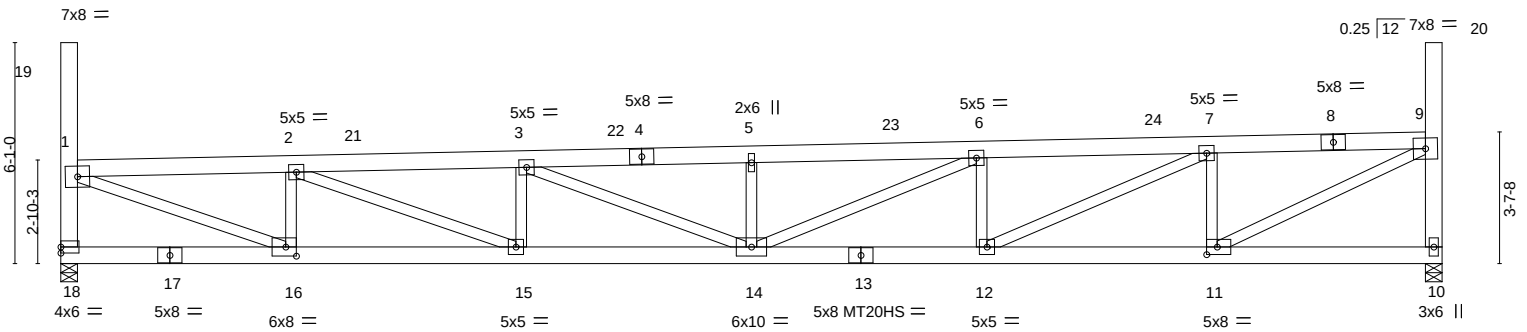
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T63	Roof Special	3	1	I50510998
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:53 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-9IcOYCY02ZJGXyBIZI3neehLYuK74Q?ftW92YKzfIFy

6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Scale: 3/16"=1'



6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8], [16:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.46	14	>971	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.88	14-15	>512	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 276 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
18-19,10-20: 2x6 SP No.1, 1-16: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-13 oc bracing.

REACTIONS. (size) 18=0-5-8, 10=0-5-8
Max Horz 18=245(LC 12)
Max Grav 18=2202(LC 21), 10=2202(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-2109/301, 1-2=-4258/635, 2-3=-6295/808, 3-5=-6729/786, 5-6=-6729/791, 6-7=-5737/727, 7-9=-3542/521, 9-10=-2118/303
BOT CHORD 16-18=-447/415, 15-16=-833/4248, 14-15=-1001/6288, 12-14=-778/5731, 11-12=-430/3534
WEBS 1-16=-586/4351, 2-16=-1494/293, 2-15=-378/2195, 3-15=-679/215, 3-14=-141/471, 5-14=-518/156, 6-14=-216/1091, 6-12=-923/243, 7-12=-386/2438, 7-11=-1665/312, 9-11=-502/3836

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-70, 10-18=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-21=-70, 24=-70-to-9=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-60, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-21=-60, 24=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-68, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-128-to-21=-68, 24=-68-to-9=-128

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-39, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-21=-39, 24=-39-to-9=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-81, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-161-to-21=-81, 24=-81-to-9=-161

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-42, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-21=-42, 24=-42-to-9=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 21-24=-51, 10-18=-20
Horz: 1-18=13, 1-19=27, 1-9=-9, 9-10=3, 9-20=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-21=-51, 24=-51-to-9=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 21-24=-57, 10-18=-20
Horz: 1-18=-3, 1-19=-18, 1-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 1=-117-to-21=-57, 24=-57-to-9=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 21-24=-51, 10-18=-20
Horz: 1-18=10, 1-19=-18, 1-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 1=-111-to-21=-51, 24=-51-to-9=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 21-24=-57, 10-18=-20
Horz: 1-18=-2, 1-19=-18, 1-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 1=-117-to-21=-57, 24=-57-to-9=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 21-24=-70, 10-18=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-21=-70, 24=-70-to-9=-150

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T64	ROOF SPECIAL GIRDER	1	2	I50510999
					Job Reference (optional)

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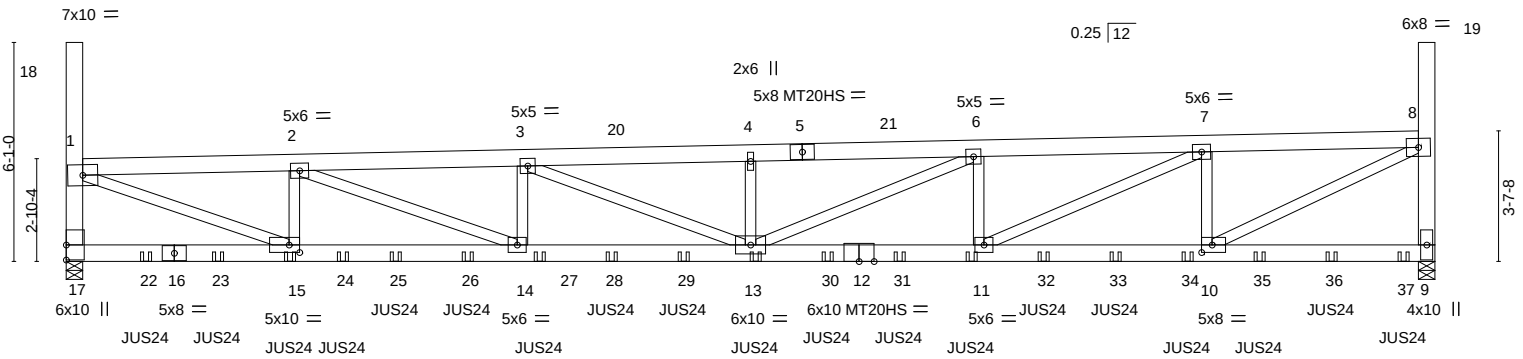
ID:FqERapFml8k6Mqruymui65z94f_-23ruOabX6opi0ZU4o88joUs_hVmB0EwEo87Fh5zfIFu

6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Scale: 3/16"=1'



6-4-1	12-8-2	19-0-3	25-4-3	31-8-4	38-0-5
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-4-1

Plate Offsets (X,Y)-- [10:0-3-8,0-2-8], [15:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.78	13-14	>575	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-1.05	13-14	>429	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 552 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
16-17: 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
17-18,9-19: 2x6 SP No.1, 1-15,8-10: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=245(LC 12)
Max Uplift 17=-2476(LC 11), 9=-2714(LC 15)
Max Grav 17=5501(LC 54), 9=5507(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-5103/2522, 1-2=-11647/6086, 2-3=-17658/9346, 3-4=-18746/10042, 4-6=-18743/10047, 6-7=-15901/8623, 7-8=-9515/5246, 8-9=-4944/2633
BOT CHORD 15-17=-638/621, 14-15=-6282/11660, 13-14=-9538/17594, 11-13=-8673/15780, 10-11=-5155/9394, 9-10=-144/258
WEBS 1-15=-6232/12170, 2-15=-3168/1531, 2-14=-3701/6470, 3-14=-1332/538, 3-13=-919/1178, 4-13=-1000/171, 6-13=-1713/3160, 6-11=-2197/848, 7-11=-3903/7112, 7-10=-3689/1733, 8-10=-5690/10311

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 22-9-9, Corner(3) 22-9-9 to 37-9-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=2476, 9=2714.

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Continued on page 2

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NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-10 from the left end to 37-1-14 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-150, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-316(B) 13=-146(B) 11=-146(B) 22=-146(B) 23=-146(B) 24=-316(B) 25=-316(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B) 37=-150(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-120, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-257(B) 13=-117(B) 11=-117(B) 22=-117(B) 23=-117(B) 24=-257(B) 25=-257(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B) 37=-121(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-128, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-257(B) 13=-117(B) 11=-117(B) 22=-117(B) 23=-117(B) 24=-257(B) 25=-257(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B) 37=-121(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-99, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-257(B) 13=-117(B) 11=-117(B) 22=-117(B) 23=-117(B) 24=-257(B) 25=-257(B) 26=-117(B) 27=-117(B) 28=-117(B) 29=-117(B) 30=-117(B) 31=-117(B) 32=-117(B) 33=-117(B) 34=-117(B) 35=-117(B) 36=-117(B) 37=-121(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-161, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-316(B) 13=-146(B) 11=-146(B) 22=-146(B) 23=-146(B) 24=-316(B) 25=-316(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B) 37=-150(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-122, 9-17=-20
   Concentrated Loads (lb)
   Vert: 15=-316(B) 13=-146(B) 11=-146(B) 22=-146(B) 23=-146(B) 24=-316(B) 25=-316(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B) 37=-150(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-111, 9-17=-20
   Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
   Concentrated Loads (lb)
   Vert: 15=140(B) 13=163(B) 11=161(B) 22=168(B) 23=167(B) 24=140(B) 25=140(B) 26=165(B) 27=165(B) 28=164(B) 29=164(B) 30=162(B) 31=162(B) 32=160(B) 33=159(B) 34=159(B) 35=158(B) 36=157(B) 37=153(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-117, 9-17=-20
   Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
   Concentrated Loads (lb)
   Vert: 15=140(B) 13=163(B) 11=161(B) 22=168(B) 23=167(B) 24=140(B) 25=140(B) 26=165(B) 27=165(B) 28=164(B) 29=164(B) 30=162(B) 31=162(B) 32=160(B) 33=159(B) 34=159(B) 35=158(B) 36=157(B) 37=153(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-111, 9-17=-20
   Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
   Concentrated Loads (lb)
   Vert: 15=140(B) 13=163(B) 11=161(B) 22=168(B) 23=167(B) 24=140(B) 25=140(B) 26=165(B) 27=165(B) 28=164(B) 29=164(B) 30=162(B) 31=162(B) 32=160(B) 33=159(B) 34=159(B) 35=158(B) 36=157(B) 37=153(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-117, 9-17=-20
   Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
   Concentrated Loads (lb)
   Vert: 15=140(B) 13=163(B) 11=161(B) 22=168(B) 23=167(B) 24=140(B) 25=140(B) 26=165(B) 27=165(B) 28=164(B) 29=164(B) 30=162(B) 31=162(B) 32=160(B) 33=159(B) 34=159(B) 35=158(B) 36=157(B) 37=153(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-150, 9-17=-20

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 15=-316(B) 13=-146(B) 11=-146(B) 22=-146(B) 23=-146(B) 24=-316(B) 25=-316(B) 26=-146(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 32=-146(B) 33=-146(B) 34=-146(B) 35=-146(B) 36=-146(B) 37=-150(B)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-111, 9-17=-20
Horz: 1-17=13, 1-18=27, 1-8=-9, 8-9=3, 8-19=18
Concentrated Loads (lb)
Vert: 15=-333(B) 13=-304(B) 11=-302(B) 22=-309(B) 23=-309(B) 24=-333(B) 25=-333(B) 26=-307(B) 27=-306(B) 28=-306(B) 29=-305(B) 30=-304(B) 31=-303(B) 32=-302(B) 33=-301(B) 34=-300(B) 35=-299(B) 36=-299(B) 37=-302(B)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-117, 9-17=-20
Horz: 1-17=-3, 1-18=-18, 1-8=-3, 8-9=-13, 8-19=-27
Concentrated Loads (lb)
Vert: 15=-333(B) 13=-304(B) 11=-302(B) 22=-309(B) 23=-309(B) 24=-333(B) 25=-333(B) 26=-307(B) 27=-306(B) 28=-306(B) 29=-305(B) 30=-304(B) 31=-303(B) 32=-302(B) 33=-301(B) 34=-300(B) 35=-299(B) 36=-299(B) 37=-302(B)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-111, 9-17=-20
Horz: 1-17=10, 1-18=-18, 1-8=-9, 8-9=2, 8-19=18
Concentrated Loads (lb)
Vert: 15=-333(B) 13=-304(B) 11=-302(B) 22=-309(B) 23=-309(B) 24=-333(B) 25=-333(B) 26=-307(B) 27=-306(B) 28=-306(B) 29=-305(B) 30=-304(B) 31=-303(B) 32=-302(B) 33=-301(B) 34=-300(B) 35=-299(B) 36=-299(B) 37=-302(B)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-117, 9-17=-20
Horz: 1-17=-2, 1-18=-18, 1-8=-3, 8-9=-10, 8-19=18
Concentrated Loads (lb)
Vert: 15=-333(B) 13=-304(B) 11=-302(B) 22=-309(B) 23=-309(B) 24=-333(B) 25=-333(B) 26=-307(B) 27=-306(B) 28=-306(B) 29=-305(B) 30=-304(B) 31=-303(B) 32=-302(B) 33=-301(B) 34=-300(B) 35=-299(B) 36=-299(B) 37=-302(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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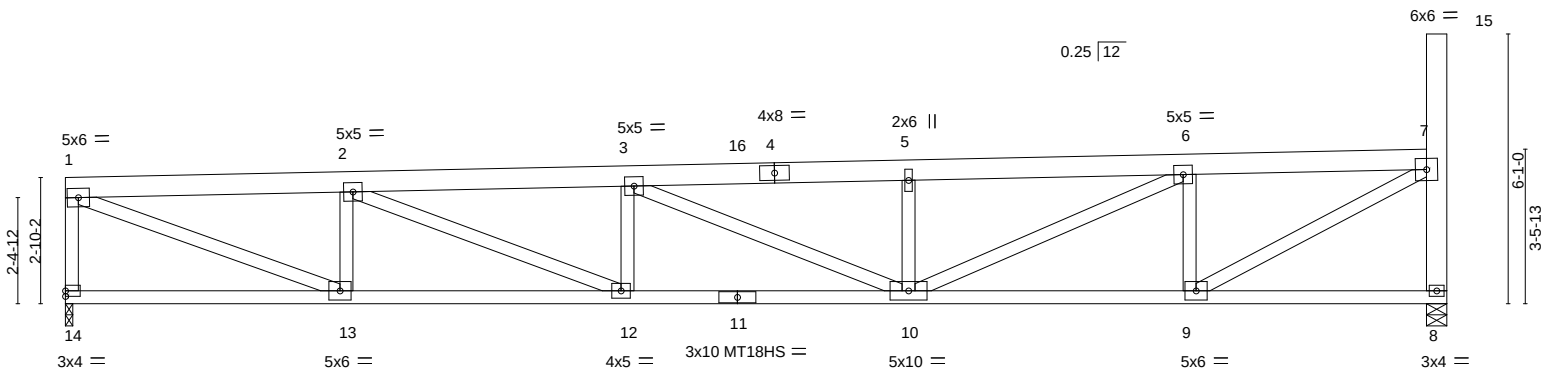
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T65	Roof Special	8	1	I50511000 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:05:58 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-WFPHbvc9t5xZdj3GMsfyLhOFRv1CljeO1otpDXzfIFt

6-4-1 | 12-8-2 | 19-0-3 | 25-4-4 | 31-1-14
6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 5-9-10

Scale = 1:52.0



6-4-1 | 12-8-2 | 19-0-3 | 25-4-4 | 31-1-14
6-4-1 | 6-4-1 | 6-4-1 | 6-4-1 | 5-9-10

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.25	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.50	10-12	>741	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 196 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.

REACTIONS. (size) 14=0-2-0, 8=0-5-8
Max Horz 14=167(LC 14)
Max Grav 14=1546(LC 21), 8=1748(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1483/307, 1-2=-3046/541, 2-3=-4306/790, 3-5=-4085/788, 5-6=-4085/794, 6-7=-2554/570, 7-8=-1691/317
BOT CHORD 13-14=-256/161, 12-13=-687/3041, 10-12=-824/4300, 9-10=-399/2547
WEBS 1-13=-589/3210, 2-13=-1066/303, 2-12=-264/1361, 3-12=-392/175, 5-10=-500/188, 6-10=-360/1694, 6-9=-1260/314, 7-9=-487/2821

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-11-2, Corner(3) 15-11-2 to 30-11-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-73-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-62-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-69-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-41-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-82-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-45-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-53-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-59-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-53-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-59-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-73-to-7=-150

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T66	ROOF SPECIAL GIRDER	1	2	I50511001
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:03 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-sDDAedgIheZrkUyD8PF72l681wqMQ2e7A4aaukzfIFo

6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

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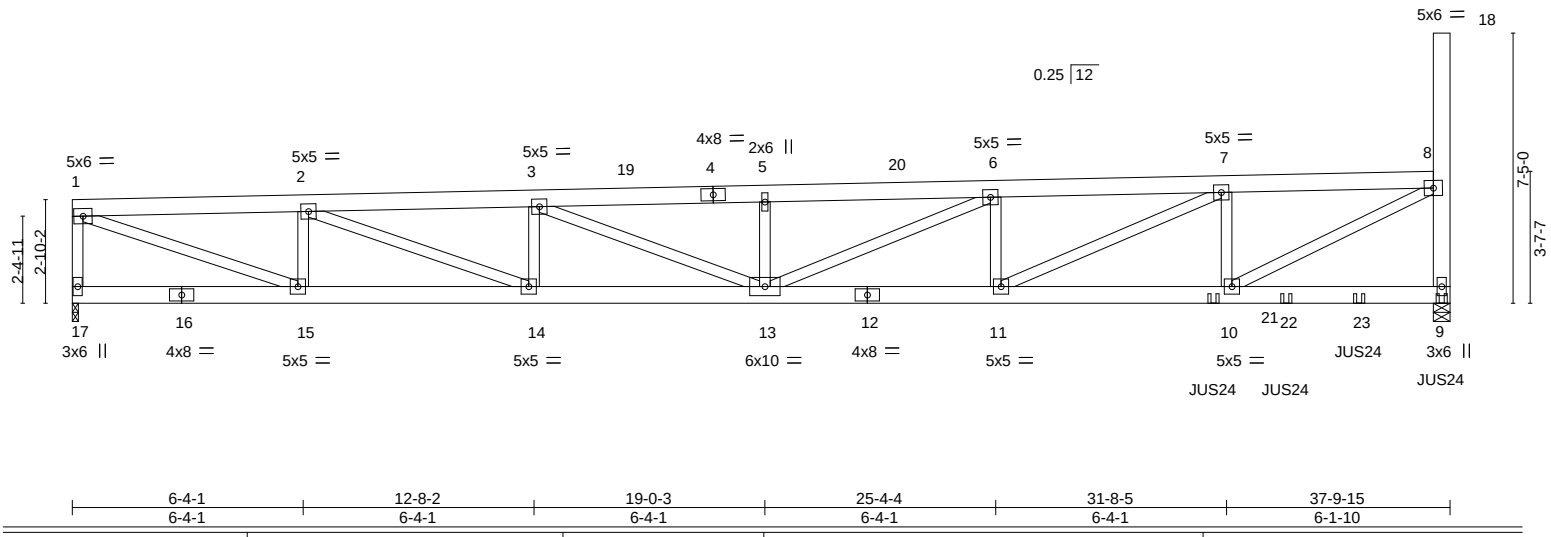

6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.25	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.46	13	>979	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 538 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-18: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-2-0, 9=0-5-8
Max Horz 17=212(LC 12)
Max Uplift 17=-46(LC 11), 9=-972(LC 15)
Max Grav 17=1972(LC 21), 9=2872(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1889/385, 1-2=-4154/783, 2-3=-6394/1320, 3-5=-6986/1624, 5-6=-6986/1629, 6-7=-6131/1725, 7-8=-4113/1703, 8-9=-2501/833
BOT CHORD 15-17=-309/203, 14-15=-952/4149, 13-14=-1357/6387, 11-13=-1530/6125, 10-11=-1488/4103
WEBS 1-15=-835/4353, 2-15=-1462/389, 2-14=-572/2408, 3-14=-761/286, 3-13=-325/669, 5-13=-515/160, 6-13=-411/987, 6-11=-858/312, 7-11=-639/2243, 7-10=-1679/431, 8-10=-1593/4455

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-3, Corner(3) 22-7-3 to 37-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 9=972.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

NOTES-

12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-3-3 oc max. starting at 31-4-0 from the left end to 37-7-3 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 7-8=-150, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(B) 21=-146(B) 22=-146(B) 23=-146(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-8=-120, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(B) 21=-117(B) 22=-117(B) 23=-117(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 7-8=-128, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(B) 21=-117(B) 22=-117(B) 23=-117(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 7-8=-99, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-124(B) 21=-117(B) 22=-117(B) 23=-117(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-81, 7-8=-161, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(B) 21=-146(B) 22=-146(B) 23=-146(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 7-8=-122, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(B) 21=-146(B) 22=-146(B) 23=-146(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 9=149(B) 21=159(B) 22=158(B) 23=157(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Concentrated Loads (lb)
   Vert: 9=149(B) 21=159(B) 22=158(B) 23=157(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
   Concentrated Loads (lb)
   Vert: 9=149(B) 21=159(B) 22=158(B) 23=157(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
   Concentrated Loads (lb)
   Vert: 9=149(B) 21=159(B) 22=158(B) 23=157(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 7-8=-150, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-154(B) 21=-146(B) 22=-146(B) 23=-146(B)
53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 9=-305(B) 21=-300(B) 22=-299(B) 23=-299(B)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 9=-305(B) 21=-300(B) 22=-299(B) 23=-299(B)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 7-8=-111, 9-17=-20
Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
Concentrated Loads (lb)
Vert: 9=-305(B) 21=-300(B) 22=-299(B) 23=-299(B)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 7-8=-117, 9-17=-20
Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
Concentrated Loads (lb)
Vert: 9=-305(B) 21=-300(B) 22=-299(B) 23=-299(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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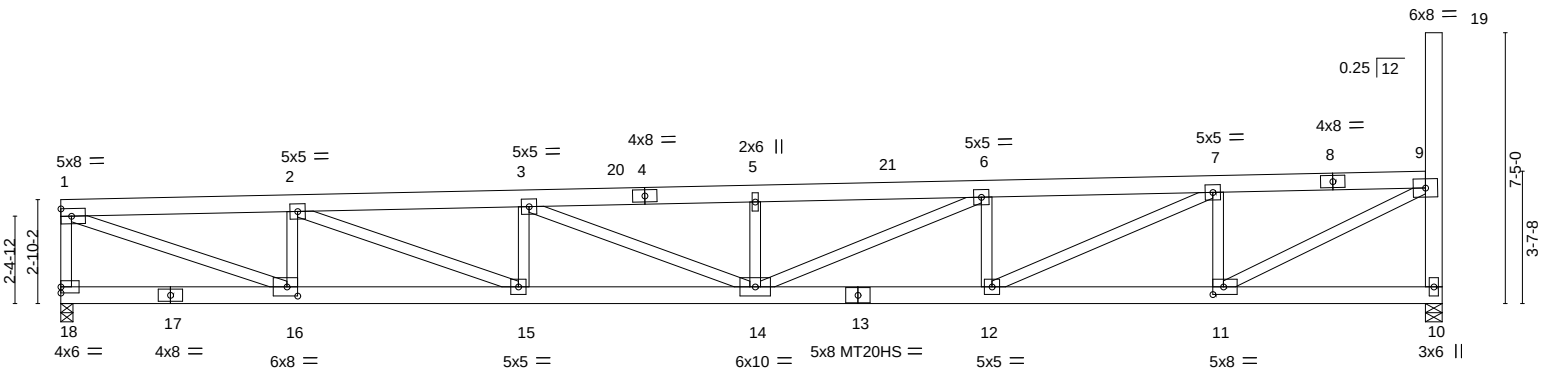
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T67	Roof Special	5	1	I50511002
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:06 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HouIHfiA_ZyQbxgoqXoqgNkaj7mhdJ7Zs2pEV3zfIFl

6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

Scale = 1:63.1



6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8], [16:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.43	14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.84	14-15	>534	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 269 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-19: 2x6 SP No.1, 1-16: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.

REACTIONS. (size) 18=0-4-0, 10=0-5-8
Max Horz 18=212(LC 12)
Max Grav 18=1897(LC 21), 10=2104(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1818/286, 1-2=-3978/542, 2-3=-6034/852, 3-5=-6471/950, 5-6=-6472/955, 6-7=-5489/876, 7-9=-3294/639, 9-10=-2025/305
BOT CHORD 16-18=-305/197, 15-16=-711/3972, 14-15=-889/6027, 12-14=-682/5483, 11-12=-424/3286
WEBS 1-16=-581/4174, 2-16=-1392/297, 2-15=-328/2211, 3-15=-691/194, 3-14=-101/474, 5-14=-513/156, 6-14=-208/1081, 6-12=-926/244, 7-12=-384/2437, 7-11=-1598/296, 9-11=-468/3599

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-3, Corner(3) 22-7-3 to 37-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 10-18=-20
Trapezoidal Loads (plf)
Vert: 7=-68-to-9=-150

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-60, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-59-to-9=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-68, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-67-to-9=-128
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-39, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-38-to-9=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-81, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-79-to-9=-161
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-42, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-40-to-9=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-51, 10-18=-20
      Horz: 1-18=13, 1-9=-9, 9-10=3, 9-19=27
   Trapezoidal Loads (plf)
      Vert: 7=-50-to-9=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-57, 10-18=-20
      Horz: 1-18=-3, 1-9=-3, 9-10=-13, 9-19=-27
   Trapezoidal Loads (plf)
      Vert: 7=-55-to-9=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-51, 10-18=-20
      Horz: 1-18=10, 1-9=-9, 9-10=2, 9-19=18
   Trapezoidal Loads (plf)
      Vert: 7=-50-to-9=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-7=-57, 10-18=-20
      Horz: 1-18=-2, 1-9=-3, 9-10=-10, 9-19=18
   Trapezoidal Loads (plf)
      Vert: 7=-55-to-9=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-7=-70, 10-18=-20
   Trapezoidal Loads (plf)
      Vert: 7=-68-to-9=-150

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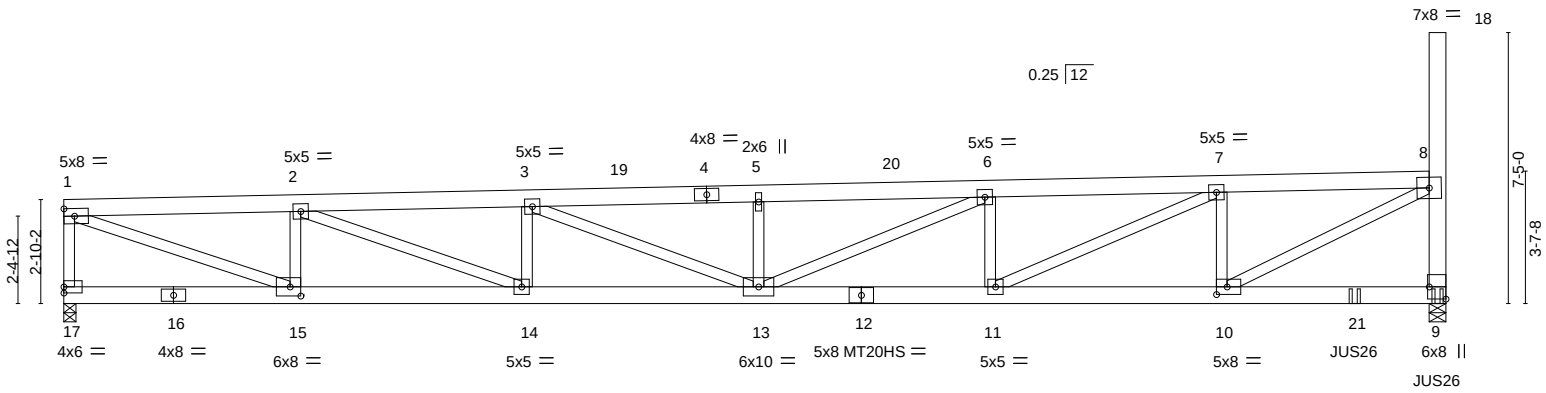
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T68	Roof Special Girder	1	1	I50511003
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:08 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-DA02hKkRWAC8qFqBxyqIlopvtxRr5BAsKMILayzfIFj

6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

Scale = 1:63.1



6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	37-9-15
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	6-1-10

Plate Offsets (X,Y)-- [9:Edge,0-5-8], [10:0-3-8,0-2-8], [15:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.46	13	>981	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.87	13-14	>516	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 269 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-18: 2x6 SP No.1, 1-15: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.

REACTIONS. (size) 17=0-4-0, 9=0-5-8
Max Horz 17=212(LC 12)
Max Uplift 9=-922(LC 15)
Max Grav 17=1930(LC 21), 9=2673(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1851/318, 1-2=-4058/619, 2-3=-6188/999, 3-5=-6695/1167, 5-6=-6696/1171, 6-7=-5764/1134, 7-8=-3670/1023, 8-9=-2277/475
BOT CHORD 15-17=-306/198, 14-15=-788/4053, 13-14=-1036/6181, 11-13=-939/5758, 10-11=-808/3659
WEBS 1-15=-663/4259, 2-15=-1423/326, 2-14=-404/2290, 3-14=-721/225, 3-13=-176/550, 5-13=-517/159, 6-13=-255/1025, 6-11=-888/256, 7-11=-528/2328, 7-10=-1726/370, 8-10=-824/3975

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-3, Corner(3) 22-7-3 to 37-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=922.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-3-3 oc max. starting at 35-4-0 from the left end to 37-7-3 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 7-8=-150, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-132(F) 21=-126(F)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 7-8=-120, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-107(F) 21=-100(F)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 7-8=-128, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-107(F) 21=-100(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 7-8=-99, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-107(F) 21=-100(F)

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-81, 7-8=-161, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-132(F) 21=-126(F)

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 7-8=-122, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-132(F) 21=-126(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 9=333(F) 21=341(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Concentrated Loads (lb)
   Vert: 9=333(F) 21=341(F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18
   Concentrated Loads (lb)
   Vert: 9=333(F) 21=341(F)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
   Concentrated Loads (lb)
   Vert: 9=333(F) 21=341(F)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 7-8=-150, 9-17=-20
   Concentrated Loads (lb)
   Vert: 9=-132(F) 21=-126(F)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=13, 1-8=-9, 8-9=3, 8-18=27
   Concentrated Loads (lb)
   Vert: 9=-467(F) 21=-462(F)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 7-8=-117, 9-17=-20
   Horz: 1-17=-3, 1-8=-3, 8-9=-13, 8-18=-27
   Concentrated Loads (lb)
   Vert: 9=-467(F) 21=-462(F)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 7-8=-111, 9-17=-20
   Horz: 1-17=10, 1-8=-9, 8-9=2, 8-18=18

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511003
PRYOR-R2A	T68	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-467(F) 21=-462(F)
56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 7-8=-117, 9-17=-20
Horz: 1-17=-2, 1-8=-3, 8-9=-10, 8-18=18
Concentrated Loads (lb)
Vert: 9=-467(F) 21=-462(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T69	Roof Special	1	1	I50511004
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:09 2022 Page 1
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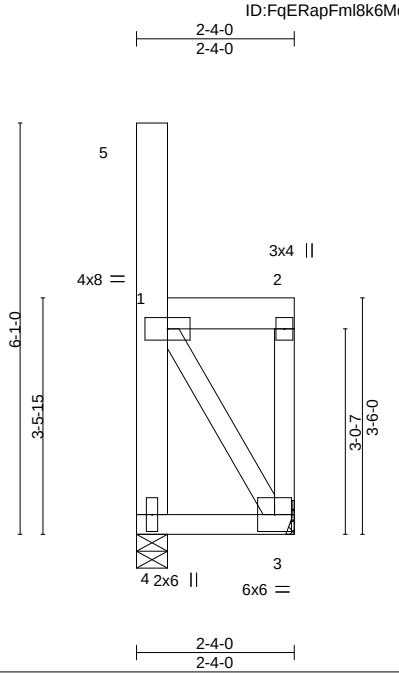

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=167(LC 12)
Max Uplift 4=-281(LC 11), 3=-281(LC 12)
Max Grav 4=342(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/833
BOT CHORD 3-4=-274/440
WEBS 1-3=-742/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=281, 3=281.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511004
PRYOR-R2A	T69	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T70	Roof Special	1	1	I50511005
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:11 2022 Page 1
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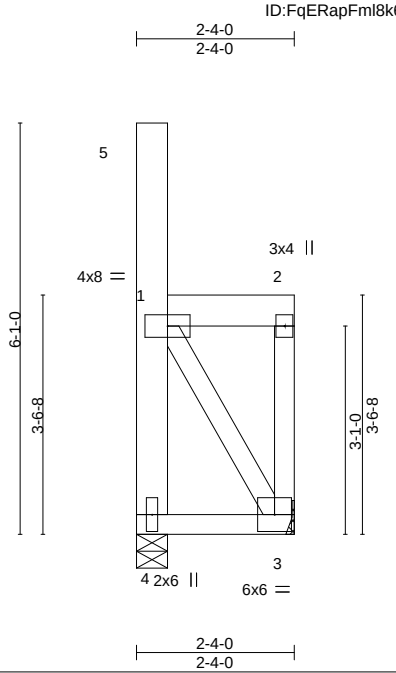

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=166(LC 12)
Max Uplift 4=-280(LC 11), 3=-280(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/829
BOT CHORD 3-4=-272/436
WEBS 1-3=-739/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=280, 3=280.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511005
PRYOR-R2A	T70	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T71	Roof Special	1	1	I50511006
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:12 2022 Page 1
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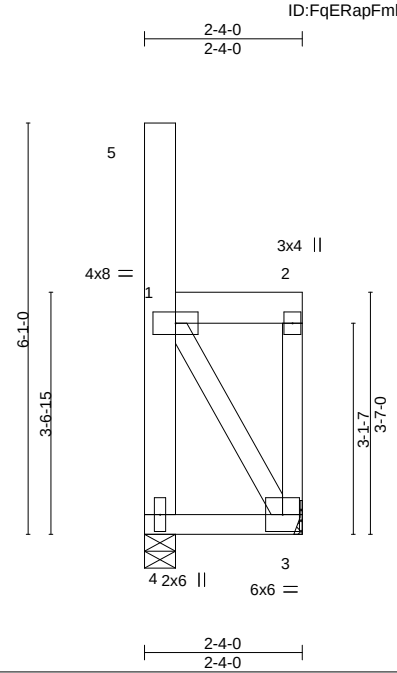

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-166(LC 11)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/826
BOT CHORD 3-4=-271/431
WEBS 1-3=-737/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T72	Roof Special	1	1	I50511007
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:13 2022 Page 1
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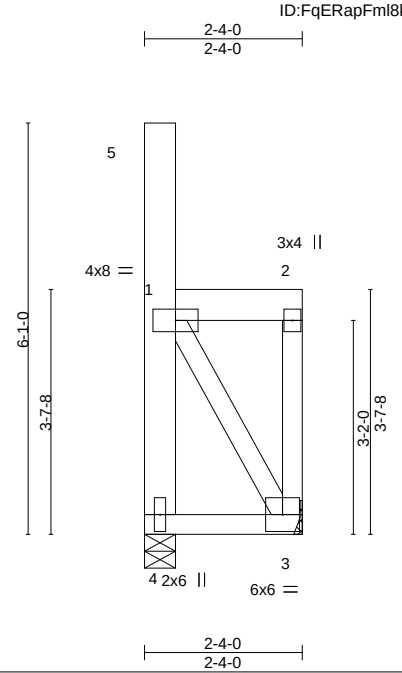

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=340(LC 25), 3=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/822
BOT CHORD 3-4=-269/427
WEBS 1-3=-734/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T73	Roof Special	1	1	I50511008
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:14 2022 Page 1
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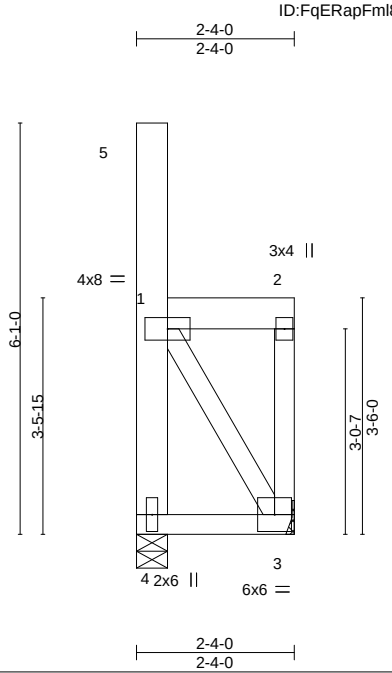

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-167(LC 11)
Max Uplift 4=-281(LC 11), 3=-281(LC 12)
Max Grav 4=342(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/833
BOT CHORD 3-4=-274/440
WEBS 1-3=-742/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=281, 3=281.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511008
PRYOR-R2A	T73	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T74	Roof Special	2	1	I50511009
					Job Reference (optional)

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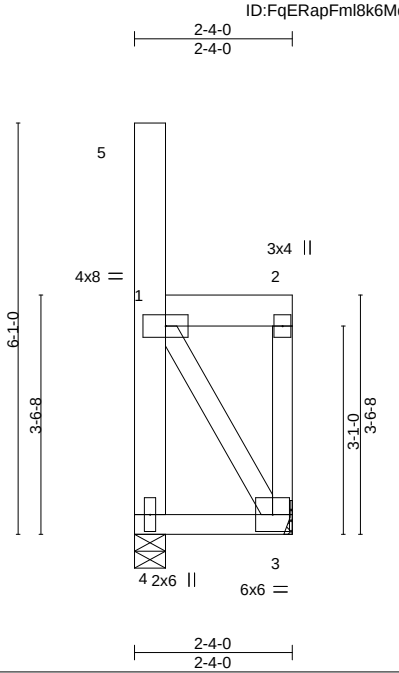

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-166(LC 11)
Max Uplift 4=-280(LC 11), 3=-280(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/829
BOT CHORD 3-4=-272/436
WEBS 1-3=-739/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=280, 3=280.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T75	Roof Special	3	1	I50511010
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:16 2022 Page 1
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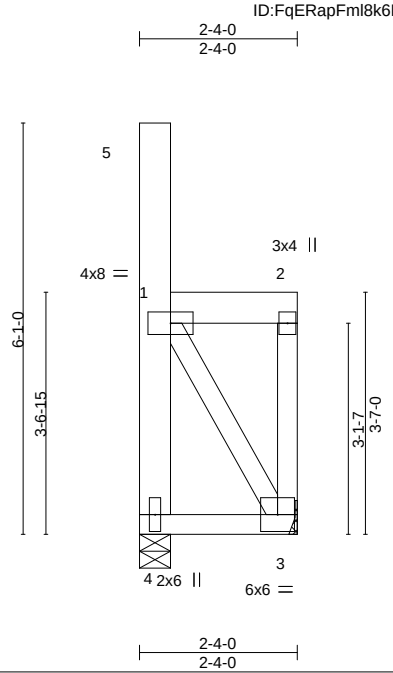

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-166(LC 11)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/826
BOT CHORD 3-4=-271/431
WEBS 1-3=-737/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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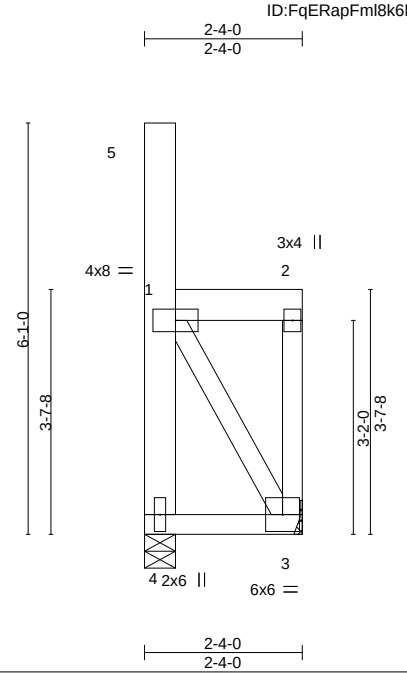
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T76	Roof Special	3	1	I50511011
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:17 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Sv3SaPr4OxKsPe0wzLVPchhWfZi6iT?BOFzJOxzfIFa



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=340(LC 25), 3=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/822
BOT CHORD 3-4=-269/427
WEBS 1-3=-734/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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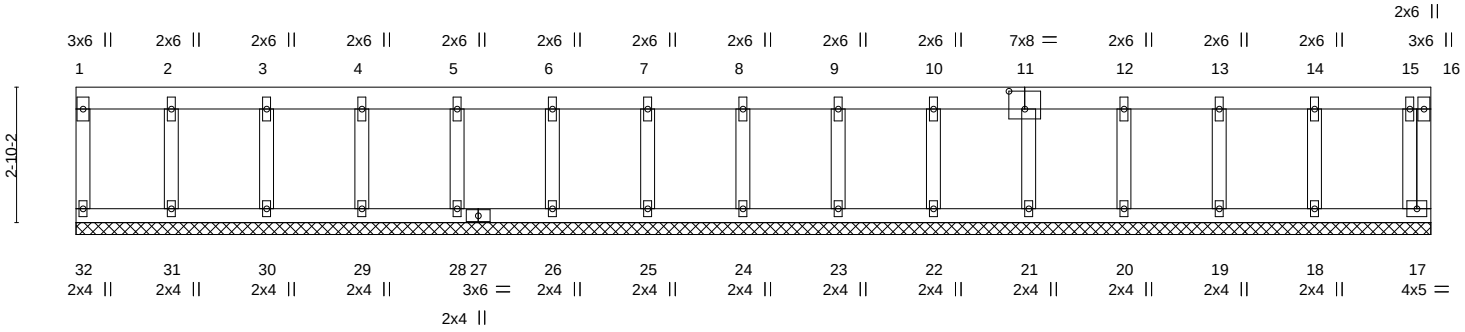
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T77	Flat Supported Gable	1	1	I50511012
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:19 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-OIAD?5sKwYbafxAI4mXth6mv6NPNAPUUsZSQSpzfIFY

28-5-5
28-5-5

Scale: 1/4"=1'



28-5-5
28-5-5

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 159 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,19-20,18-19,17-18.

REACTIONS. All bearings 28-5-5.
(lb) - Max Horz 32=-53(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 32, 17, 31, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 17, 31, 19, 18.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T78	Roof Special	1	1	I50511013
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:21 2022 Page 1
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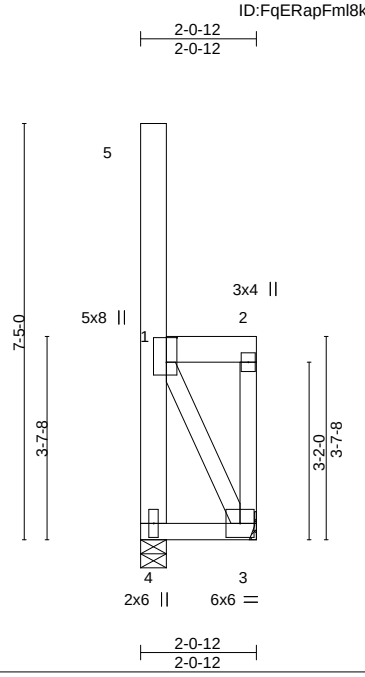

Plate Offsets (X,Y)-- [1:0-5-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-213(LC 13)
Max Uplift 4=-512(LC 11), 3=-512(LC 12)
Max Grav 4=548(LC 14), 3=548(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-724/1463, 2-3=-287/211
BOT CHORD 3-4=-355/602
WEBS 1-3=-1201/703

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=512, 3=512.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T79	Roof Special	1	1	I50511014
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:22 2022 Page 1
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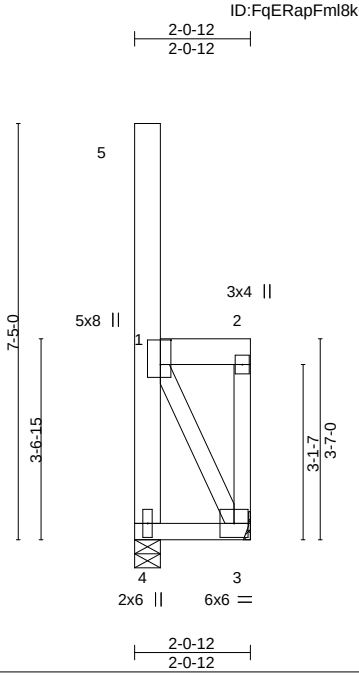

Plate Offsets (X,Y)-- [1:0-5-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-214(LC 11)
Max Uplift 4=-514(LC 11), 3=-514(LC 12)
Max Grav 4=549(LC 14), 3=549(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-724/1468, 2-3=-292/214
BOT CHORD 3-4=-357/607
WEBS 1-3=-1203/702

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=514, 3=514.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T80	MONO TRUSS	1	1	I50511015
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:24 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-lF_62owTl5Dtlj2GtJ72OATg_Ox2rTZD?rAB81zfIFT

6-4-1	12-8-2	19-0-3	25-4-4	31-8-5	33-8-11
6-4-1	6-4-1	6-4-1	6-4-1	6-4-1	2-0-6

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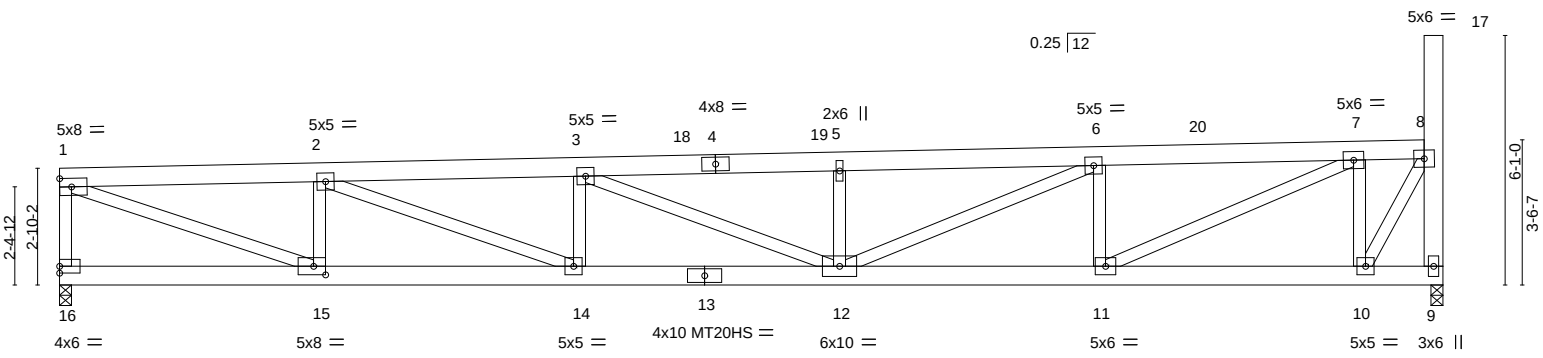

6-4-1	12-8-2	19-0-3	25-3-7	25-4-4	31-6-11	33-8-11
6-4-1	6-4-1	6-4-1	6-3-4	0-0-13	6-2-7	2-2-0

Plate Offsets (X,Y)-- [15:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.30	12-14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.59	12-14	>684	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 242 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

REACTIONS. (size) 16=0-3-8, 9=0-3-8
Max Horz 16=164(LC 12)
Max Grav 16=1680(LC 21), 9=1885(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1601/293, 1-2=-3447/541, 2-3=-5043/815, 3-5=-5057/848, 5-6=-5057/853, 6-7=-3715/686, 7-8=-1141/334, 8-9=-1857/276
BOT CHORD 15-16=-251/154, 14-15=-688/3442, 12-14=-860/5037, 11-12=-551/3708, 10-11=-158/1136
WEBS 1-15=-579/3605, 2-15=-1191/297, 2-14=-288/1716, 3-14=-507/180, 5-12=-499/168, 6-12=-278/1478, 6-11=-1120/289, 7-11=-479/2854, 7-10=-1744/337, 8-10=-306/2118

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-15, Corner(3) 18-5-15 to 33-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 20=-70-to-8=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-60, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-67, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-39, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-80, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-42, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 1-16=13, 1-8=-9, 8-9=3, 8-17=27
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 1-16=-3, 1-8=-3, 8-9=-13, 8-17=-27
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 1-16=10, 1-8=-9, 8-9=2, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 1-16=-2, 1-8=-3, 8-9=-10, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-70, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-70-to-8=-150

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T81	Roof Special	4	1	I50511016
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:25 2022 Page 1
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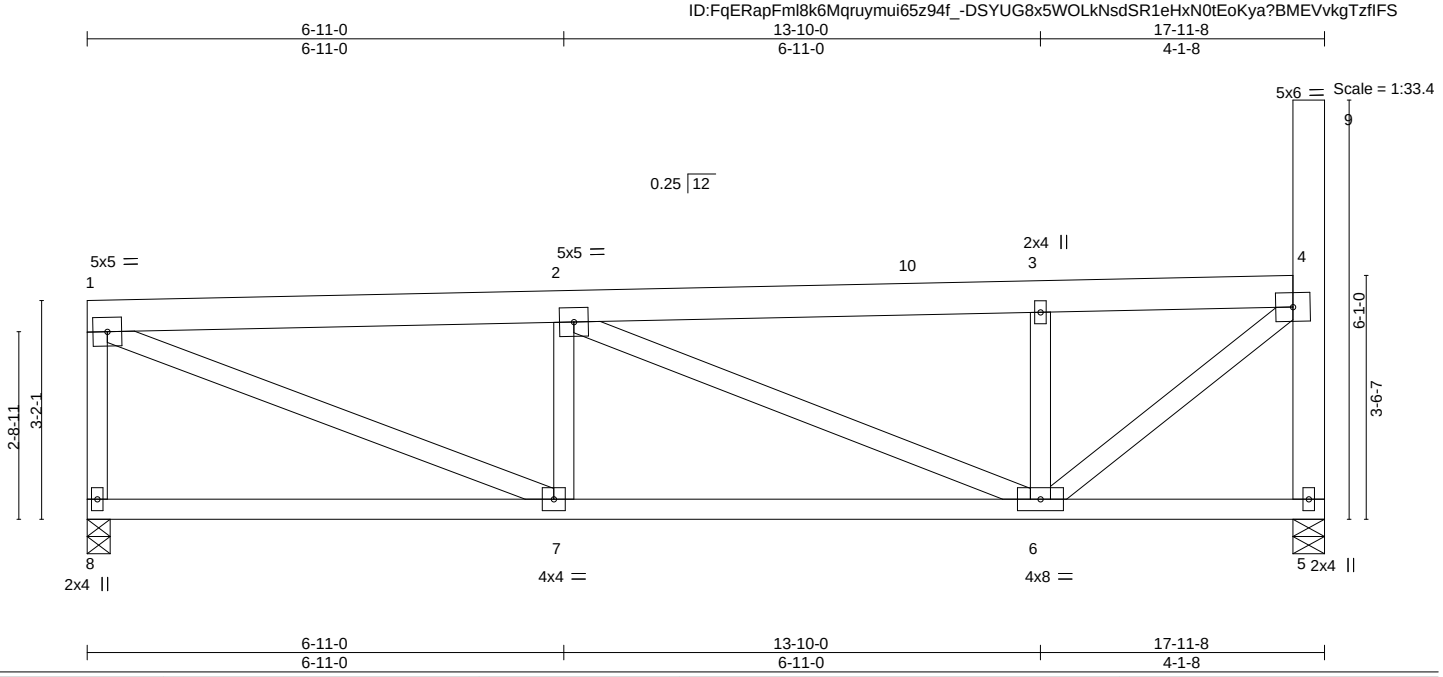

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.11	7-8	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 120 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.

REACTIONS. (size) 8=0-4-0, 5=0-5-8
Max Horz 8=166(LC 12)
Max Grav 8=880(LC 21), 5=1060(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-825/318, 1-2=-1411/466, 2-3=-1043/427, 3-4=-1043/433, 4-5=-1035/328
BOT CHORD 7-8=-293/195, 6-7=-544/1408
WEBS 1-7=-522/1523, 2-7=-428/296, 2-6=-432/291, 3-6=-539/246, 4-6=-377/1290

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-60-to-4=-120

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-65-to-4=-125

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-39-to-4=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-77-to-4=-157

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-42-to-4=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-51, 5-8=-20
Horz: 1-8=13, 1-4=-9, 4-5=3, 4-9=27
Trapezoidal Loads (plf)
Vert: 10=-51-to-4=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-57, 5-8=-20
Horz: 1-8=-3, 1-4=-3, 4-5=-13, 4-9=-27
Trapezoidal Loads (plf)
Vert: 10=-57-to-4=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-51, 5-8=-20
Horz: 1-8=10, 1-4=-9, 4-5=2, 4-9=18
Trapezoidal Loads (plf)
Vert: 10=-51-to-4=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-10=-57, 5-8=-20
Horz: 1-8=-2, 1-4=-3, 4-5=-10, 4-9=18
Trapezoidal Loads (plf)
Vert: 10=-57-to-4=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 10=-70-to-4=-150

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T82	GABLE	1	1	I50511017
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:28 2022 Page 1
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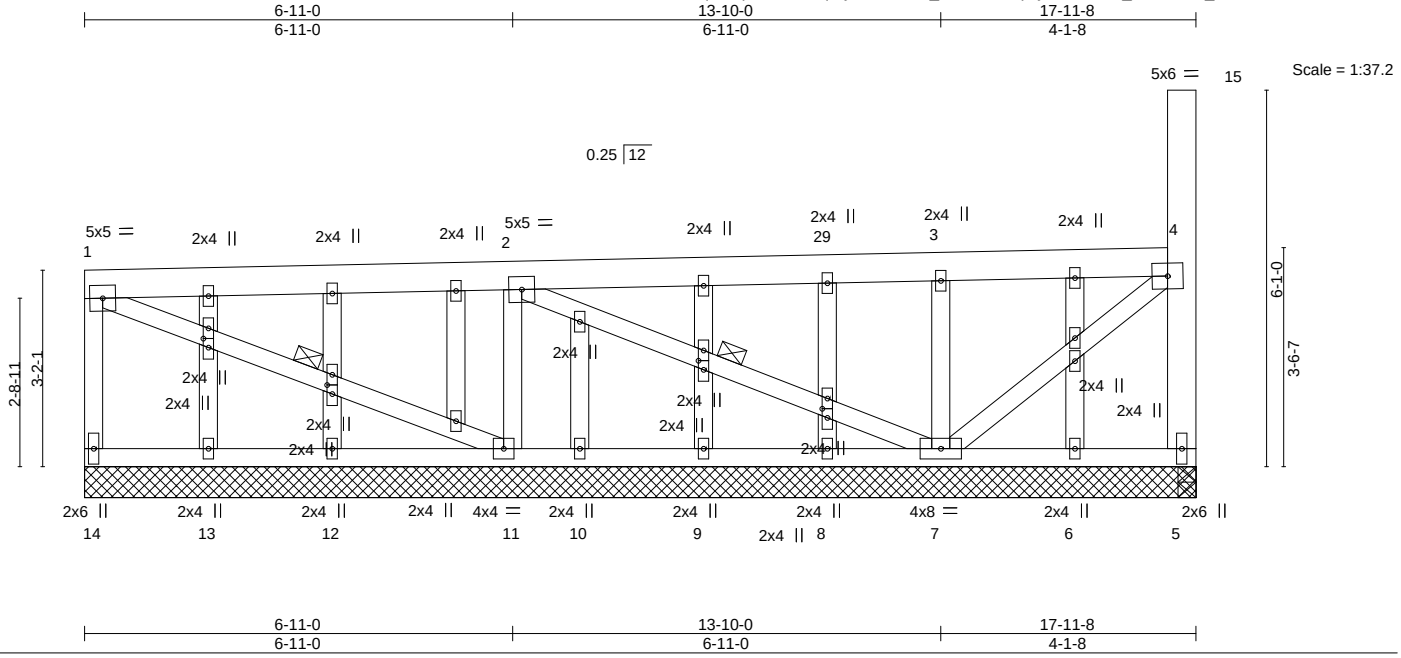

Plate Offsets (X,Y)-- [16:0-1-12,0-1-0], [18:0-1-12,0-1-0], [24:0-1-12,0-1-0], [26:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	6	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.00	11-12	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.02	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 144 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 5-15: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-10 oc bracing.
WEBS	1 Row at midpt 1-11, 2-7

REACTIONS. All bearings 17-11-8.
(lb) - Max Horz 14=166(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-630(LC 44), 5=-930(LC 47), 11=-103(LC 53), 7=-520(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 5, 13, 12, 10, 9, 8, 6 except 14=704(LC 51), 5=963(LC 48), 11=635(LC 21), 7=870(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-691/641, 1-2=-1313/1273, 2-3=-1232/1148, 3-4=-1234/1160, 4-5=-950/1045
BOT CHORD	13-14=-664/514, 12-13=-1064/914, 11-12=-1647/1498, 10-11=-378/295, 9-10=-778/695, 8-9=-1178/1095, 7-8=-1545/1461, 6-7=-795/808, 5-6=-362/375
WEBS	1-11=-1536/1608, 2-11=-859/772, 2-7=-1204/1246, 3-7=-550/252, 4-7=-1522/1470

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 630 lb uplift at joint 14, 930 lb uplift at joint 5, 103 lb uplift at joint 11 and 520 lb uplift at joint 7.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-11-8 for 200.0 plf.

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Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-70, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-70-to-4=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-60, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-60-to-4=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-65, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-65-to-4=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-39, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-39-to-4=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-77, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-77-to-4=-157
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-29=-42, 5-14=-20
   Trapezoidal Loads (plf)
   Vert: 29=-42-to-4=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-51, 5-14=-20
   Horz: 1-14=13, 1-4=-9, 4-5=3, 4-15=27
   Trapezoidal Loads (plf)
   Vert: 29=-51-to-4=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-57, 5-14=-20
   Horz: 1-14=-3, 1-4=-3, 4-5=-13, 4-15=-27
   Trapezoidal Loads (plf)
   Vert: 29=-57-to-4=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-51, 5-14=-20
   Horz: 1-14=10, 1-4=-9, 4-5=2, 4-15=18
   Trapezoidal Loads (plf)
   Vert: 29=-51-to-4=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-57, 5-14=-20
   Horz: 1-14=-2, 1-4=-3, 4-5=-10, 4-15=18
   Trapezoidal Loads (plf)
   Vert: 29=-57-to-4=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-57, 5-14=-20
   Horz: 1-4=7200
   Drag: 5-14=-150
   Trapezoidal Loads (plf)
   Vert: 29=-57-to-4=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-63, 5-14=-20
   Horz: 1-4=-7200
   Drag: 5-14=150
   Trapezoidal Loads (plf)
   Vert: 29=-63-to-4=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-29=-62, 5-14=-20
   Horz: 1-4=7200
   Drag: 5-14=-150
   Trapezoidal Loads (plf)
   Vert: 29=-62-to-4=-122

Continued on page 3

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-69, 5-14=-20
Horz: 1-4=-7200
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-69-to-4=-129

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-36, 5-14=-20
Horz: 1-4=7200
Drag: 5-14=-150
Trapezoidal Loads (plf)
Vert: 29=-36-to-4=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-42, 5-14=-20
Horz: 1-4=-7200
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-42-to-4=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-48, 5-14=-20
Horz: 1-14=13, 1-4=7191, 4-5=3, 4-15=27
Drag: 5-14=-150
Trapezoidal Loads (plf)
Vert: 29=-48-to-4=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-54, 5-14=-20
Horz: 1-14=13, 1-4=-7209, 4-5=3, 4-15=27
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-54-to-4=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-54, 5-14=-20
Horz: 1-14=-3, 1-4=7197, 4-5=-13, 4-15=-27
Drag: 5-14=-150
Trapezoidal Loads (plf)
Vert: 29=-54-to-4=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-60, 5-14=-20
Horz: 1-14=-3, 1-4=-7203, 4-5=-13, 4-15=-27
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-60-to-4=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-48, 5-14=-20
Horz: 1-14=10, 1-4=7191, 4-5=2, 4-15=18
Drag: 5-14=-150
Trapezoidal Loads (plf)
Vert: 29=-48-to-4=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-54, 5-14=-20
Horz: 1-14=10, 1-4=-7209, 4-5=2, 4-15=18
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-54-to-4=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-54, 5-14=-20
Horz: 1-14=-2, 1-4=7197, 4-5=-10, 4-15=18
Drag: 5-14=-150
Trapezoidal Loads (plf)
Vert: 29=-54-to-4=-114

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T82	GABLE	1	1	I50511017 Job Reference (optional)

LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-29=-60, 5-14=-20
Horz: 1-14=-2, 1-4=-7203, 4-5=-10, 4-15=18
Drag: 5-14=150
Trapezoidal Loads (plf)
Vert: 29=-60-to-4=-120

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T83	Roof Special Girder	1	1	I50511018
					Job Reference (optional)

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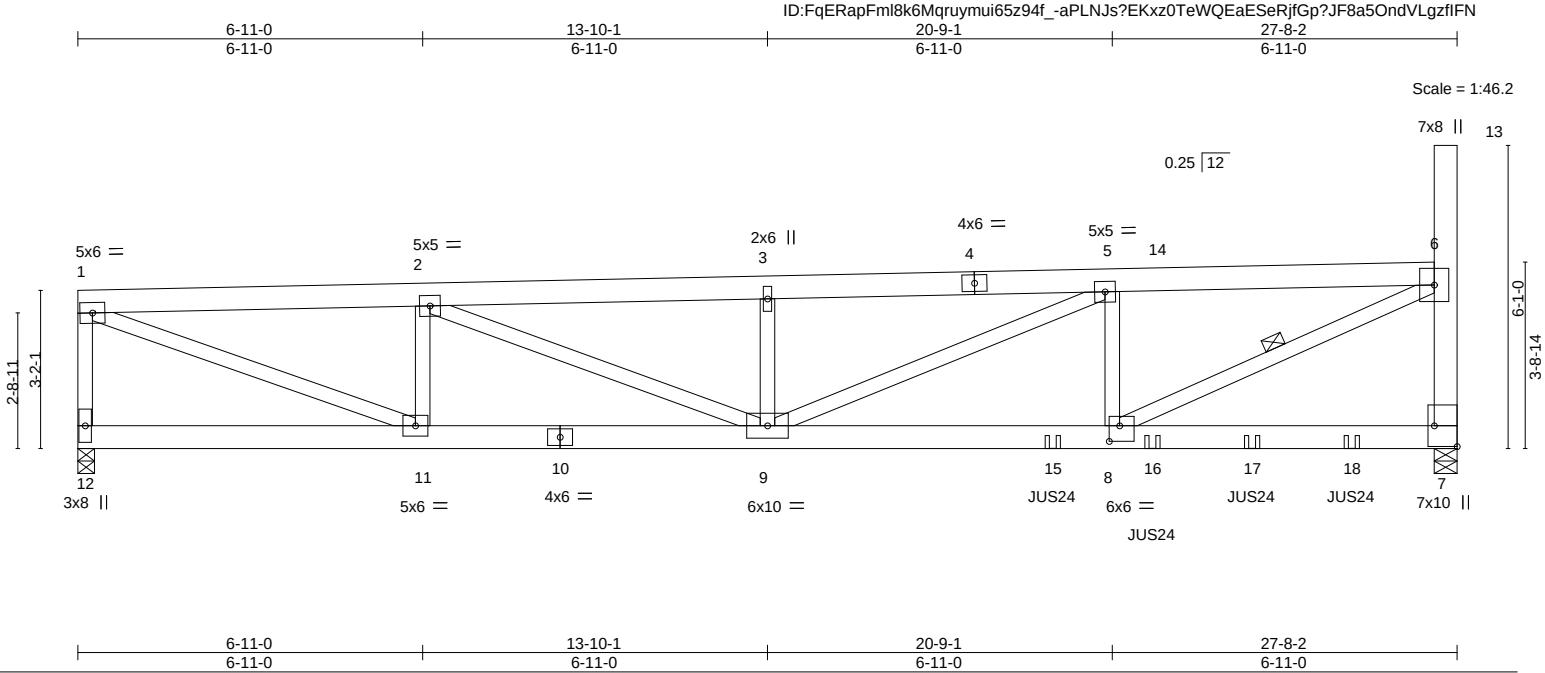

Plate Offsets (X,Y)-- [7:Edge,0-5-8], [8:0-2-8,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.18	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.33	9	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 7-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-7-10 oc bracing.
WEBS	1 Row at midpt 6-8

REACTIONS. (size) 12=0-4-0, 7=0-5-8
Max Horz 12=161(LC 12)
Max Uplift 12=-170(LC 11), 7=-884(LC 15)
Max Grav 12=1503(LC 21), 7=2339(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-1426/520, 1-2=-2878/1014, 2-3=-3838/1636, 3-5=-3837/1642, 5-6=-3525/1942, 6-7=-1989/945
BOT CHORD	11-12=-265/161, 9-11=-1147/2873, 8-9=-1826/3406
WEBS	1-11=-1089/3029, 2-11=-999/498, 2-9=-666/1144, 3-9=-500/227, 5-9=-765/1092, 5-8=-995/554, 6-8=-1941/3596

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 12 and 884 lb uplift at joint 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 19-6-12 from the left end to 25-6-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-70, 6-14=-150, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 16=-146(B) 17=-146(B) 18=-146(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-60, 6-14=-120, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 16=-117(B) 17=-117(B) 18=-117(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-67, 6-14=-127, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 16=-117(B) 17=-117(B) 18=-117(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-39, 6-14=-99, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-117(B) 16=-117(B) 17=-117(B) 18=-117(B)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-79, 6-14=-159, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 16=-146(B) 17=-146(B) 18=-146(B)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-42, 6-14=-122, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 16=-146(B) 17=-146(B) 18=-146(B)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-51, 6-14=-111, 7-12=-20
   Horz: 1-12=13, 1-6=-9, 6-7=3, 6-13=27
   Concentrated Loads (lb)
   Vert: 15=157(B) 16=157(B) 17=156(B) 18=155(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-57, 6-14=-117, 7-12=-20
   Horz: 1-12=-3, 1-6=-3, 6-7=-13, 6-13=-27
   Concentrated Loads (lb)
   Vert: 15=157(B) 16=157(B) 17=156(B) 18=155(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-51, 6-14=-111, 7-12=-20
   Horz: 1-12=10, 1-6=-9, 6-7=2, 6-13=18
   Concentrated Loads (lb)
   Vert: 15=157(B) 16=157(B) 17=156(B) 18=155(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-57, 6-14=-117, 7-12=-20
   Horz: 1-12=-2, 1-6=-3, 6-7=-10, 6-13=18
   Concentrated Loads (lb)
   Vert: 15=157(B) 16=157(B) 17=156(B) 18=155(B)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-70, 6-14=-150, 7-12=-20
   Concentrated Loads (lb)
   Vert: 15=-146(B) 16=-146(B) 17=-146(B) 18=-146(B)
53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-51, 6-14=-111, 7-12=-20
   Horz: 1-12=13, 1-6=-9, 6-7=3, 6-13=27
   Concentrated Loads (lb)
   Vert: 15=-299(B) 16=-298(B) 17=-297(B) 18=-296(B)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-57, 6-14=-117, 7-12=-20
   Horz: 1-12=-3, 1-6=-3, 6-7=-13, 6-13=-27
   Concentrated Loads (lb)
   Vert: 15=-299(B) 16=-298(B) 17=-297(B) 18=-296(B)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-14=-51, 6-14=-111, 7-12=-20
   Horz: 1-12=10, 1-6=-9, 6-7=2, 6-13=18

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511018
PRYOR-R2A	T83	Roof Special Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 15=-299(B) 16=-298(B) 17=-297(B) 18=-296(B)
56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-57, 6-14=-117, 7-12=-20
Horz: 1-12=-2, 1-6=-3, 6-7=-10, 6-13=18
Concentrated Loads (lb)
Vert: 15=-299(B) 16=-298(B) 17=-297(B) 18=-296(B)

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T84	Roof Special	14	1	I50511019
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:32 2022 Page 1
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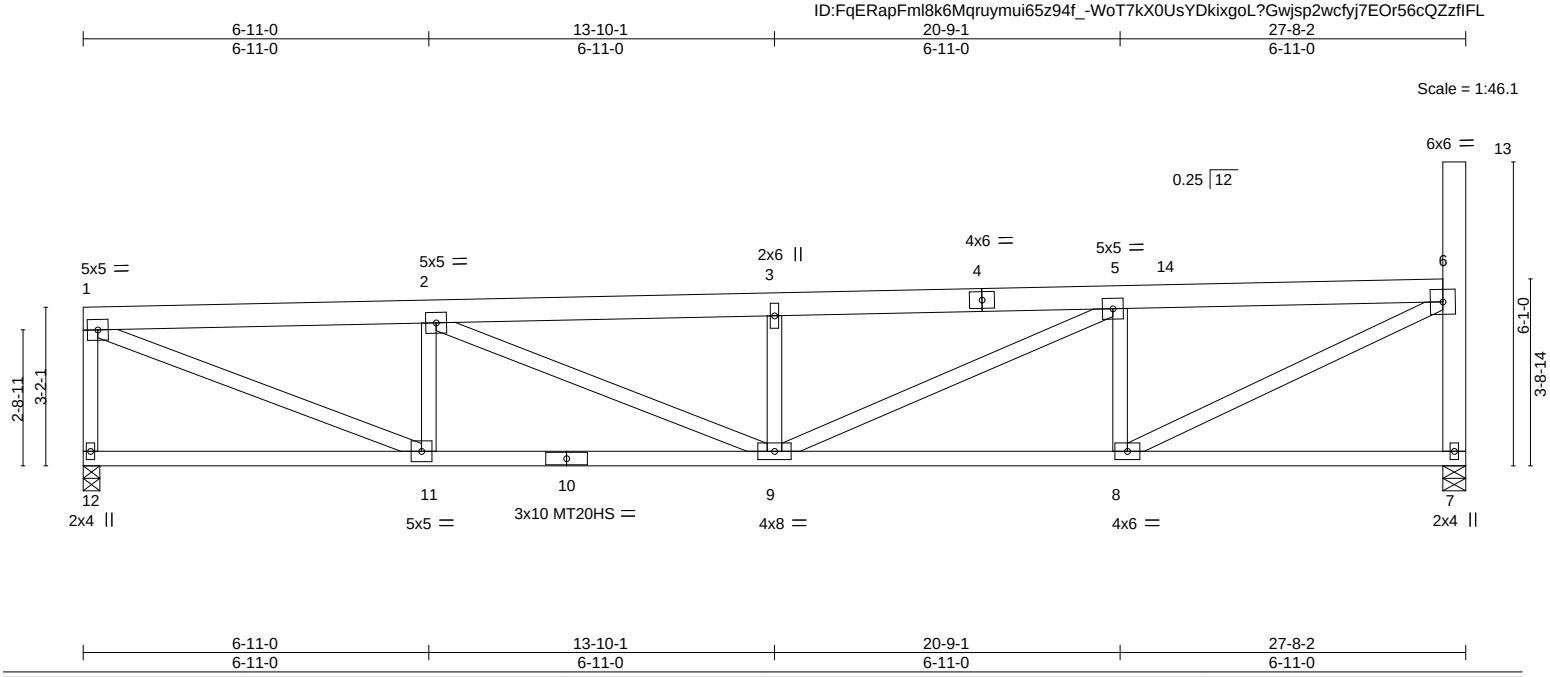

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.15	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.31	9-11	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 176 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
7-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-15 oc bracing.

REACTIONS. (size) 12=0-4-0, 7=0-5-8
Max Horz 12=163(LC 12)
Max Grav 12=1365(LC 21), 7=1564(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1300/318, 1-2=-2495/517, 2-3=-3157/688, 3-5=-3157/694, 5-6=-2344/574, 6-7=-1498/334
BOT CHORD 11-12=-257/166, 9-11=-652/2490, 8-9=-458/2336
WEBS 1-11=-570/2638, 2-11=-870/310, 2-9=-179/718, 3-9=-523/215, 5-9=-268/899, 5-8=-992/325, 6-8=-526/2510

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-60, 7-12=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 14=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-67, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-67-to-6=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-39-to-6=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-79, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-79-to-6=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-42-to-6=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-51, 7-12=-20
Horz: 1-12=13, 1-6=-9, 6-7=3, 6-13=27
Trapezoidal Loads (plf)
Vert: 14=-51-to-6=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-57, 7-12=-20
Horz: 1-12=-3, 1-6=-3, 6-7=-13, 6-13=-27
Trapezoidal Loads (plf)
Vert: 14=-57-to-6=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-51, 7-12=-20
Horz: 1-12=10, 1-6=-9, 6-7=2, 6-13=18
Trapezoidal Loads (plf)
Vert: 14=-51-to-6=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-14=-57, 7-12=-20
Horz: 1-12=-2, 1-6=-3, 6-7=-10, 6-13=18
Trapezoidal Loads (plf)
Vert: 14=-57-to-6=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-14=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 14=-70-to-6=-150

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T85	Roof Special	3	1	I50511020
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:33 2022 Page 1
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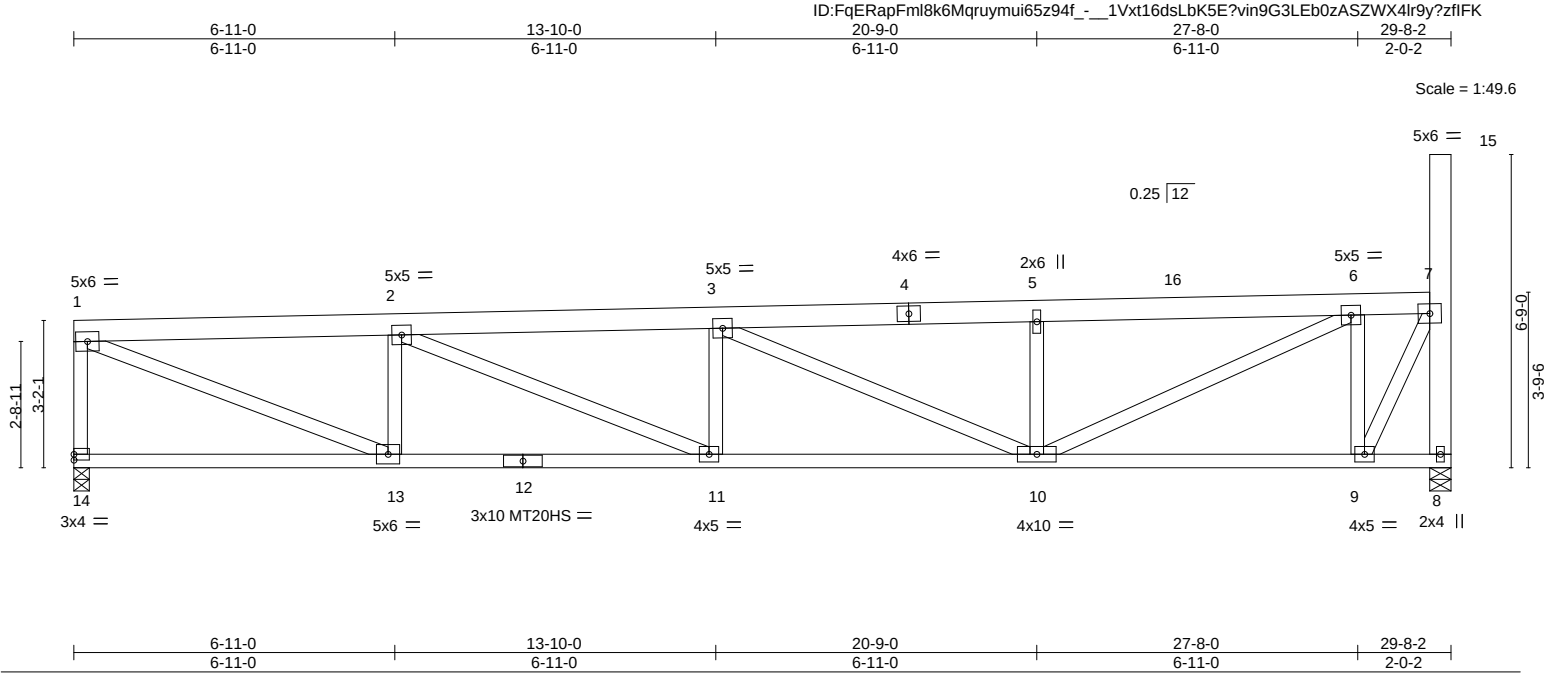

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.18	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.37	10-11	>943	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=187(LC 12)
Max Grav 14=1469(LC 21), 8=1669(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1403/320, 1-2=-2729/529, 2-3=-3599/737, 3-5=-2966/668, 5-6=-2967/674, 6-7=-911/355, 7-8=-1667/292
BOT CHORD 13-14=-288/188, 11-13=-677/2724, 10-11=-741/3592, 9-10=-153/906
WEBS 1-13=-584/2890, 2-13=-966/314, 2-11=-219/944, 3-10=-692/215, 5-10=-580/216, 6-10=-497/2286, 6-9=-1564/371, 7-9=-328/1879

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-79-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

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Chesterfield, MO 63017

Building 2 Area A ROOF

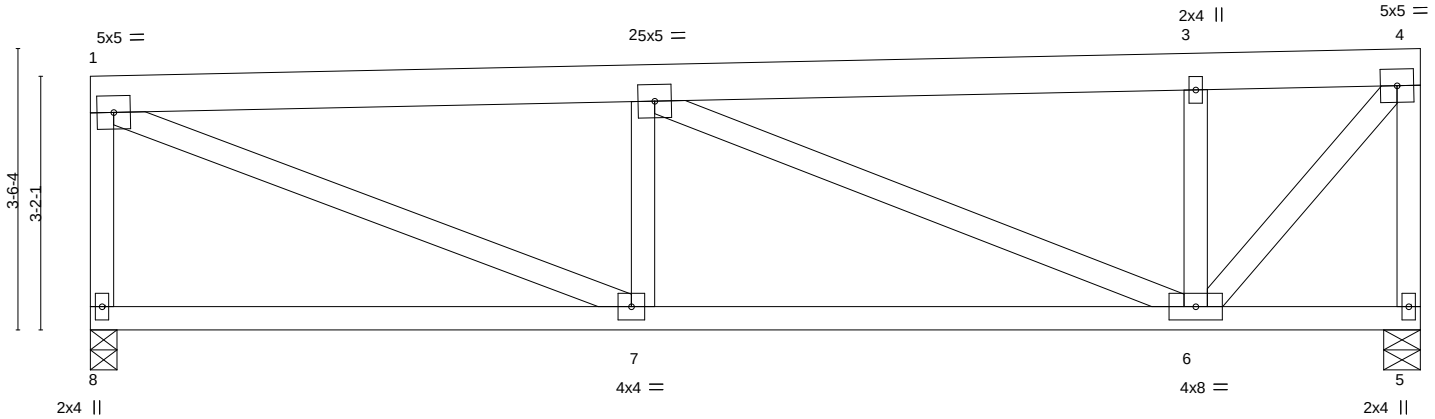
Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T86	Roof Special	6	1	I50511021
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:35 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-wN8GMZ3M9TcJZPON07pdLURcLqliwV?qX3KG1uzfIFI

6-11-0 13-10-0 16-7-12
6-11-0 6-11-0 2-9-12

0.25 12

Scale = 1:28.8



6-11-0 13-10-0 16-7-12
6-11-0 6-11-0 2-9-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.03	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.10	7-8	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 106 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-8-14 oc bracing.

REACTIONS. (size) 8=0-4-0, 5=0-5-8
Max Horz 8=67(LC 12)
Max Grav 8=795(LC 21), 5=795(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-740/285, 1-2=-1218/382, 2-3=-665/231, 3-4=-663/237, 4-5=-788/264
BOT CHORD 6-7=-443/1215
WEBS 1-7=-429/1315, 2-7=-348/261, 2-6=-604/221, 3-6=-430/233, 4-6=-334/1019

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T86S	GABLE	1	1	I50511022
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:37 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-tlG0nF4dh4s1piYm8Ys5QvWxSdUiOTd7?NpN5mzfIFG

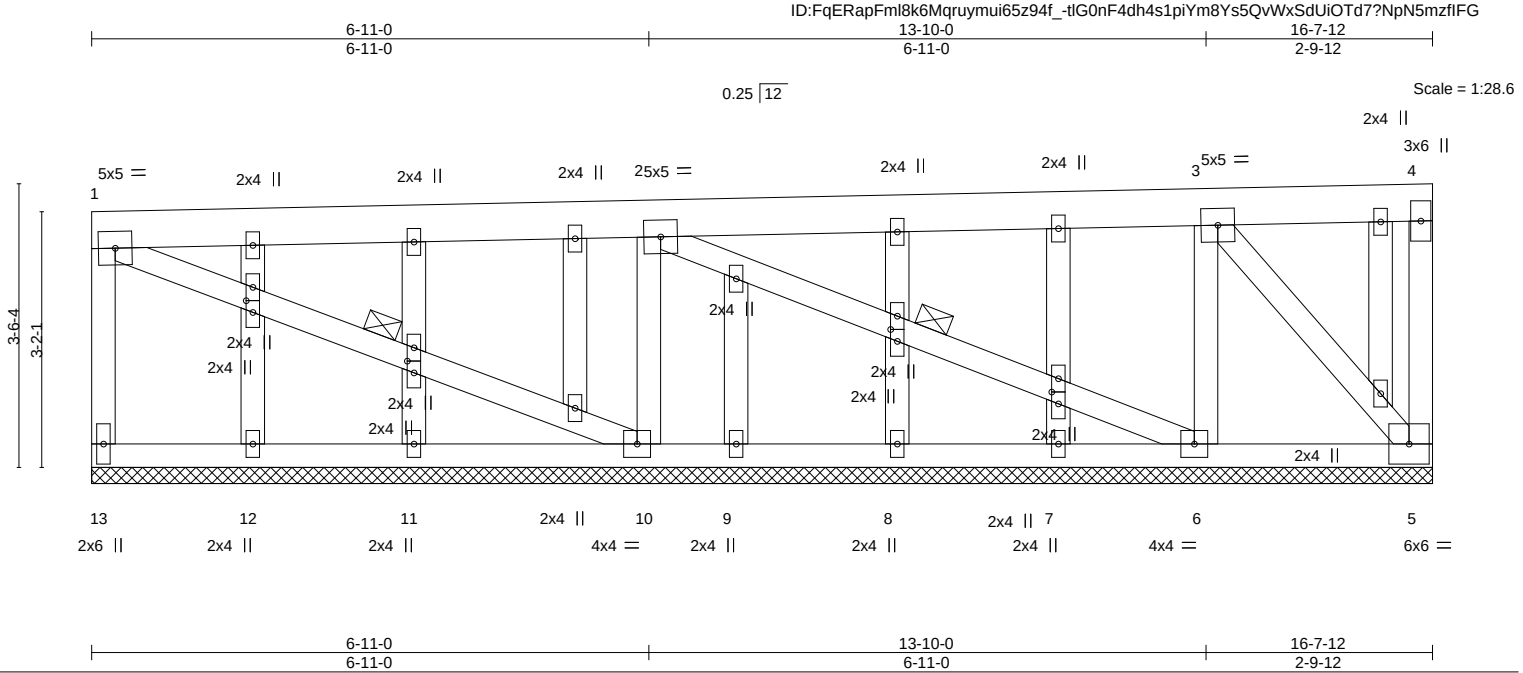

Plate Offsets (X,Y)-- [14:0-1-12,0-1-0], [16:0-1-12,0-1-0], [22:0-1-12,0-1-0], [24:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 129 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-3 oc bracing.
WEBS	1 Row at midpt 1-10, 2-6

REACTIONS. All bearings 16-7-12.
(lb) - Max Horz 13=67(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 13=-618(LC 44), 5=-897(LC 47), 6=-452(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 12, 11, 9, 8, 7 except 13=696(LC 65), 5=951(LC 64), 10=652(LC 21), 6=709(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-687/693, 1-2=-1270/1251, 2-3=-1169/1150, 3-4=-561/559
BOT CHORD	12-13=-472/460, 11-12=-872/860, 10-11=-1455/1444, 9-10=-263/257, 8-9=-663/657, 7-8=-1063/1057, 6-7=-1429/1424, 5-6=-784/783
WEBS	1-10=-1518/1526, 2-10=-897/829, 2-6=-1218/1223, 3-6=-1099/1112, 3-5=-1238/1245

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=618, 5=897, 6=452.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-7-12 for 200.0 plf.

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T87	Roof Special	2	1	I50511023
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:39 2022 Page 1
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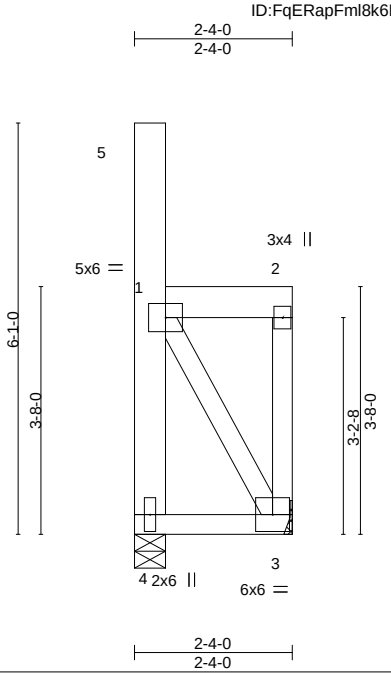

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-164(LC 11)
Max Uplift 4=-277(LC 11), 3=-277(LC 12)
Max Grav 4=339(LC 25), 3=339(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/819
BOT CHORD 3-4=-268/422
WEBS 1-3=-731/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=277, 3=277.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T88	Roof Special	2	1	I50511024
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:40 2022 Page 1
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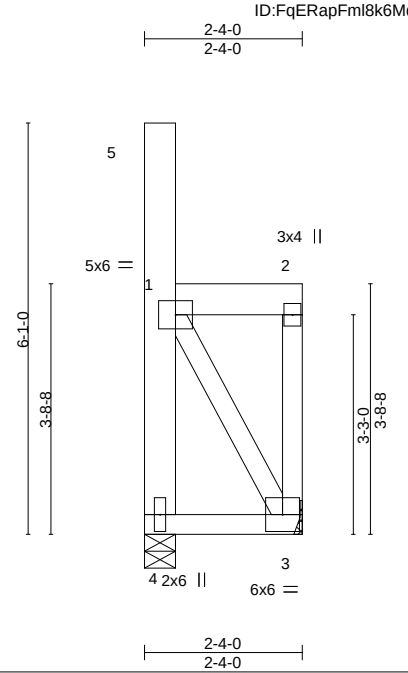

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=164(LC 12)
Max Uplift 4=-276(LC 11), 3=-276(LC 12)
Max Grav 4=338(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/815
BOT CHORD 3-4=-266/418
WEBS 1-3=-729/463

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=276, 3=276.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

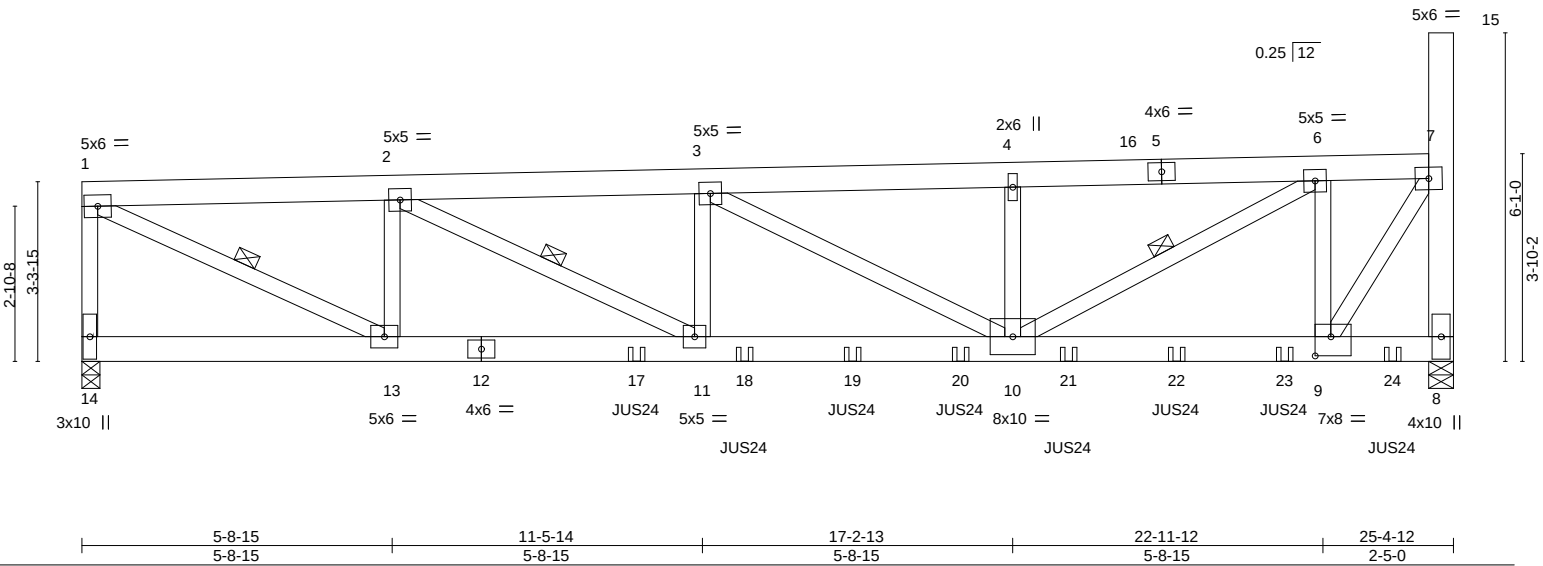
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T89	Roof Special Girder	1	1	I50511025
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:42 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Dj3vqy8lWdUJvURjw5RG7zDl9e3t3fus8eX8m_zfIFB

5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

Scale = 1:42.7



5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

Plate Offsets (X,Y)-- [9:0-3-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.26	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.30	10-11	>986	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 191 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-1-2 oc bracing.
WEBS	1 Row at midpt 1-13, 2-11, 6-10

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=72(LC 12)
Max Uplift 14=-684(LC 11), 8=-1524(LC 15)
Max Grav 14=1728(LC 50), 8=2739(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1665/1019, 1-2=-2880/1779, 2-3=-4716/3175, 3-4=-4374/3032, 4-6=-4374/3037, 6-7=-1747/1212, 7-8=-2657/1788
BOT CHORD	11-13=-1845/2841, 10-11=-3229/4675, 9-10=-1204/1706
WEBS	1-13=-1969/3193, 2-13=-1337/971, 2-11=-1592/2070, 3-10=-438/197, 4-10=-473/204, 6-10=-2144/3039, 6-9=-1790/1155, 7-9=-2089/3041

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=684, 8=1524.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-3-4 from the left end to 24-3-4 to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B) 21=-146(B) 22=-146(B) 23=-146(B) 24=-147(B)
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B) 21=-117(B) 22=-117(B) 23=-117(B) 24=-117(B)
Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-66, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B) 21=-117(B) 22=-117(B) 23=-117(B) 24=-117(B)
Trapezoidal Loads (plf)
Vert: 16=-66-to-7=-126

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(B) 18=-117(B) 19=-117(B) 20=-117(B) 21=-117(B) 22=-117(B) 23=-117(B) 24=-117(B)
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-78, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B) 21=-146(B) 22=-146(B) 23=-146(B) 24=-147(B)
Trapezoidal Loads (plf)
Vert: 16=-78-to-7=-158

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B) 21=-146(B) 22=-146(B) 23=-146(B) 24=-147(B)
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=158(B) 18=157(B) 19=157(B) 20=156(B) 21=155(B) 22=154(B) 23=153(B) 24=152(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=158(B) 18=157(B) 19=157(B) 20=156(B) 21=155(B) 22=154(B) 23=153(B) 24=152(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=158(B) 18=157(B) 19=157(B) 20=156(B) 21=155(B) 22=154(B) 23=153(B) 24=152(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=158(B) 18=157(B) 19=157(B) 20=156(B) 21=155(B) 22=154(B) 23=153(B) 24=152(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20

Continued on page 3

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 17=-146(B) 18=-146(B) 19=-146(B) 20=-146(B) 21=-146(B) 22=-146(B) 23=-146(B) 24=-147(B)
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-299(B) 18=-299(B) 19=-298(B) 20=-297(B) 21=-296(B) 22=-296(B) 23=-295(B) 24=-294(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-299(B) 18=-299(B) 19=-298(B) 20=-297(B) 21=-296(B) 22=-296(B) 23=-295(B) 24=-294(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-299(B) 18=-299(B) 19=-298(B) 20=-297(B) 21=-296(B) 22=-296(B) 23=-295(B) 24=-294(B)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-299(B) 18=-299(B) 19=-298(B) 20=-297(B) 21=-296(B) 22=-296(B) 23=-295(B) 24=-294(B)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

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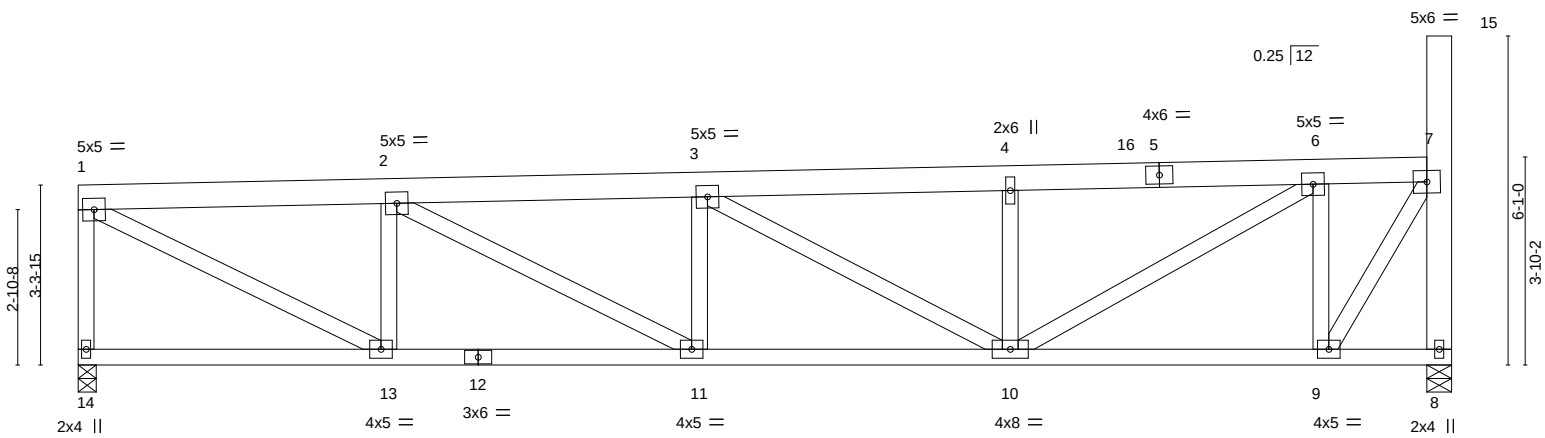
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T90	Roof Special	6	1	I50511026 Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:44 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-A5BfFeA01Ek19na62WUkCOI8qSmVXbS9cy0ErszfIF9

5-8-15 | 11-5-14 | 17-2-13 | 22-11-12 | 25-4-12
5-8-15 | 5-8-15 | 5-8-15 | 5-8-15 | 2-5-0

Scale = 1:42.6



5-8-15 | 11-5-14 | 17-2-13 | 22-11-12 | 25-4-12
5-8-15 | 5-8-15 | 5-8-15 | 5-8-15 | 2-5-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.10	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.20	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 172 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-4 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=162(LC 12)
Max Grav 14=1248(LC 21), 8=1444(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1194/315, 1-2=-1856/419, 2-3=-2518/601, 3-4=-2187/563, 4-6=-2187/568, 6-7=-870/325, 7-8=-1428/305
BOT CHORD 13-14=-259/172, 11-13=-575/1851, 10-11=-643/2513, 9-10=-155/865
WEBS 1-13=-490/2057, 2-13=-844/305, 2-11=-199/750, 3-10=-382/161, 4-10=-483/201, 6-10=-405/1533, 6-9=-1247/314, 7-9=-299/1572

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-66, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-66-to-7=-126

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-78, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-78-to-7=-158

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T91	Roof Special	1	1	I50511027
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:45 2022 Page 1
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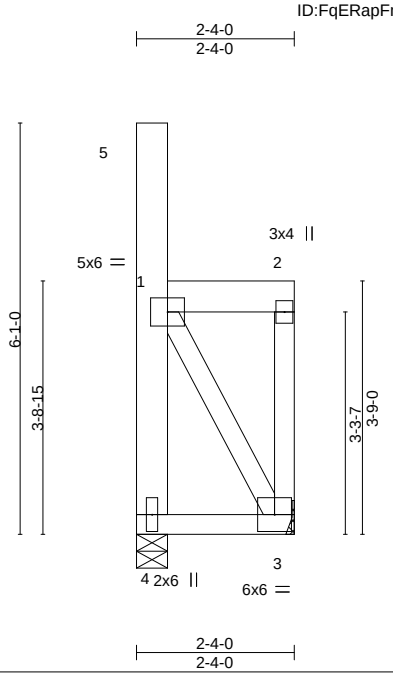

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-163(LC 11)
Max Uplift 4=-275(LC 11), 3=-275(LC 12)
Max Grav 4=338(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-379/812
BOT CHORD 3-4=-264/414
WEBS 1-3=-726/463

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=275, 3=275.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T92	Roof Special	1	1	I50511028
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:46 2022 Page 1
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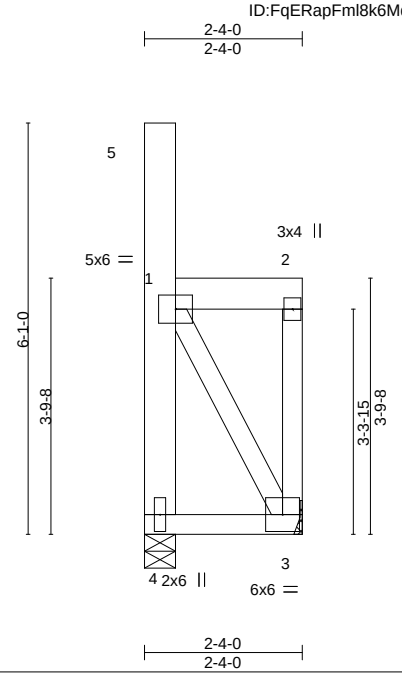

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-163(LC 11)
Max Uplift 4=-274(LC 11), 3=-274(LC 12)
Max Grav 4=337(LC 25), 3=337(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-379/808
BOT CHORD 3-4=-263/410
WEBS 1-3=-723/464

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=274, 3=274.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T93	Roof Special	1	1	I50511029
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:47 2022 Page 1
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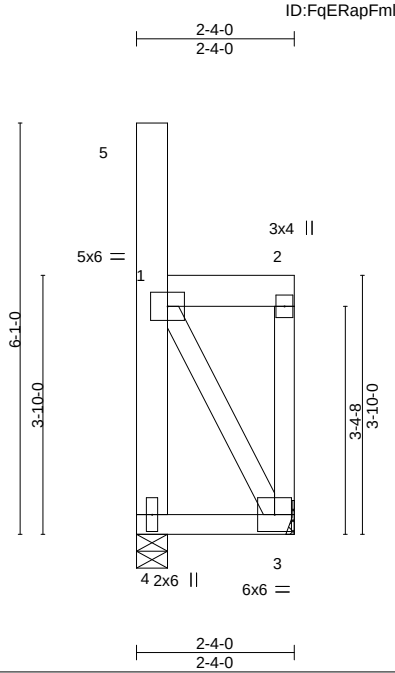

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=162(LC 12)
Max Uplift 4=-273(LC 11), 3=-273(LC 12)
Max Grav 4=336(LC 25), 3=336(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-379/804
BOT CHORD 3-4=-262/406
WEBS 1-3=-721/465

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=273, 3=273.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T94	Roof Special	1	1	I50511030
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:48 2022 Page 1
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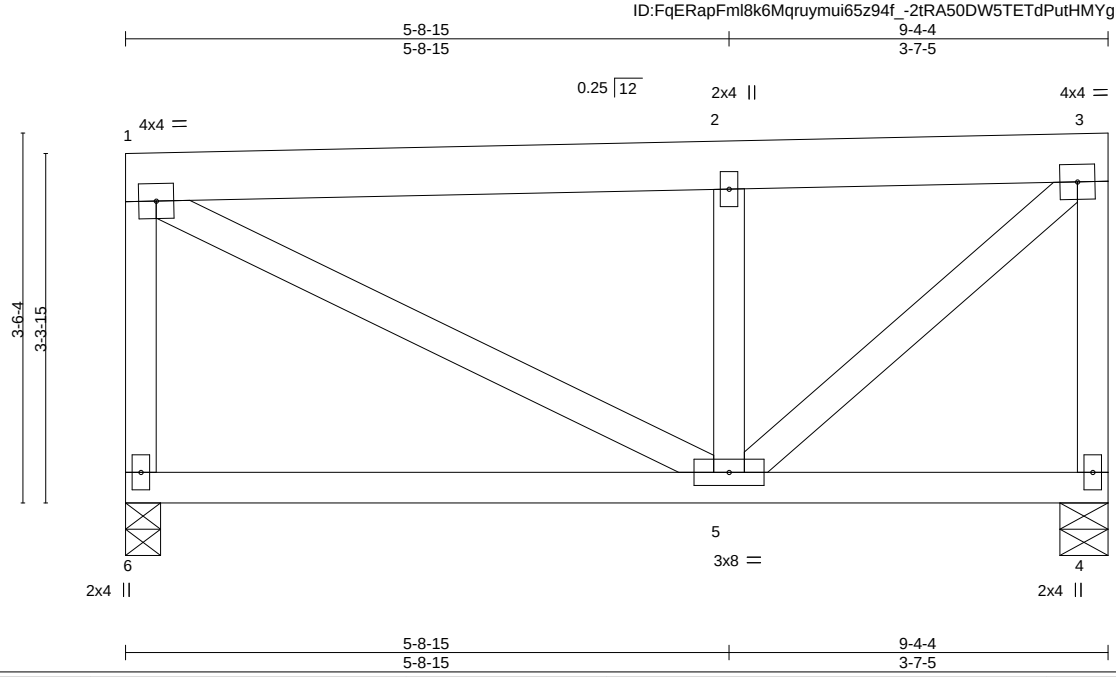

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 63 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-4-0, 4=0-5-8
Max Horz 6=67(LC 14)
Max Grav 6=440(LC 21), 4=440(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-394/237, 1-2=-391/182, 2-3=-392/190, 3-4=-421/228
WEBS 1-5=-230/438, 2-5=-441/315, 3-5=-267/523

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

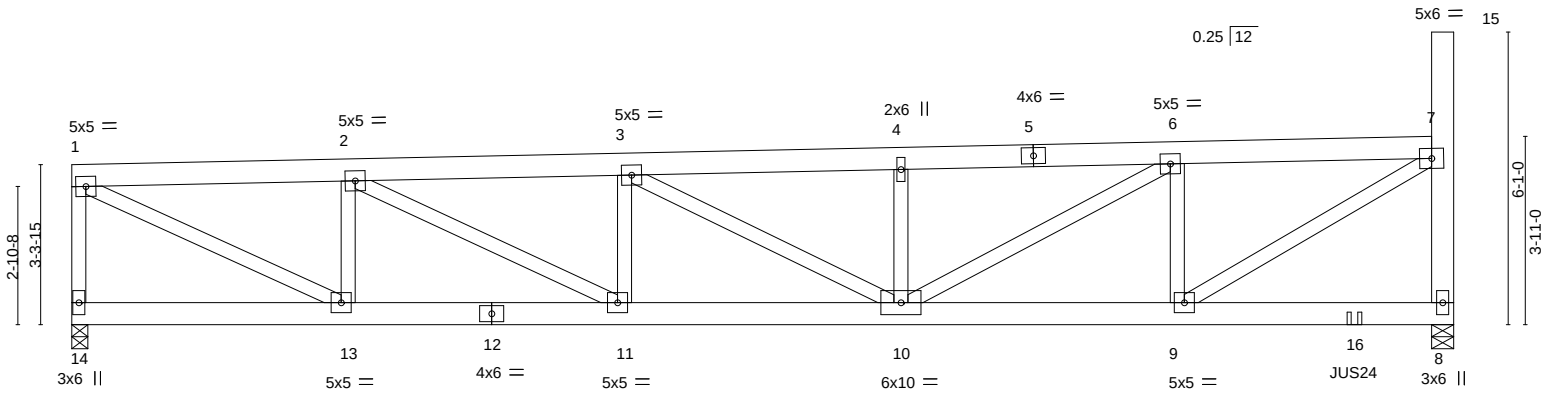
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T96	Roof Special Girder	1	1	I50511031
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:49 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-W3_YIME8smMKFYT3r33vvR0_eTXuCq9ulEj?W4zfIF4

5-8-15	11-5-14	17-2-14	22-11-13	28-8-12
5-8-15	5-8-15	5-8-15	5-8-15	5-8-15

Scale: 1/4"=1'



5-8-15	11-5-14	17-2-14	22-11-13	28-8-12
5-8-15	5-8-15	5-8-15	5-8-15	5-8-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.13	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.26	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 211 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=159(LC 14)
Max Uplift 8=-197(LC 15)
Max Grav 14=1429(LC 21), 8=1756(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1365/323, 1-2=-2229/463, 2-3=-3226/715, 3-4=-3135/749, 4-6=-3135/754, 6-7=-2129/647, 7-8=-1589/398
BOT CHORD 11-13=-623/2224, 10-11=-778/3220, 9-10=-528/2122
WEBS 1-13=-529/2456, 2-13=-1015/324, 2-11=-278/1122, 3-11=-400/188, 4-10=-437/180, 6-10=-368/1167, 6-9=-1112/357, 7-9=-593/2391

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=197.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 26-8-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-74-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-117(B)
Trapezoidal Loads (plf)
Vert: 6=-63-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-117(B)
Trapezoidal Loads (plf)
Vert: 6=-69-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-117(B)
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-83-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 16=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-46-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 16=152(B)
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 16=152(B)
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 16=152(B)
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 16=152(B)
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20

Continued on page 3

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 16=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-74-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 16=-293(B)
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 16=-293(B)
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 16=-293(B)
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 16=-293(B)
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T97	Roof Special	7	1	I50511032 Job Reference (optional)

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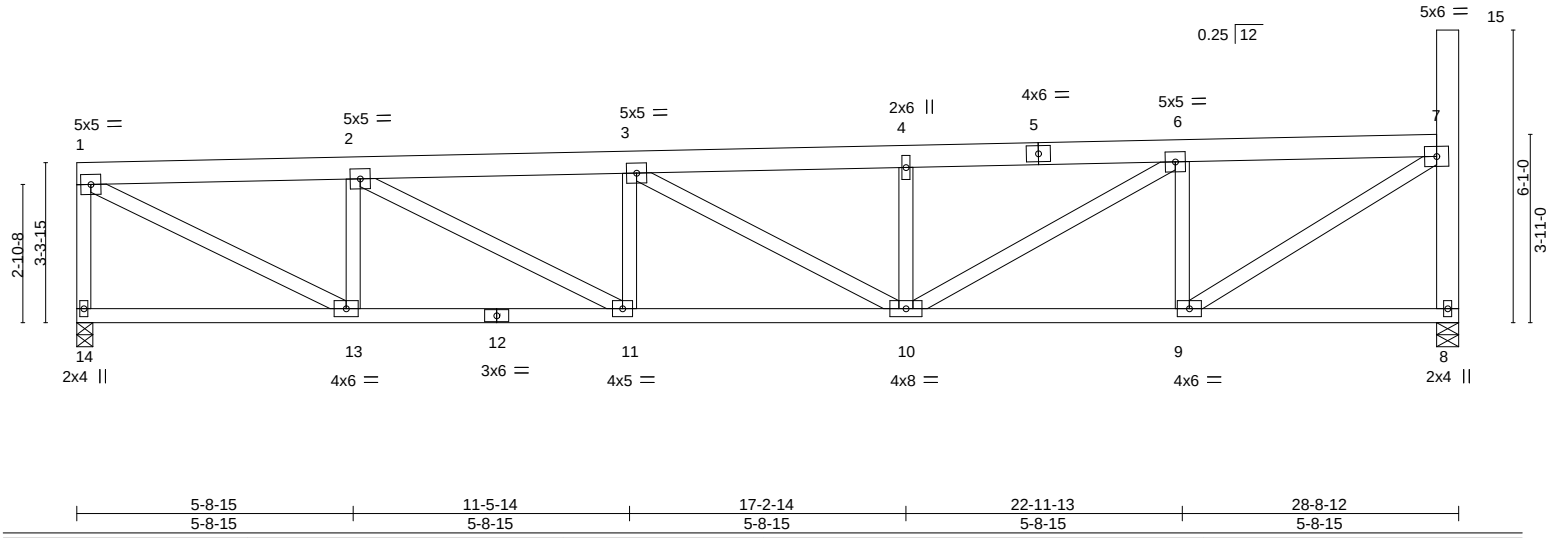
ID:FqERapFml8k6Mqruymui65z94f_-SS6Jj1FPOOd1UsdSyU6N_s5K2G7qgksBDYC6byzfIF2

5-8-15	11-5-14	17-2-14	22-11-13	28-8-12
5-8-15	5-8-15	5-8-15	5-8-15	5-8-15

Scale: 1/4"=1'



5-8-15	11-5-14	17-2-14	22-11-13	28-8-12
5-8-15	5-8-15	5-8-15	5-8-15	5-8-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.14	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.30	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 189 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-14 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=161(LC 12)
Max Grav 14=1420(LC 21), 8=1619(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1365/310, 1-2=-2163/421, 2-3=-3114/633, 3-4=-3027/647, 4-6=-3027/653, 6-7=-2009/491, 7-8=-1563/325
BOT CHORD 11-13=-583/2158, 10-11=-698/3108, 9-10=-373/2002
WEBS 1-13=-492/2402, 2-13=-1005/306, 2-11=-234/1077, 3-11=-395/178, 4-10=-444/179, 6-10=-294/1187, 6-9=-1131/315, 7-9=-449/2300

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-74-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 6=-63-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-69-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-83-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-46-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-59-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-74-to-7=-150

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T98	Roof Special	3	1	I50511033
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:52 2022 Page 1
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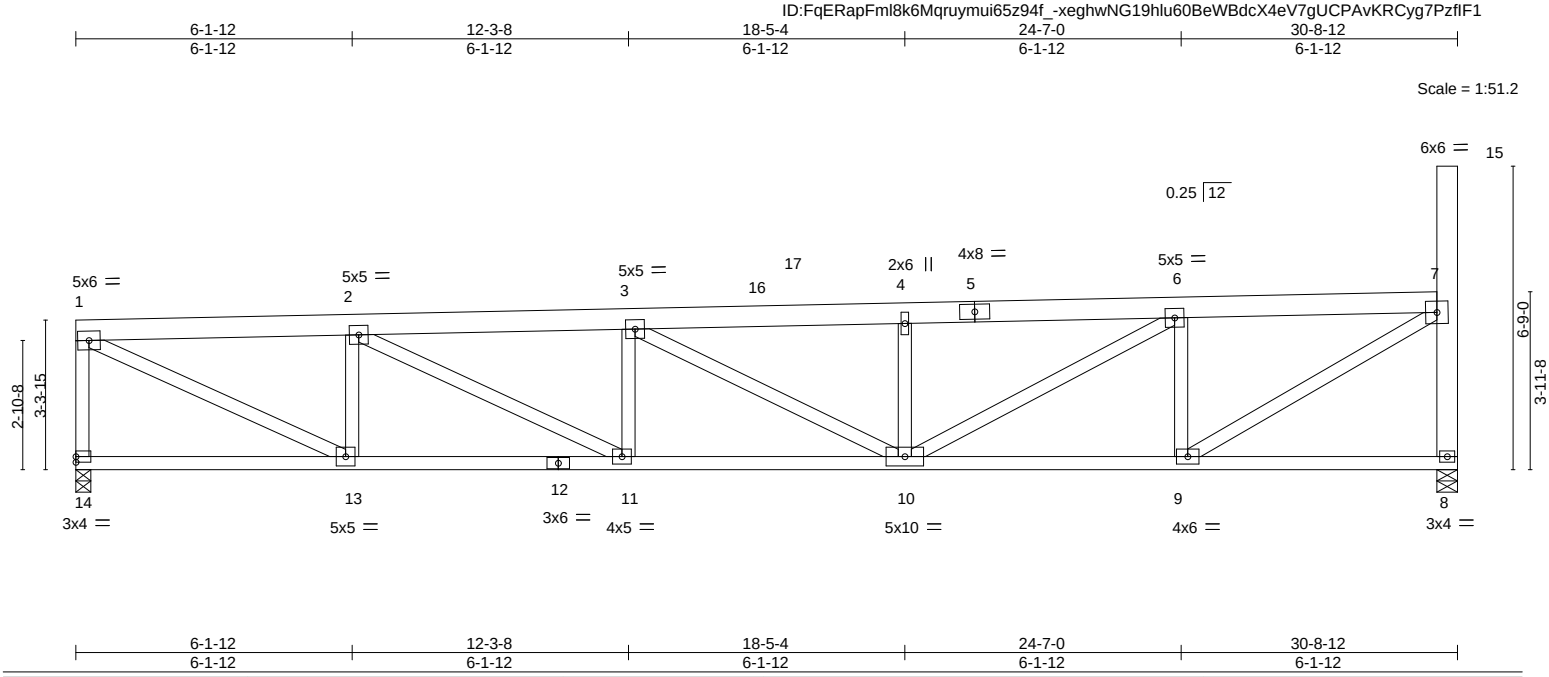

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.18	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.36	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-7 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=184(LC 12)
Max Grav 14=1524(LC 21), 8=1725(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1465/312, 1-2=-2479/453, 2-3=-3558/680, 3-4=-3444/699, 4-6=-3444/705, 6-7=-2277/542, 7-8=-1665/329
BOT CHORD 13-14=-278/186, 11-13=-622/2474, 10-11=-732/3552, 9-10=-373/2270
WEBS 1-13=-519/2714, 2-13=-1075/310, 2-11=-248/1206, 3-11=-419/183, 4-10=-475/183, 6-10=-314/1341, 6-9=-1211/318, 7-9=-464/2566

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-6-0, Corner(3) 15-6-0 to 30-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-68-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-58-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-66-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-37-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-77-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-40-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-50-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-50-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-55-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-68-to-7=-150

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T99	Roof Special	8	1	I50511034
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:53 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-PqE38jHfw?tlkAmr4v8r4HAha4rp8gmUgshDfrzfIF0

5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

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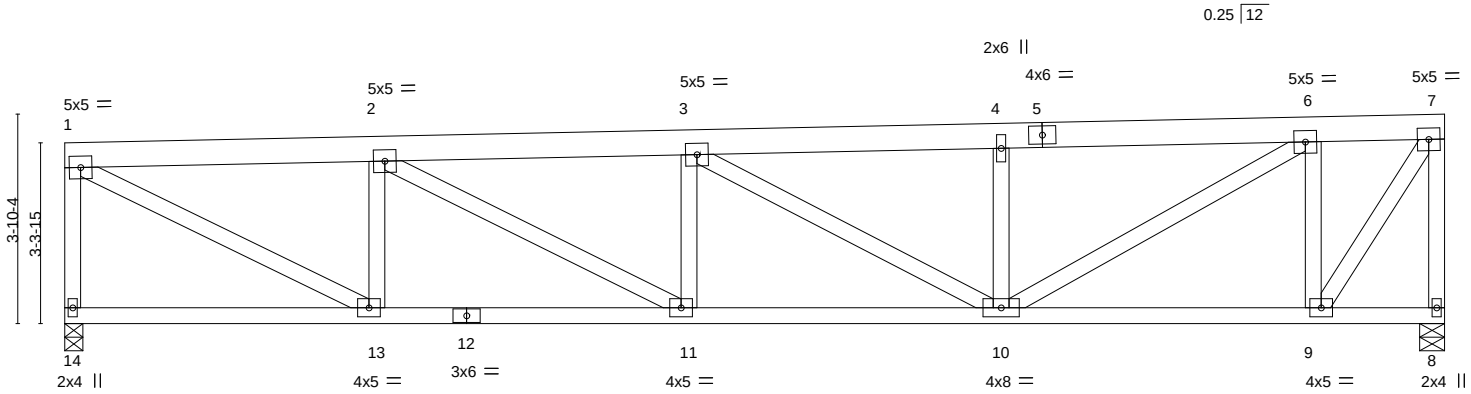

5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.09	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.20	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 164 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-7-9 oc bracing.

REACTIONS. (size) 14=0-4-0, 8=0-5-8
Max Horz 14=74(LC 14)
Max Grav 14=1235(LC 21), 8=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1181/298, 1-2=-1831/412, 2-3=-2472/540, 3-4=-2113/476, 4-6=-2113/481, 6-7=-799/210, 7-8=-1223/274
BOT CHORD	11-13=-479/1827, 10-11=-597/2466, 9-10=-201/796
WEBS	1-13=-455/2030, 2-13=-831/289, 2-11=-165/725, 3-10=-410/109, 4-10=-465/198, 6-10=-350/1528, 6-9=-1118/333, 7-9=-323/1441

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

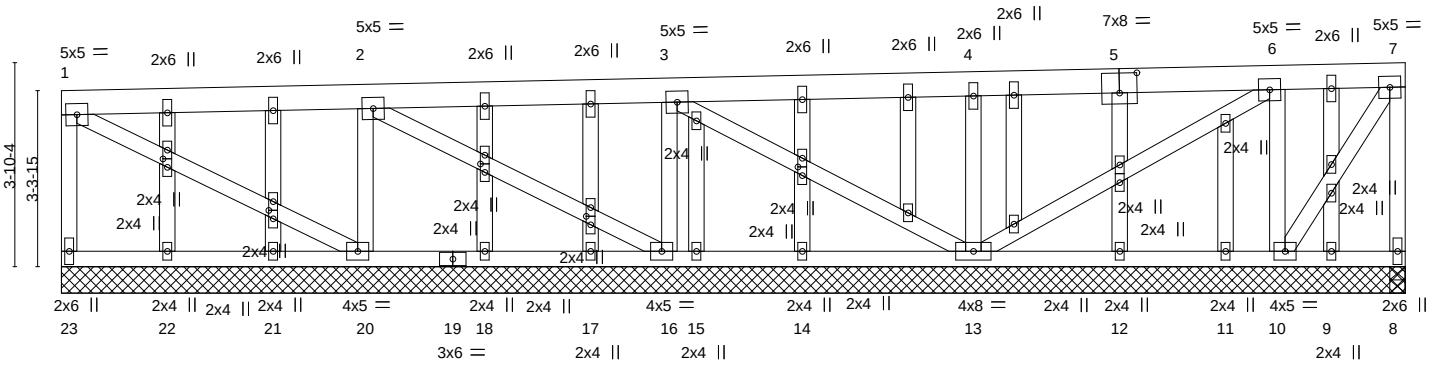
Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T99S	GABLE	1	1	I50511035
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:06:57 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HcTa_5KAzENBCn4cJlDnE7LM0hKE4MU3bUfRnczfIEy

5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

Scale = 1:43.5

0.25 12



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

5-8-15	11-5-14	17-2-13	22-11-12	25-4-12
5-8-15	5-8-15	5-8-15	5-8-15	2-5-0

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [24:0-1-15,0-1-0], [26:0-1-15,0-1-0], [28:0-1-15,0-1-0], [30:0-1-15,0-1-0], [34:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	23	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.00	13-14	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.01	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 207 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-4-13 oc bracing.

REACTIONS. All bearings 25-4-12.
(lb) - Max Horz 23=74(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 20, 16, 13, 9 except 23=-713(LC 44), 8=-875(LC 47), 10=-307(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 8, 22, 21, 18, 17, 15, 14, 12, 11, 9 except 23=782(LC 51), 8=895(LC 64), 20=510(LC 21), 16=446(LC 21), 13=597(LC 21), 10=515(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-754/733, 1-2=-1272/1253, 2-3=-1295/1292, 3-4=-1216/1218, 4-6=-1173/1183, 6-7=-606/604, 7-8=-876/872
BOT CHORD	22-23=-471/458, 21-22=-871/858, 20-21=-1219/1207, 18-20=-391/386, 17-18=-791/786, 16-17=-1089/1084, 14-15=-428/415, 13-14=-1074/1062, 12-13=-1056/1054, 11-12=-503/501, 9-10=-476/474, 8-9=-271/269
WEBS	1-20=-1438/1447, 2-20=-872/818, 2-16=-1327/1329, 3-16=-810/779, 3-13=-1230/1230, 4-13=-468/199, 6-13=-1209/1192, 6-10=-751/728, 7-10=-1043/1040

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 16, 13, 9 except (jt=lb) 23=713, 8=875, 10=307.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-12 for 200.0 plf.

March 2,2022

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T101	Roof Special	1	1	I50511036
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:15 2022 Page 1
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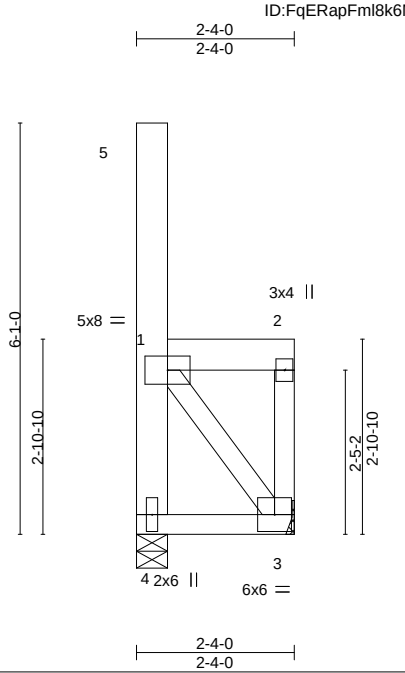

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=176(LC 12)
Max Uplift 4=-293(LC 11), 3=-293(LC 12)
Max Grav 4=351(LC 25), 3=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/878
BOT CHORD 3-4=-308/523
WEBS 1-3=-790/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=293, 3=293.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T102	Roof Special	1	1	I50511037
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:16 2022 Page 1
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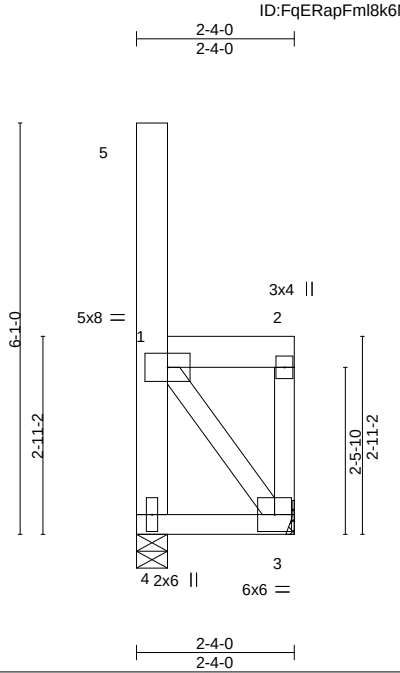

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=175(LC 12)
Max Uplift 4=-293(LC 11), 3=-293(LC 12)
Max Grav 4=351(LC 25), 3=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/875
BOT CHORD 3-4=-305/516
WEBS 1-3=-786/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=293, 3=293.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T103	Roof Special	1	1	I50511038
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:17 2022 Page 1
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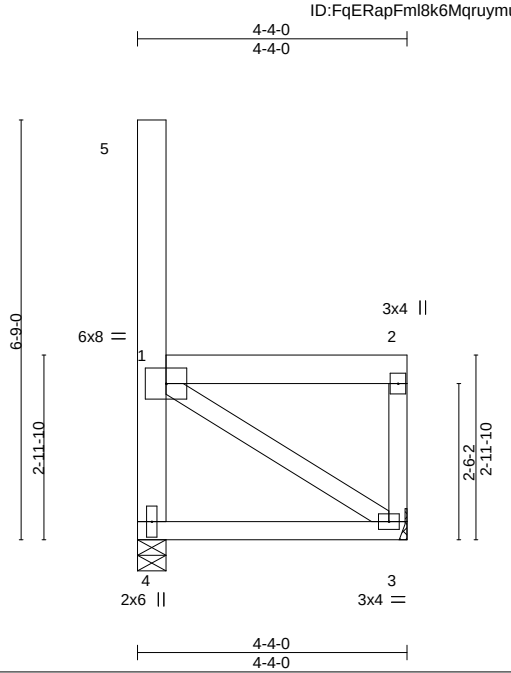

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 40 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-199(LC 11)
Max Uplift 4=-176(LC 11), 3=-176(LC 12)
Max Grav 4=398(LC 25), 3=398(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-358/636, 2-3=-252/153
BOT CHORD 3-4=-406/646
WEBS 1-3=-727/456

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=176, 3=176.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T104	Roof Special	1	1	I50511039
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:17 2022 Page 1
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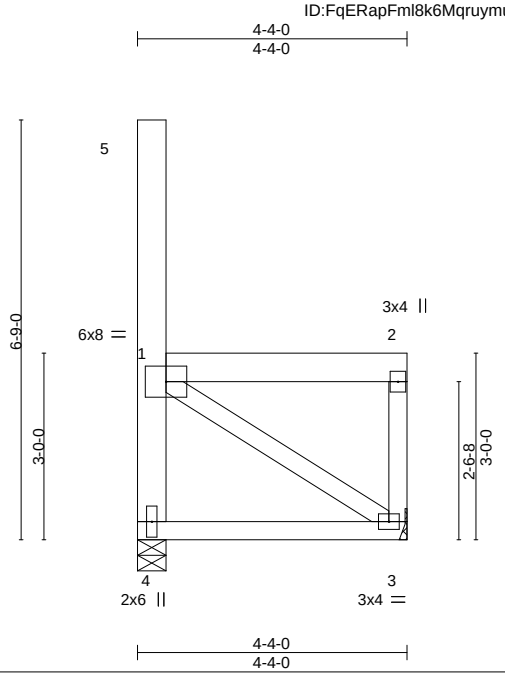

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-198(LC 11)
Max Uplift 4=-176(LC 11), 3=-176(LC 12)
Max Grav 4=398(LC 25), 3=398(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-358/635, 2-3=-253/153
BOT CHORD 3-4=-403/640
WEBS 1-3=-721/453

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=176, 3=176.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T105	Roof Special	1	1	I50511040
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:18 2022 Page 1
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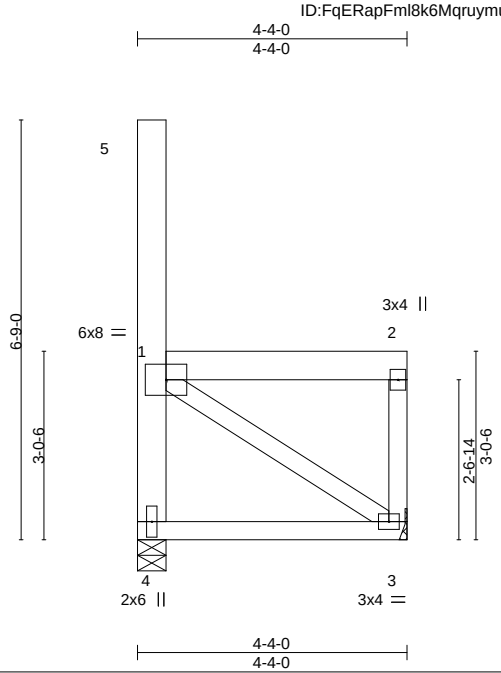

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-198(LC 11)
Max Uplift 4=-176(LC 11), 3=-176(LC 12)
Max Grav 4=398(LC 25), 3=398(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-358/634, 2-3=-253/153
BOT CHORD 3-4=-399/633
WEBS 1-3=-716/450

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=176, 3=176.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T106	Roof Special	1	1	I50511041
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:19 2022 Page 1
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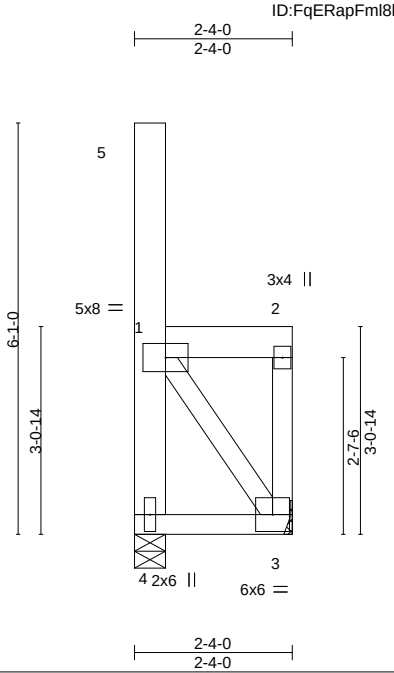

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-173(LC 11)
Max Uplift 4=-290(LC 11), 3=-290(LC 12)
Max Grav 4=349(LC 25), 3=349(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/865
BOT CHORD 3-4=-296/494
WEBS 1-3=-773/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=290, 3=290.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T107	Roof Special	1	1	I50511042
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:20 2022 Page 1
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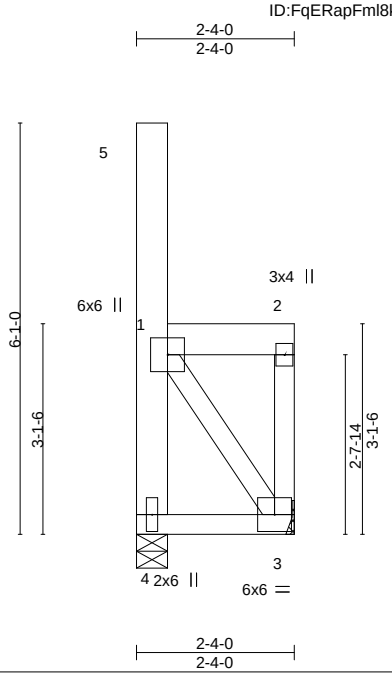

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-172(LC 11)
Max Uplift 4=-289(LC 11), 3=-289(LC 12)
Max Grav 4=348(LC 25), 3=348(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/862
BOT CHORD 3-4=-293/488
WEBS 1-3=-770/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=289, 3=289.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T108	Roof Special	1	1	I50511043
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:21 2022 Page 1
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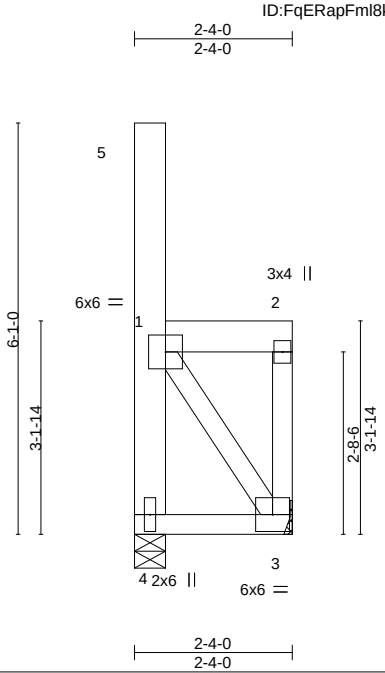

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-172(LC 11)
Max Uplift 4=-288(LC 11), 3=-288(LC 12)
Max Grav 4=348(LC 25), 3=348(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/859
BOT CHORD 3-4=-291/482
WEBS 1-3=-766/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=288, 3=288.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511043
PRYOR-R2A	T108	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T109	Roof Special	1	1	I50511044
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:22 2022 Page 1
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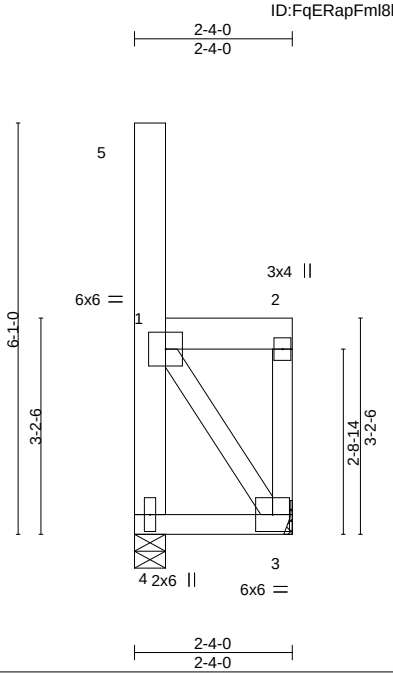

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-171(LC 11)
Max Uplift 4=-287(LC 11), 3=-287(LC 12)
Max Grav 4=347(LC 25), 3=347(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/856
BOT CHORD 3-4=-289/477
WEBS 1-3=-763/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=287, 3=287.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T110	Roof Special	1	1	I50511045
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:25 2022 Page 1
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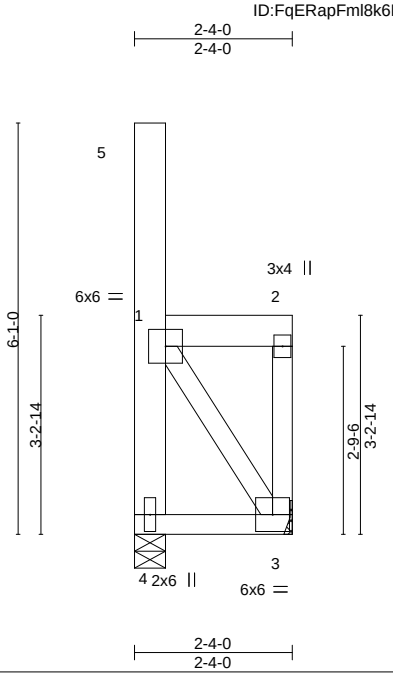

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-170(LC 11)
Max Uplift 4=-286(LC 11), 3=-286(LC 12)
Max Grav 4=346(LC 25), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/853
BOT CHORD 3-4=-286/471
WEBS 1-3=-760/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=286, 3=286.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T111	Roof Special	1	1	I50511046
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:26 2022 Page 1
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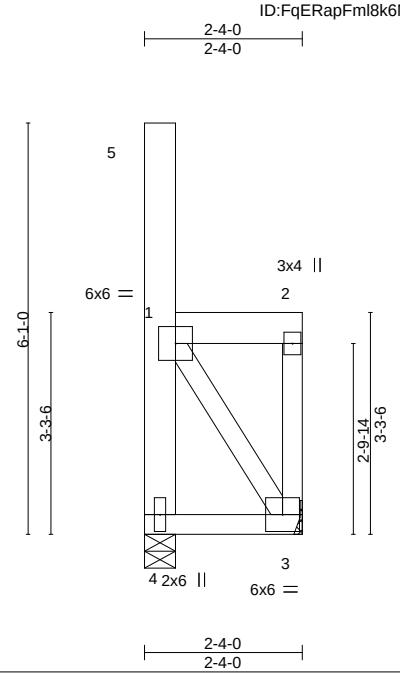

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-170(LC 11)
Max Uplift 4=-286(LC 11), 3=-286(LC 12)
Max Grav 4=346(LC 25), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-381/850
BOT CHORD 3-4=-284/466
WEBS 1-3=-757/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=286, 3=286.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T112	Roof Special	1	1	I50511047
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:26 2022 Page 1
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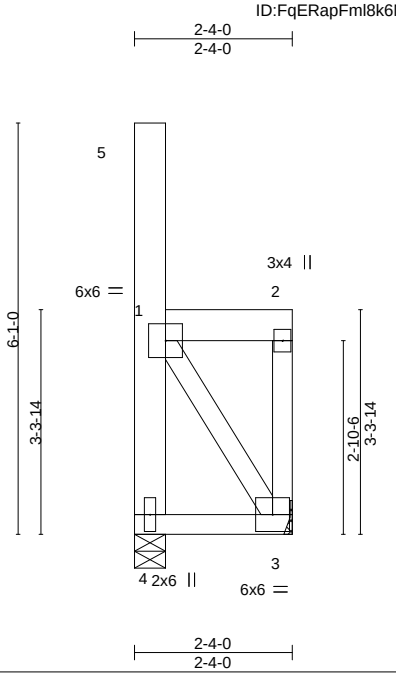

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-169(LC 11)
Max Uplift 4=-285(LC 11), 3=-285(LC 12)
Max Grav 4=345(LC 25), 3=345(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/847
BOT CHORD 3-4=-282/461
WEBS 1-3=-754/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=285, 3=285.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T113	Roof Special	1	1	I50511048
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:27 2022 Page 1
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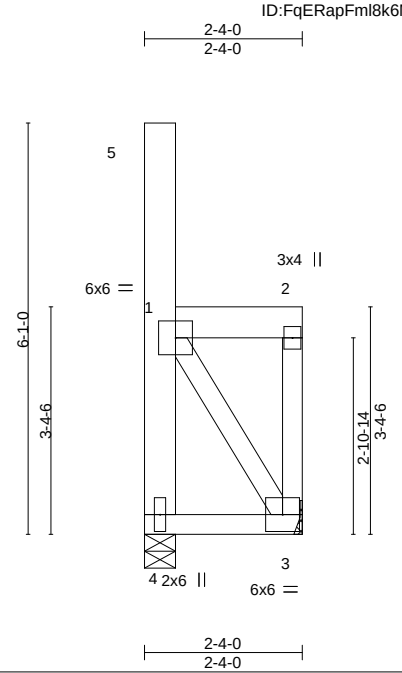

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-169(LC 11)
Max Uplift 4=-284(LC 11), 3=-284(LC 12)
Max Grav 4=344(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/843
BOT CHORD 3-4=-280/456
WEBS 1-3=-751/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=284, 3=284.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T114	Roof Special	1	1	I50511049
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:28 2022 Page 1
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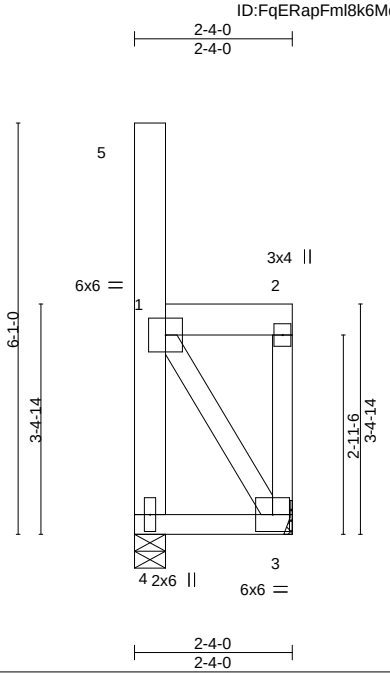

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=168(LC 12)
Max Uplift 4=-283(LC 11), 3=-283(LC 12)
Max Grav 4=344(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-380/840
BOT CHORD	3-4=-278/451
WEBS	1-3=-748/460

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=283, 3=283.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T115	Roof Special	1	1	I50511050
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:29 2022 Page 1
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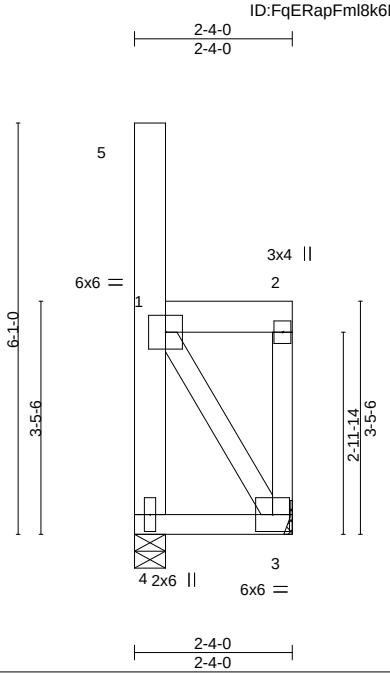

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-168(LC 11)
Max Uplift 4=-282(LC 11), 3=-282(LC 12)
Max Grav 4=343(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/837
BOT CHORD 3-4=-276/446
WEBS 1-3=-745/460

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=282, 3=282.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T116	Roof Special	1	1	I50511051
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:30 2022 Page 1
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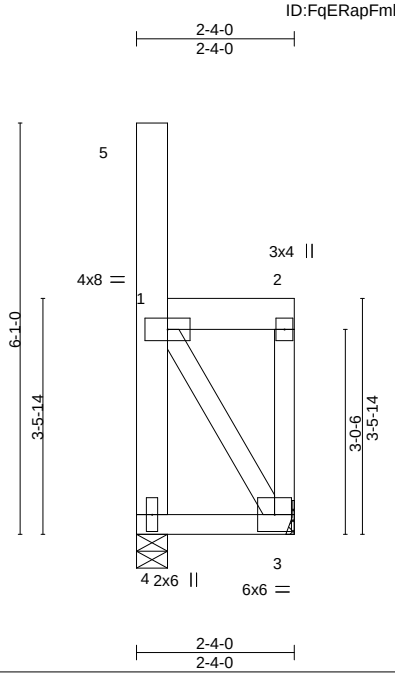

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-167(LC 11)
Max Uplift 4=-281(LC 11), 3=-281(LC 12)
Max Grav 4=342(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/833
BOT CHORD 3-4=-275/441
WEBS 1-3=-743/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=281, 3=281.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T117	Roof Special	1	1	I50511052
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:31 2022 Page 1
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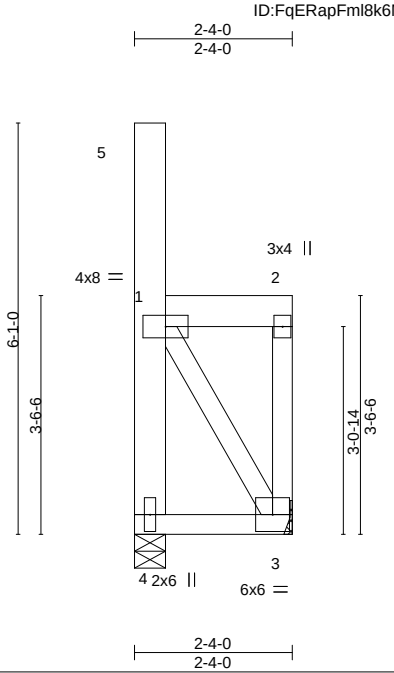

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=166(LC 12)
Max Uplift 4=-280(LC 11), 3=-280(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/830
BOT CHORD 3-4=-273/436
WEBS 1-3=-740/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=280, 3=280.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T118	Roof Special	1	1	I50511053
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:32 2022 Page 1
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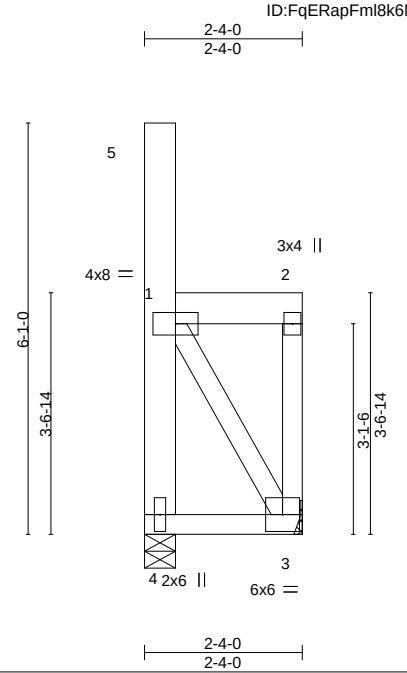

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-166(LC 11)
Max Uplift 4=-279(LC 11), 3=-279(LC 12)
Max Grav 4=341(LC 25), 3=341(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/827
BOT CHORD 3-4=-271/432
WEBS 1-3=-737/461

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=279, 3=279.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T119	Roof Special	1	1	I50511054
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:33 2022 Page 1
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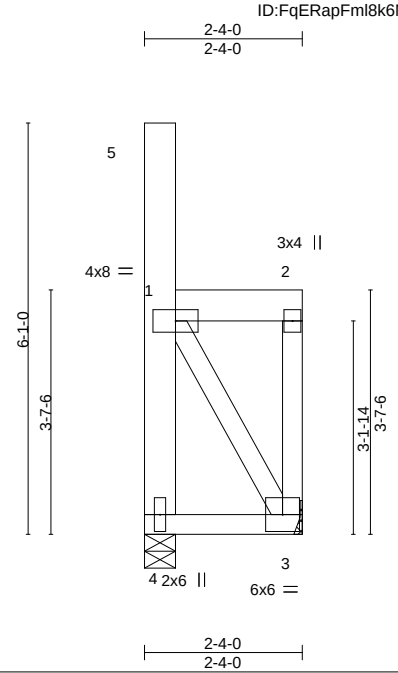

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-278(LC 11), 3=-278(LC 12)
Max Grav 4=340(LC 25), 3=340(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-380/823
BOT CHORD 3-4=-269/428
WEBS 1-3=-734/462

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=278, 3=278.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T120	Roof Special Girder	1	1	I50511055
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:36 2022 Page 1
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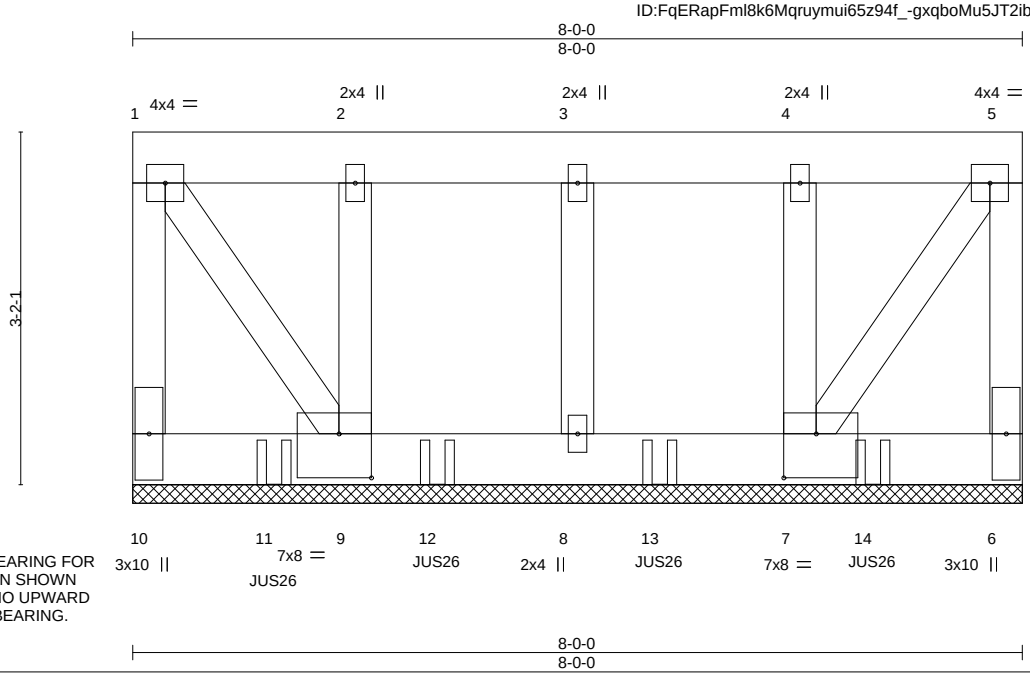

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

Plate Offsets (X,Y)-- [7:0-3-8,0-4-12], [9:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 62 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 10=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 10=-1088(LC 39), 6=-1087(LC 42), 9=-852(LC 42), 7=-891(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 10=1220(LC 60), 6=1212(LC 59), 9=1933(LC 31), 8=837(LC 1), 7=1770(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1140/1142, 1-2=-748/744, 2-3=-407/404, 3-4=-407/404, 4-5=-748/744, 5-6=-1173/1182
BOT CHORD	9-10=-464/475, 8-9=-445/459, 7-8=-445/459, 6-7=-395/405
WEBS	1-9=-1446/1452, 5-7=-1404/1410

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1088 lb uplift at joint 10, 1087 lb uplift at joint 6, 852 lb uplift at joint 9 and 891 lb uplift at joint 7.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-0-0 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 6-7-14 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511055
PRYOR-R2A	T120	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 11=-728(F) 12=-728(F) 13=-728(F) 14=-728(F)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T121	Roof Special Girder	1	1	I50511056
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:40 2022 Page 1
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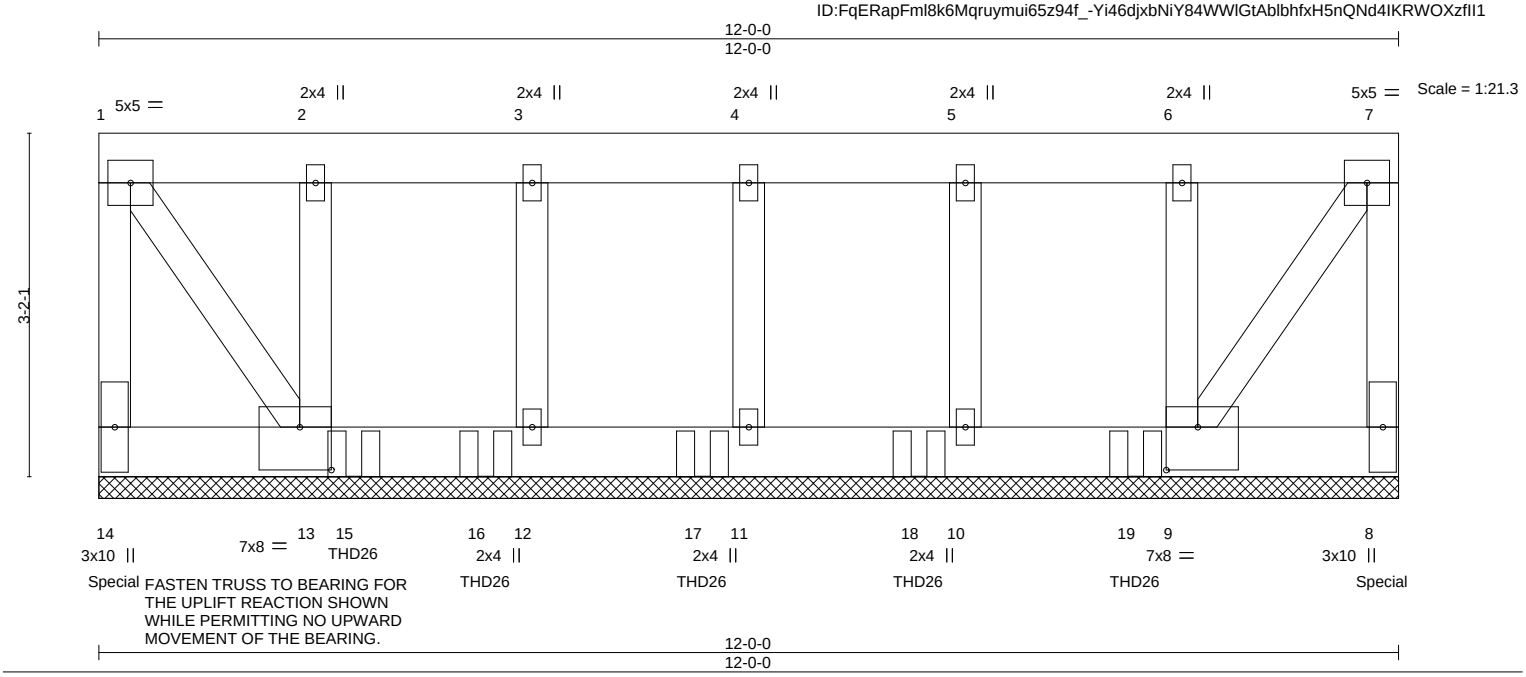

Plate Offsets (X,Y)-- [9:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 88 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 14=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-1546(LC 39), 8=-1627(LC 42), 13=-1439(LC 42), 9=-1491(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 14=2045(LC 60), 8=1857(LC 59), 13=2253(LC 31), 12=1297(LC 1), 11=980(LC 1), 10=1113(LC 1), 9=2114(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1717/1716, 1-2=-1142/1145, 2-3=-809/805, 3-4=-404/411, 4-5=-404/411, 5-6=-809/805, 6-7=-1142/1145, 7-8=-1741/1745
BOT CHORD	13-14=-456/465, 12-13=-840/850, 11-12=-440/450, 10-11=-440/450, 9-10=-840/850, 8-9=-394/401
WEBS	1-13=-2153/2156, 7-9=-2107/2110

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1546 lb uplift at joint 14, 1627 lb uplift at joint 8, 1439 lb uplift at joint 13 and 1491 lb uplift at joint 9.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 12-0-0 for 200.0 plf.
13) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-4 from the left end to 9-6-14 to connect truss(es) to front face of bottom chord.

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March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511056
PRYOR-R2A	T121	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 736 lb down at 0-1-12, and 341 lb down at 11-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 14=-736(F) 8=-341(F) 15=-874(F) 16=-874(F) 17=-874(F) 18=-874(F) 19=-874(F)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T122	Roof Special Girder	1	1	I50511057
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:44 2022 Page 1
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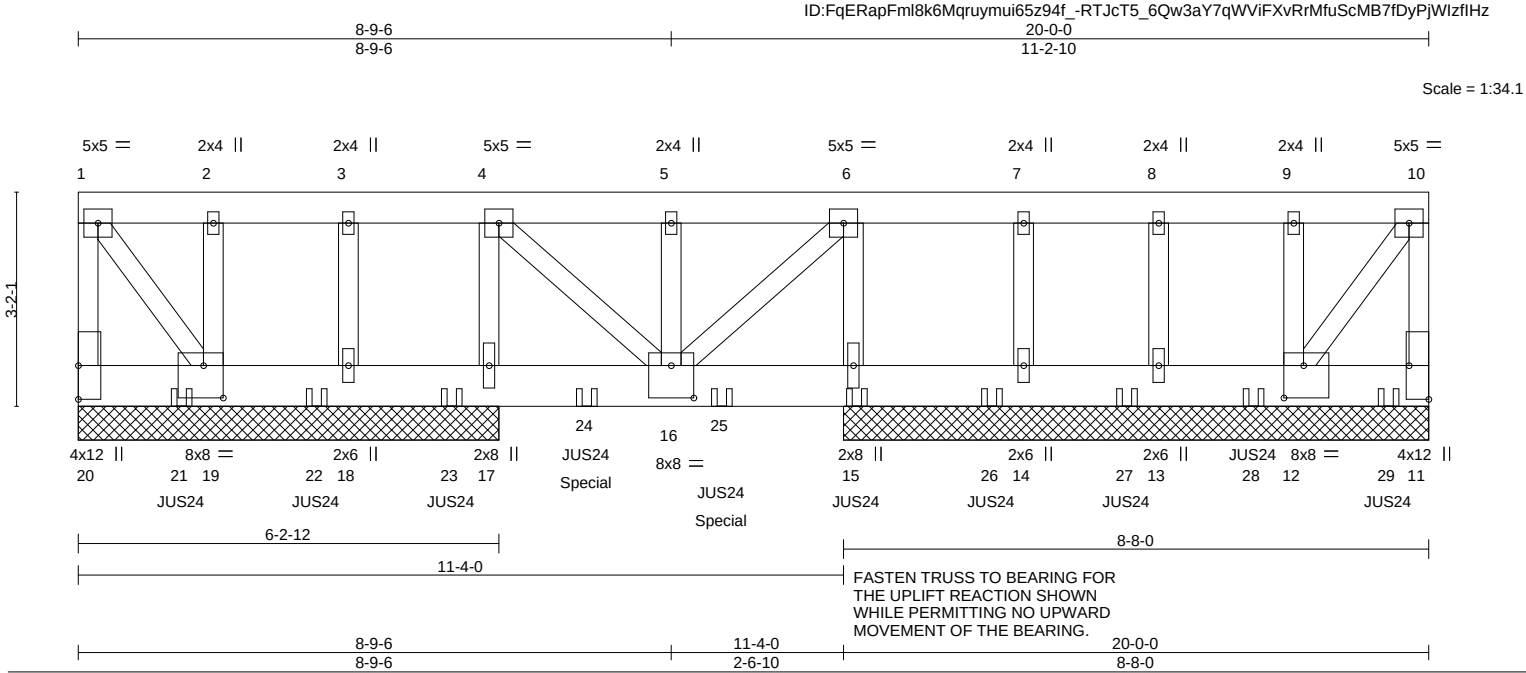

Plate Offsets (X,Y)-- [11:Edge,0-3-8], [12:0-3-8,0-5-12], [16:0-4-0,0-5-12], [19:0-3-8,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	-0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-8-0 except (jt=length) 20=6-2-12, 19=6-2-12, 18=6-2-12, 17=6-2-12.
(lb) - Max Horz 20=-155(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 20=-1108(LC 39), 11=-1219(LC 42), 19=-961(LC 42), 18=-110(LC 33), 12=-1125(LC 39), 17=-461(LC 39), 15=-556(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 14 except 20=1105(LC 46), 11=1351(LC 59), 19=1510(LC 31), 13=631(LC 1), 12=1539(LC 60), 17=3344(LC 32), 15=2996(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1088/1122, 1-2=-730/771, 2-3=-396/424, 3-4=-409/437, 4-5=-1272/533, 5-6=-1008/180, 6-7=-783/813, 7-8=-282/313, 8-9=-525/547, 9-10=-862/893, 10-11=-1264/1299
BOT CHORD	19-20=-670/676, 18-19=-366/345, 17-18=-980/958, 16-17=-980/958, 15-16=-1398/1369, 14-15=-1398/1369, 13-14=-668/638, 12-13=-439/410, 11-12=-520/523
WEBS	4-17=-1804/937, 6-15=-1828/992, 4-16=-1313/2301, 6-16=-1370/2309, 1-19=-1416/1369, 10-12=-1610/1543

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 20=1108, 11=1219, 19=961, 18=110, 12=1125, 17=461, 15=556.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-2-12, 11-4-0 to 20-0-0 for 268.5 plf.

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MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511057
PRYOR-R2A	T122	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-6 from the left end to 19-4-14 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-10=-70, 11-20=-20
   Concentrated Loads (lb)
   Vert: 15=-333(F) 21=-333(F) 22=-333(F) 23=-333(F) 24=-1679(F=-333, B=-1345) 25=-1679(F=-333, B=-1345) 26=-333(F) 27=-333(F) 28=-333(F) 29=-339(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T123	Roof Special Girder	1	1	I50511058
					Job Reference (optional)

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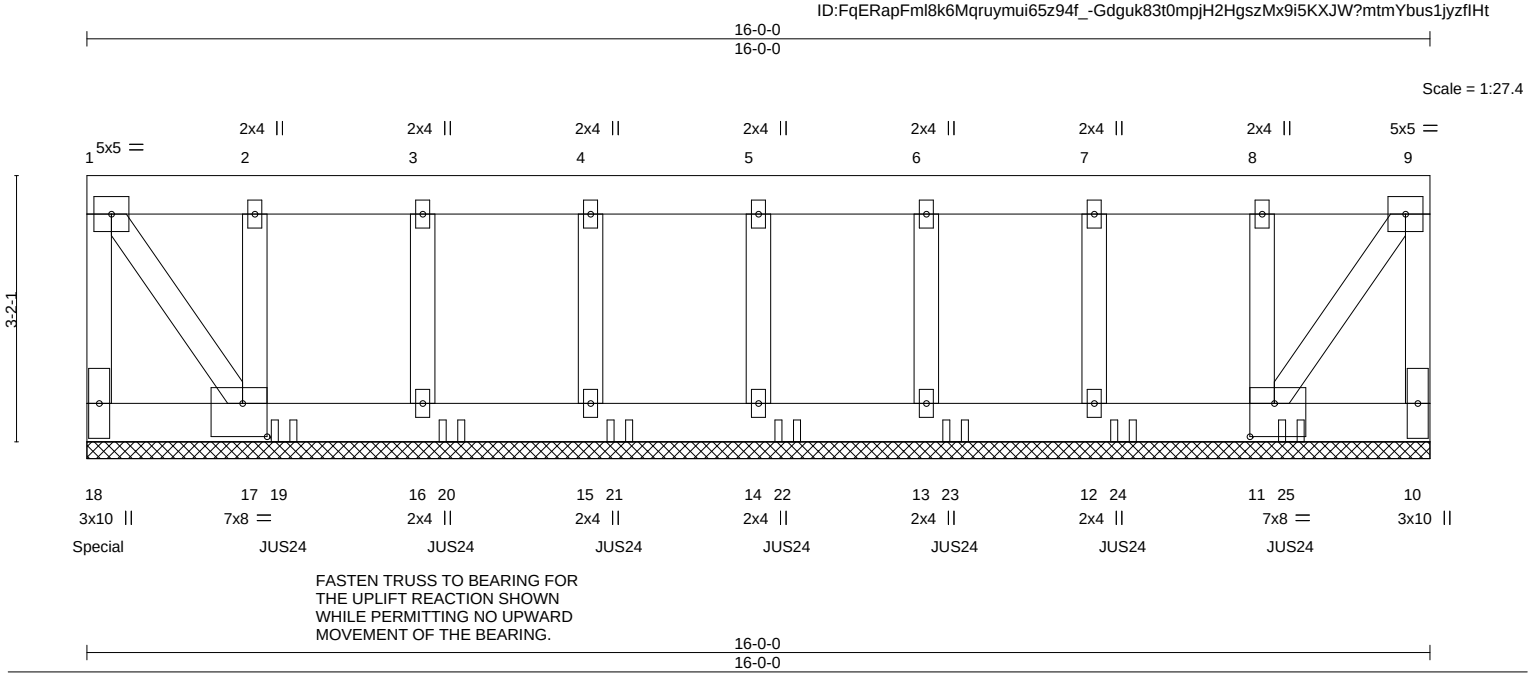

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 18=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-2204(LC 39), 10=-2261(LC 42), 17=-2168(LC 42), 11=-2137(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2450(LC 60), 10=2304(LC 59), 17=2461(LC 59), 16=526(LC 1), 15=510(LC 1), 14=514(LC 1), 13=515(LC 1), 12=505(LC 1), 11=2503(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-2294/2290, 1-2=-1544/1545, 2-3=-1210/1211, 3-4=-805/811, 4-5=-410/411, 5-6=-410/411, 6-7=-805/811, 7-8=-1210/1211, 8-9=-1544/1545, 9-10=-2310/2312
BOT CHORD	17-18=-451/458, 16-17=-1236/1244, 15-16=-836/844, 14-15=-436/444, 13-14=-436/444, 12-13=-836/844, 11-12=-1236/1244, 10-11=-394/399
WEBS	1-17=-2861/2862, 9-11=-2812/2813

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2204 lb uplift at joint 18, 2261 lb uplift at joint 10, 2168 lb uplift at joint 17 and 2137 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-0-0 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-3 from the left end to 14-4-3 to connect truss(es) to front face of bottom chord.

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March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511058
PRYOR-R2A	T123	Roof Special Girder	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-341(F) 19=-333(F) 20=-333(F) 21=-333(F) 22=-333(F) 23=-333(F) 24=-333(F) 25=-333(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T124	GABLE	1	1	I50511059
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:54 2022 Page 1
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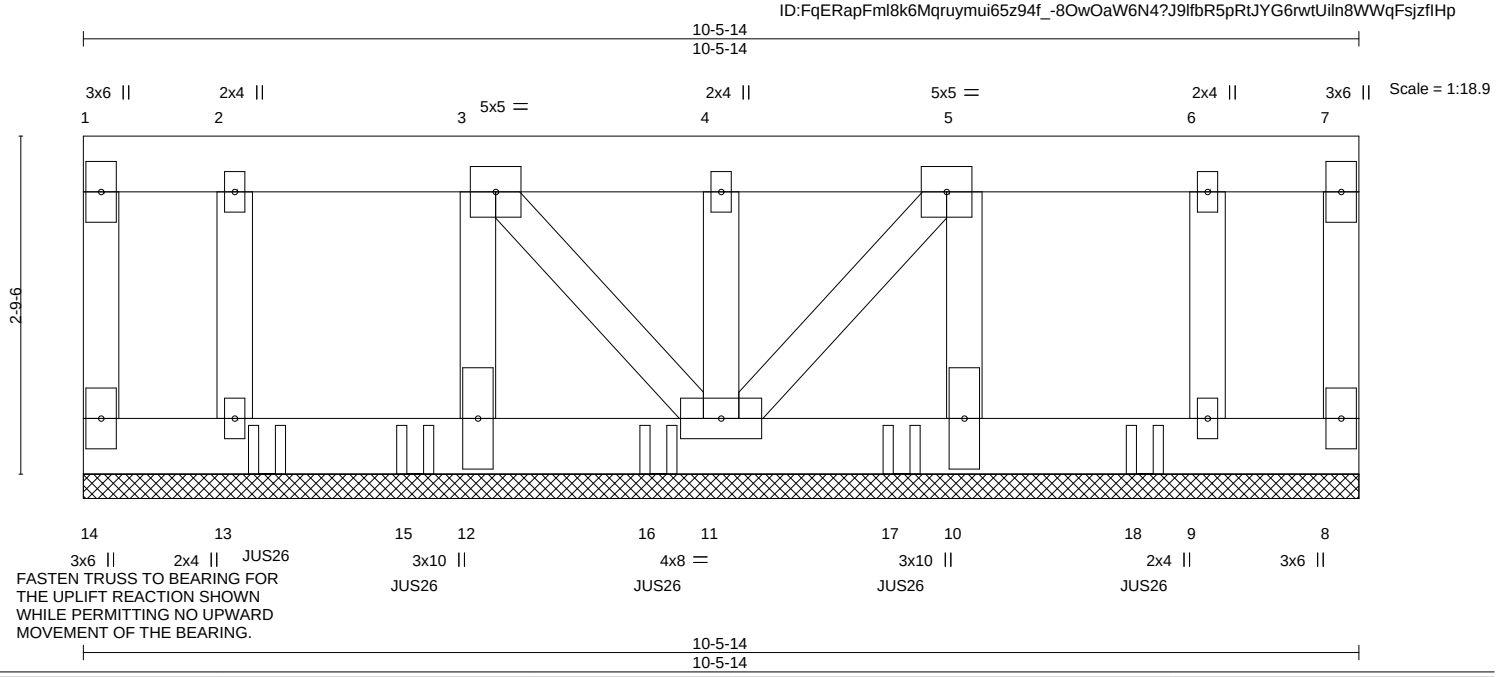

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 76 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-5-14.
(lb) - Max Horz 14=-50(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 8=-118(LC 33), 12=-865(LC 39), 10=-875(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 14, 8 except 11=1101(LC 1), 12=1787(LC 32), 13=1253(LC 1), 10=1750(LC 31), 9=889(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-249/257, 2-3=-649/657, 3-4=-419/420, 4-5=-419/420, 5-6=-640/647
BOT CHORD	13-14=-295/303, 12-13=-695/703, 11-12=-1095/1103, 10-11=-1040/1047, 9-10=-640/647
WEBS	3-12=-1138/1142, 5-10=-1183/1202, 3-11=-1637/1647, 5-11=-1597/1588

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=118, 12=865, 10=875.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-5-14 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-2 from the left end to 8-8-12 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

March 2,2022

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511059
PRYOR-R2A	T124	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 13=-874(B) 15=-874(B) 16=-874(B) 17=-874(B) 18=-874(B)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T125	GABLE	1	1	I50511060
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:03:56 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-4n19_C8dccZt?zkpCETLOzLR9kWcAbAQzpJLxczflHn

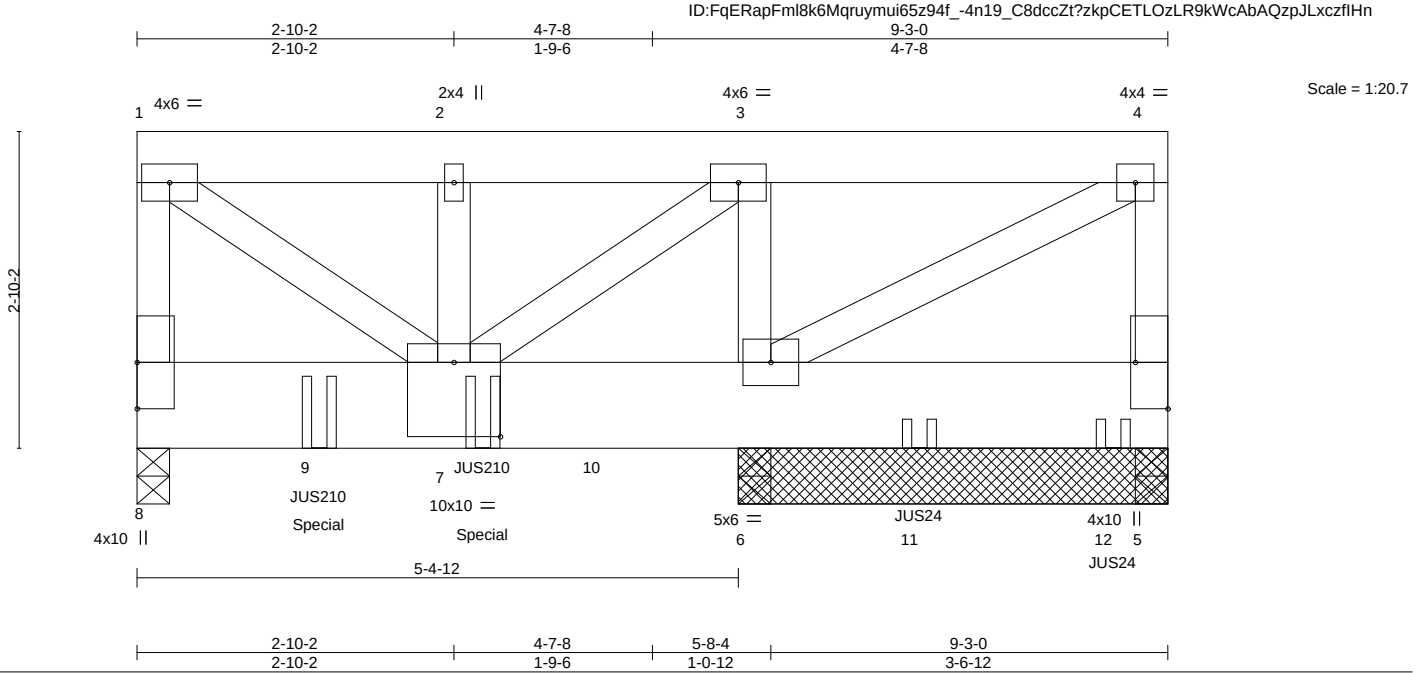

Plate Offsets (X,Y)-- [5:Edge,0-3-8], [7:0-5-0,0-8-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.02	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.03	7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 82 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 3-10-4 except (jt=length) 8=0-3-8.
(lb) - Max Horz 8=-129(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 5=-386(LC 44)
Max Grav All reactions 250 lb or less at joint(s) except 8=2893(LC 1), 5=760(LC 33), 5=476(LC 1), 6=5149(LC 1), 6=5149(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1756/470, 1-2=-1910/472, 2-3=-1913/476, 3-4=-581/681, 4-5=-417/505
BOT CHORD 6-7=-1152/1042, 5-6=-1729/1731
WEBS 3-6=-2114/630, 1-7=-642/2530, 3-7=-688/2751, 4-6=-888/747

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 5.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 5-4-12 to 9-3-0 for 480.0 plf.
11) Use USP JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-5-10 oc max. starting at 1-7-10 from the left end to 3-1-4 to connect truss(es) to front face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-8-14 oc max. starting at 7-0-4 from the left end to 8-9-2 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1396 lb down and 640 lb up at 4-2-0, and 750 lb down and 344 lb up at 4-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Continued on page 2

LOAD CASE(S) Standard

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T125	GABLE	1	1	I50511060 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 5-8=-20
   Concentrated Loads (lb)
   Vert: 7=-2083(F=-1355, B=-728) 9=-2083(F=-1355, B=-728) 10=-2083(F=-1355, B=-728) 11=-728(B) 12=-735(B)

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Chesterfield, MO 63017

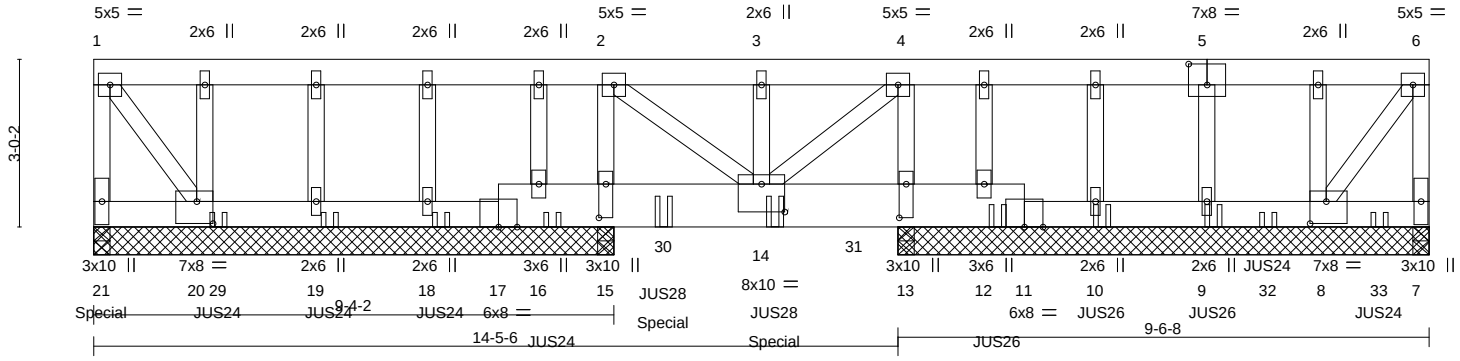
Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T126	GABLE	1	1	I50511061
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:00 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-zYHgqZB8fr4ITa2bR4XHZoW2VLvM6Qp0uRHZ4NzfIHj

7-11-6 | 11-11-15 | 16-0-8 | 23-11-14
7-11-6 | 4-0-9 | 4-0-9 | 7-11-6

Scale = 1:41.4



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-11-6 | 9-0-10 | 11-11-15 | 14-8-14 | 16-0-8 | 23-11-14
7-11-6 | 1-1-4 | 2-11-5 | 2-8-15 | 1-3-10 | 7-11-6

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [8:0-3-8,0-4-12], [13:0-7-4,0-1-8], [14:0-5-0,0-6-0], [15:0-7-4,0-1-8], [20:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.01	14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	14	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 182 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
11-17: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-4-2 except (jt=length) 7=9-6-8, 7=9-6-8, 13=9-6-8, 13=9-6-8, 12=9-6-8, 10=9-6-8, 9=9-6-8, 8=9-6-8.
(lb) - Max Horz 21=-144(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 21=-1366(LC 39), 7=-1397(LC 42), 16=-864(LC 1), 20=-1311(LC 42), 15=-451(LC 39), 13=-767(LC 42), 12=-770(LC 1), 8=-1270(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 21=1623(LC 60), 21=478(LC 1), 7=1524(LC 59), 7=292(LC 1), 18=463(LC 1), 19=418(LC 1), 20=1642(LC 59), 15=4473(LC 32), 15=4097(LC 1), 13=4777(LC 31), 13=4409(LC 1), 10=462(LC 1), 9=513(LC 1), 8=1689(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1426/1442, 1-2=-929/948, 2-3=-977/441, 3-4=-887/320, 4-6=-936/952, 6-7=-1459/1480
BOT CHORD 20-21=-596/601, 19-20=-460/444, 18-19=-693/677, 16-18=-1191/1174, 15-16=-1506/1491, 14-15=-1506/1491, 13-14=-1457/1435, 12-13=-1457/1435, 10-12=-1083/1066, 9-10=-593/571, 8-9=-534/512, 7-8=-461/468
WEBS 2-15=-2069/1435, 4-13=-2150/1476, 3-14=-162/449, 2-14=-1725/2385, 4-14=-1674/2358, 1-20=-1761/1724, 6-8=-1720/1670

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1366 lb uplift at joint 21, 1397 lb uplift at joint 7, 864 lb uplift at joint 16, 1311 lb uplift at joint 20, 451 lb uplift at joint 15, 767 lb uplift at joint 13, 770 lb uplift at joint 12 and 1270 lb uplift at joint 8.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511061
PRYOR-R2A	T126	GABLE	1	1	Job Reference (optional)

NOTES-

9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-2, 14-5-6 to 23-11-14 for 254.1 plf.
11) Use USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-2-14 from the left end to 12-2-14 to connect truss(es) to front face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 12-10-5 oc max. starting at 2-2-14 from the left end to 23-1-3 to connect truss(es) to back face of bottom chord.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 16-2-14 from the left end to 20-1-6 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 342 lb down at 0-1-12, and 1657 lb down and 400 lb up at 13-8-0, and 344 lb down and 83 lb up at 13-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 7-21=-20
Concentrated Loads (lb)
Vert: 21=-342(B) 16=-333(B) 18=-333(B) 19=-333(B) 14=-1564(F=-1231, B=-333) 12=-333(B) 10=-333(B) 9=-333(B) 29=-333(B) 30=-1564(F=-1231, B=-333) 31=-1941(F=-1608, B=-333) 32=-333(B) 33=-336(B)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T127	GABLE	1	1	I50511062
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:04 2022 Page 1
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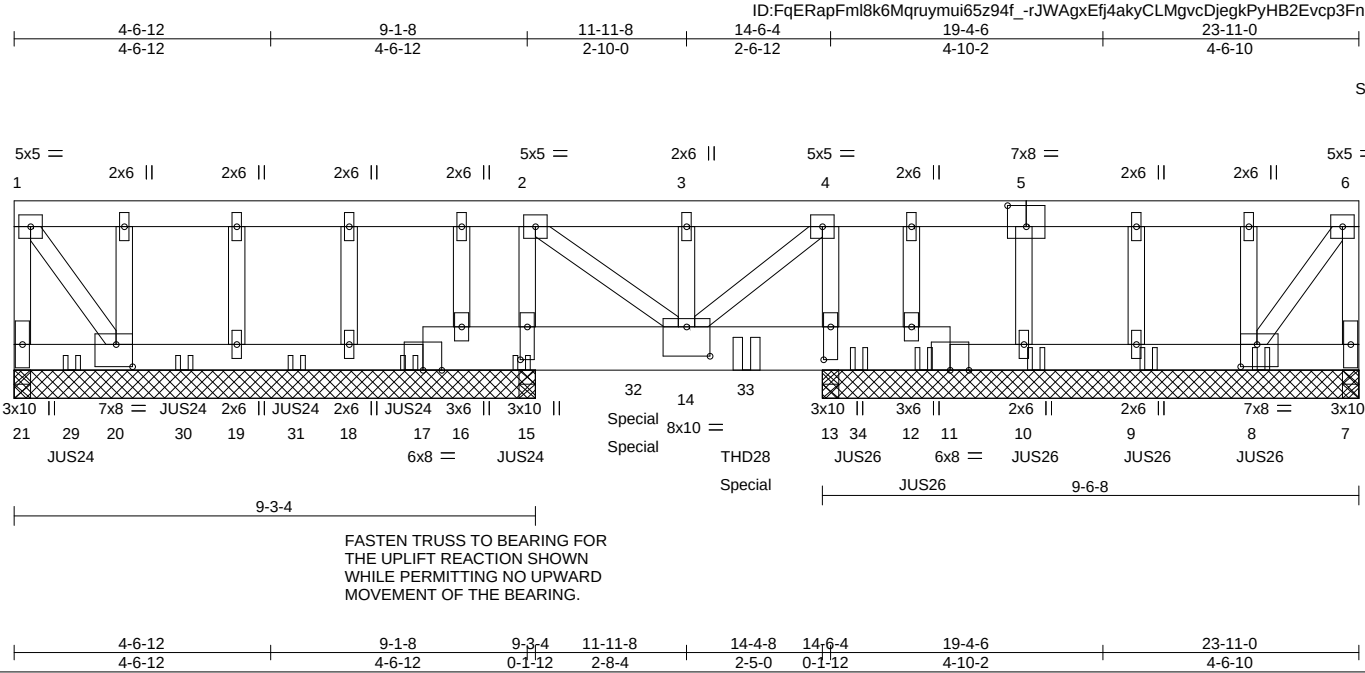

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [8:0-3-8,0-4-12], [13:0-7-0,0-1-8], [14:0-5-0,0-6-4], [15:0-7-0,0-1-8], [20:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.01	14	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	14	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	-0.00	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 181 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
11-17: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-3-4 except (jt=length) 7=9-6-8, 7=9-6-8, 13=9-6-8, 13=9-6-8, 12=9-6-8, 10=9-6-8, 9=9-6-8, 8=9-6-8.
(lb) - Max Horz 21=-72(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 21=-1409(LC 39), 7=-1445(LC 42), 15=-575(LC 39), 13=-358(LC 42), 16=-604(LC 1), 20=-1288(LC 42), 8=-1213(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 7, 12 except 21=1510(LC 60), 21=271(LC 1), 7=1478(LC 59), 15=3798(LC 32), 15=3319(LC 1), 13=4615(LC 31), 13=4262(LC 1), 18=383(LC 1), 19=385(LC 1), 20=1660(LC 59), 10=819(LC 1), 9=714(LC 1), 8=1847(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1424/1437, 1-2=-909/925, 2-3=-1005/542, 3-4=-893/393, 4-6=-939/953, 6-7=-1483/1501
BOT CHORD 20-21=-520/526, 19-20=-513/501, 18-19=-664/652, 16-18=-1157/1168, 15-16=-1482/1470, 14-15=-1482/1470, 13-14=-1505/1489, 12-13=-1505/1489, 10-12=-1124/1107, 9-10=-617/601, 8-9=-527/455, 7-8=-459/465
WEBS 2-15=-2014/1365, 2-14=-1874/2358, 3-14=-152/438, 4-14=-1783/2320, 4-13=-2124/1405, 1-20=-1729/1695, 6-8=-1725/1670

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 21=1409, 7=1445, 15=575, 13=358, 16=604, 20=1288, 8=1213.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T127	GABLE	1	1	I50511062 Job Reference (optional)

NOTES-

10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-1-8, 14-6-4 to 23-11-0 for 258.3 plf.
11) Use USP THD28 (With 28-16d nails into Girder & 16-10d x 1-1/2 nails into Truss) or equivalent at 13-0-5 from the left end to connect truss(es) to front face of bottom chord.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-5 from the left end to 9-0-5 to connect truss(es) to back face of bottom chord.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 15-0-5 from the left end to 22-2-2 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1215 lb down at 11-0-5, and 333 lb down at 11-0-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 7-21=-20
   Concentrated Loads (lb)
   Vert: 17=-333(B) 15=-333(B) 12=-688(B) 10=-688(B) 9=-688(B) 8=-688(B) 29=-335(B) 30=-333(B) 31=-333(B) 32=-1548(F=-1215, B=-333) 33=-2255(F=-1567, B=-688) 34=-688(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T128	GABLE	1	1	I50511063
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:08 2022 Page 1
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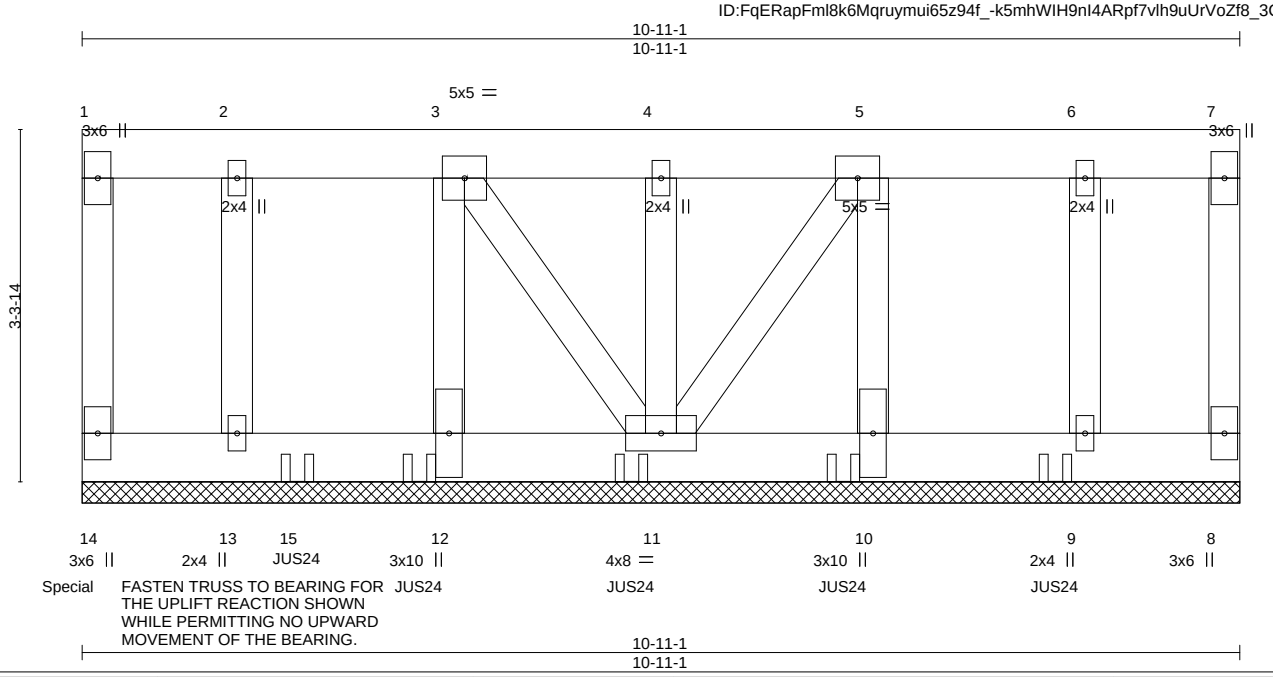

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 85 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-11-1.
(lb) - Max Horz 14=-61(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 12=-1177(LC 39), 10=-1222(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 8 except 14=648(LC 1), 11=909(LC 1), 12=1945(LC 32), 13=786(LC 32), 10=1817(LC 59), 9=843(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-298/308, 2-3=-698/708, 3-4=-416/419, 4-5=-416/419, 5-6=-687/696, 6-7=-287/296
BOT CHORD 13-14=-355/365, 12-13=-755/765, 11-12=-1118/1165, 10-11=-1087/1096, 9-10=-687/696, 8-9=-287/296
WEBS 3-12=-1427/1413, 5-10=-1484/1500, 3-11=-1952/1964, 5-11=-1901/1891

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=1177, 10=1222.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-11-1 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-6 from the left end to 9-2-3 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 699 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511063
PRYOR-R2A	T128	GABLE	1	1	Job Reference (optional)

NOTES-

16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 14=-699(F) 11=-688(F) 12=-688(F) 10=-688(F) 9=-688(F) 15=-688(F)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T129	GABLE	1	1	I50511064
					Job Reference (optional)

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18-10-0
18-10-0

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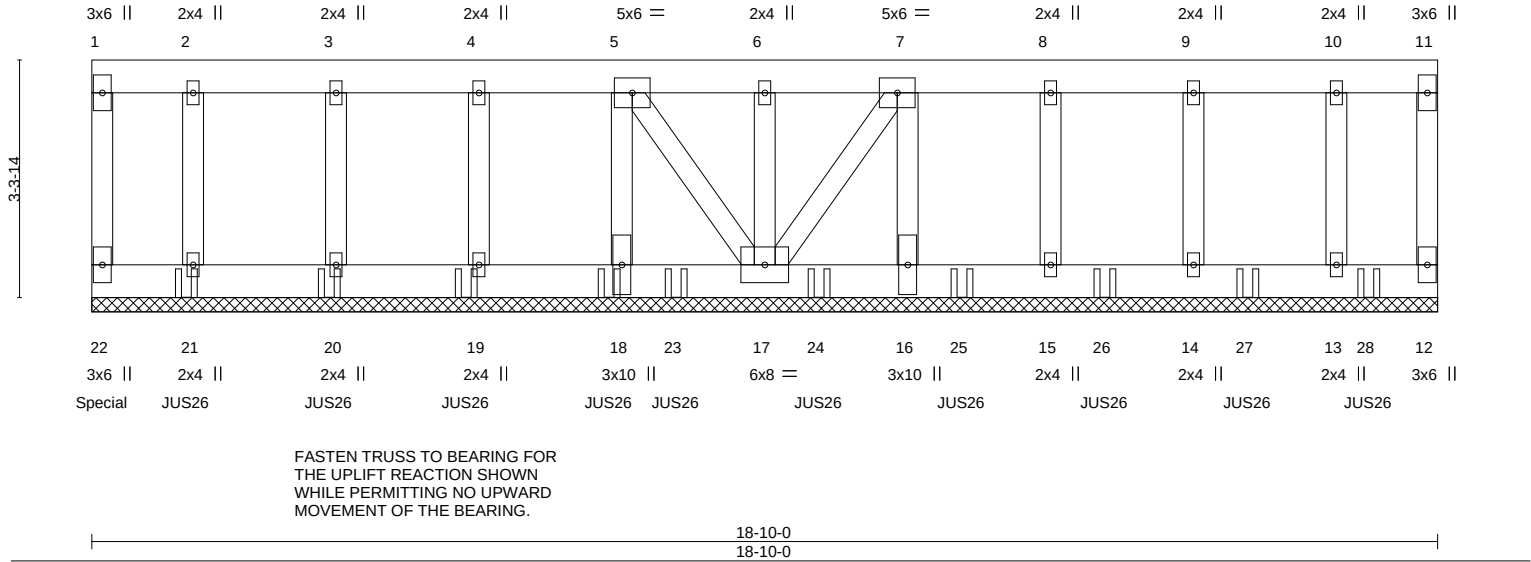

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

18-10-0
18-10-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 136 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-8-2 oc bracing.

REACTIONS. All bearings 18-10-0.
(lb) - Max Horz 22=-61(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 15 except 18=-2154(LC 39), 16=-2262(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 12 except 22=740(LC 1), 17=1014(LC 1), 18=3061(LC 60), 19=854(LC 32), 20=896(LC 1), 21=839(LC 1), 16=2834(LC 59), 15=920(LC 31), 14=884(LC 1), 13=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-287/294, 2-3=-687/694, 3-4=-1087/1094, 4-5=-1487/1494, 5-6=-411/417, 6-7=-411/417, 7-8=-1479/1482, 8-9=-1079/1082, 9-10=-679/672, 10-11=-279/282
BOT CHORD	21-22=-335/342, 20-21=-735/742, 19-20=-1095/1102, 18-19=-1535/1542, 17-18=-1935/1942, 16-17=-1879/1882, 15-16=-1479/1482, 14-15=-1079/1082, 13-14=-679/682, 12-13=-279/282
WEBS	5-18=-2459/2445, 4-19=-286/288, 7-16=-2508/2508, 8-15=-293/295, 5-17=-3326/3327, 7-17=-3283/3273

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 15 except (jt=lb) 18=2154, 16=2262.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-10-0 for 200.0 plf.
13) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-14 from the left end to 17-10-7 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

March 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511064
PRYOR-R2A	T129	GABLE	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 698 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 22=-698(F) 18=-688(F) 19=-688(F) 20=-688(F) 21=-688(F) 23=-688(F) 24=-688(F) 25=-688(F) 26=-688(F) 27=-688(F) 28=-690(F)

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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T130	GABLE	1	1	I50511065
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:16 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-VdFjB1NAum51O2GfNRq1CAAlyoNDsgGNax9PeRzfIHT

3-4-3	6-8-7	10-0-10	12-9-0	15-5-6	18-10-0
3-4-3	3-4-3	3-4-3	2-8-6	2-8-6	3-4-10

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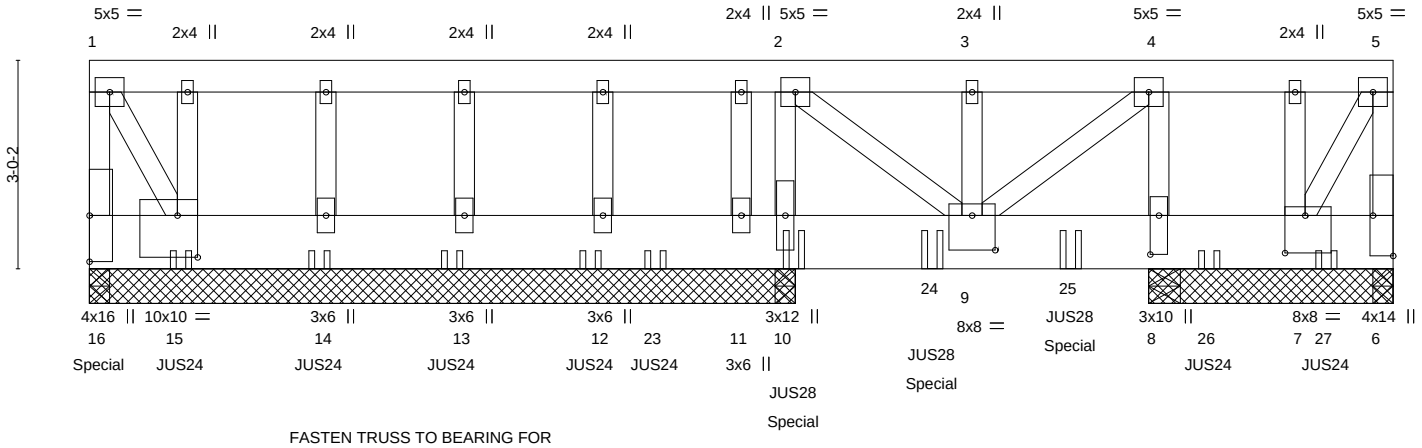

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

3-4-3	6-8-7	10-0-10	10-2-6	12-9-0	15-3-10	15-5-6	18-10-0
3-4-3	3-4-3	3-4-3	0-1-12	2-6-10	2-6-10	0-1-12	3-4-10

Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-8,0-6-8], [8:0-6-12,0-1-8], [9:0-4-0,0-6-0], [15:0-3-8,0-7-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.01	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	9	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.01	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 162 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-2-6 except (jt=length) 6=3-6-6, 6=3-6-6, 7=3-6-6, 8=0-5-8, 8=0-5-8.
(lb) - Max Horz 16=-153(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-1318(LC 39), 6=-829(LC 42), 11=-1506(LC 1), 15=-1254(LC 42), 7=-900(LC 39), 8=-372(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 16=1858(LC 60), 16=870(LC 1), 6=1044(LC 59), 6=306(LC 1), 10=6029(LC 32), 10=5973(LC 1), 12=1327(LC 1), 13=610(LC 1), 14=761(LC 1), 15=1861(LC 59), 7=963(LC 60), 8=4065(LC 31), 8=3628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1515/1551, 1-2=-1309/1334, 2-3=-921/399, 3-4=-1329/939, 4-5=-364/383, 5-6=-883/925
BOT CHORD 15-16=-475/478, 14-15=-380/362, 13-14=-874/856, 12-13=-1477/1459, 11-12=-1971/1953, 10-11=-2200/2183, 9-10=-2200/2183, 8-9=-517/491, 7-8=-517/491, 6-7=-298/298
WEBS 2-10=-2114/1415, 2-9=-1680/2242, 3-9=-84/291, 4-9=-1524/2133, 4-8=-1656/1081, 1-15=-1659/1625, 5-7=-1030/969

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1318 lb uplift at joint 16, 829 lb uplift at joint 6, 1506 lb uplift at joint 11, 1254 lb uplift at joint 15, 900 lb uplift at joint 7 and 372 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-2-6, 15-3-10 to 18-10-0 for 274.4 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511065
PRYOR-R2A	T130	GABLE	1	1	Job Reference (optional)

NOTES-

12) Use USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-2-2 from the left end to 14-2-2 to connect truss(es) to front face of bottom chord.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 8-0-0 oc max. starting at 1-3-14 from the left end to 17-10-7 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 698 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-16=-20
   Concentrated Loads (lb)
   Vert: 16=-698(B) 10=-1903(F=-1215, B=-688) 12=-688(B) 13=-688(B) 14=-688(B) 15=-688(B) 23=-688(B) 24=-1903(F=-1215, B=-688) 25=-1903(F=-1215, B=-688) 26=-688(B) 27=-690(B)

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T131	GABLE	1	1	I50511066
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:21 2022 Page 1
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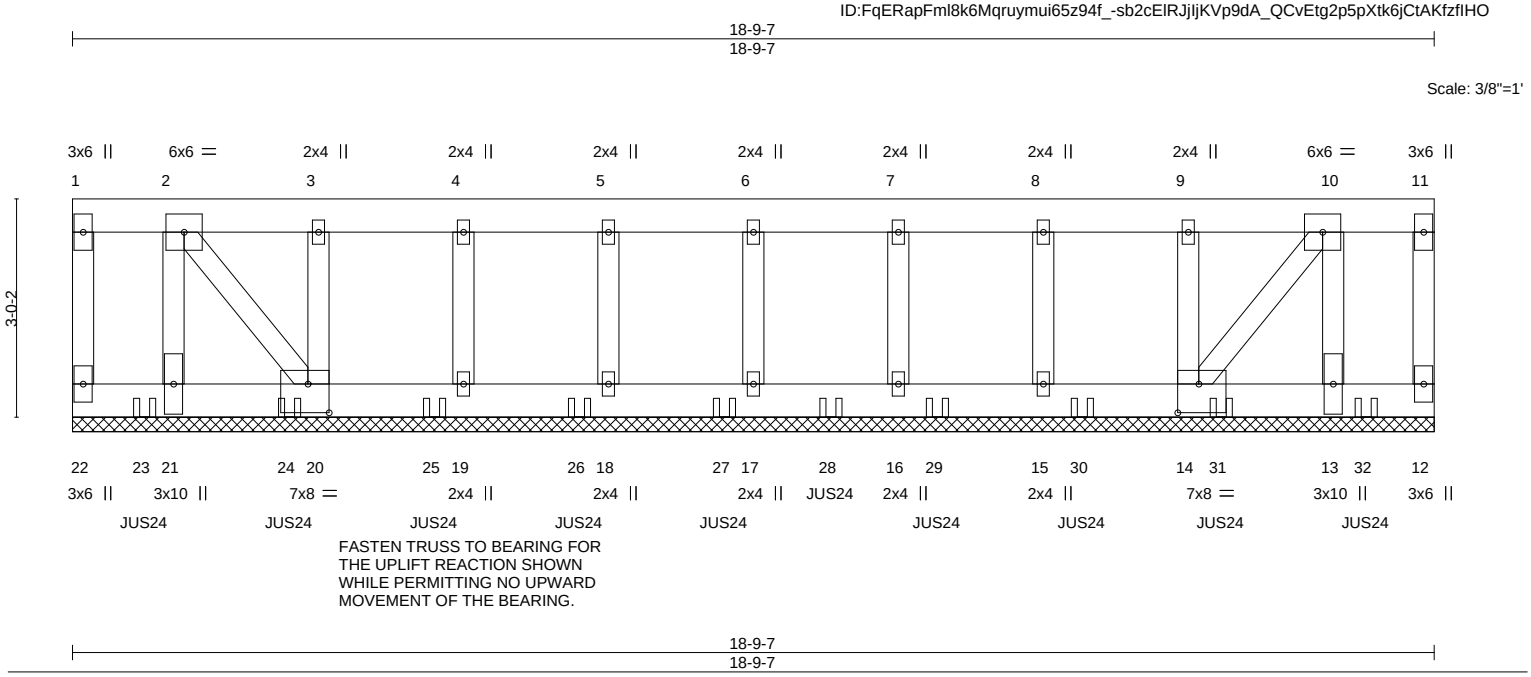

Plate Offsets (X,Y)-- [14:0-3-8,0-4-12], [20:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	-0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 130 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-9-7.
(lb) - Max Horz 22=-55(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 22=-137(LC 39), 12=-129(LC 42), 20=-1999(LC 42), 21=-1882(LC 39), 14=-1978(LC 39), 13=-1876(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 22=277(LC 32), 12=301(LC 31), 17=1067(LC 1), 18=832(LC 1), 19=877(LC 1), 20=2603(LC 59), 21=2462(LC 60), 16=1089(LC 1), 15=837(LC 1), 14=2625(LC 60), 13=2453(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-279/285, 2-3=-1612/1618, 3-4=-1212/1218, 4-5=-812/818, 5-6=-412/418, 6-7=-412/418, 7-8=-812/818, 8-9=-1212/1218, 9-10=-1612/1618, 10-11=-271/274
BOT CHORD	21-22=-322/328, 20-21=-722/728, 19-20=-1236/1232, 18-19=-836/832, 17-18=-436/432, 16-17=-436/431, 15-16=-836/831, 14-15=-1236/1231, 13-14=-671/674, 12-13=-271/274
WEBS	3-20=-290/292, 2-21=-2082/2068, 9-14=-297/298, 10-13=-2111/2111, 2-20=-3075/3076, 10-14=-3023/3018

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 22, 129 lb uplift at joint 12, 1999 lb uplift at joint 20, 1882 lb uplift at joint 21, 1978 lb uplift at joint 14 and 1876 lb uplift at joint 13.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-9-7 for 200.0 plf.

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511066
PRYOR-R2A	T131	GABLE	1	1	Job Reference (optional)

NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-15 from the left end to 17-10-3 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 12-22=-20
   Concentrated Loads (lb)
   Vert: 23=-689(B) 24=-688(B) 25=-688(B) 26=-688(B) 27=-688(B) 28=-688(B) 29=-688(B) 30=-688(B) 31=-688(B) 32=-690(B)

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T132	GABLE	1	1	I50511067
					Job Reference (optional)

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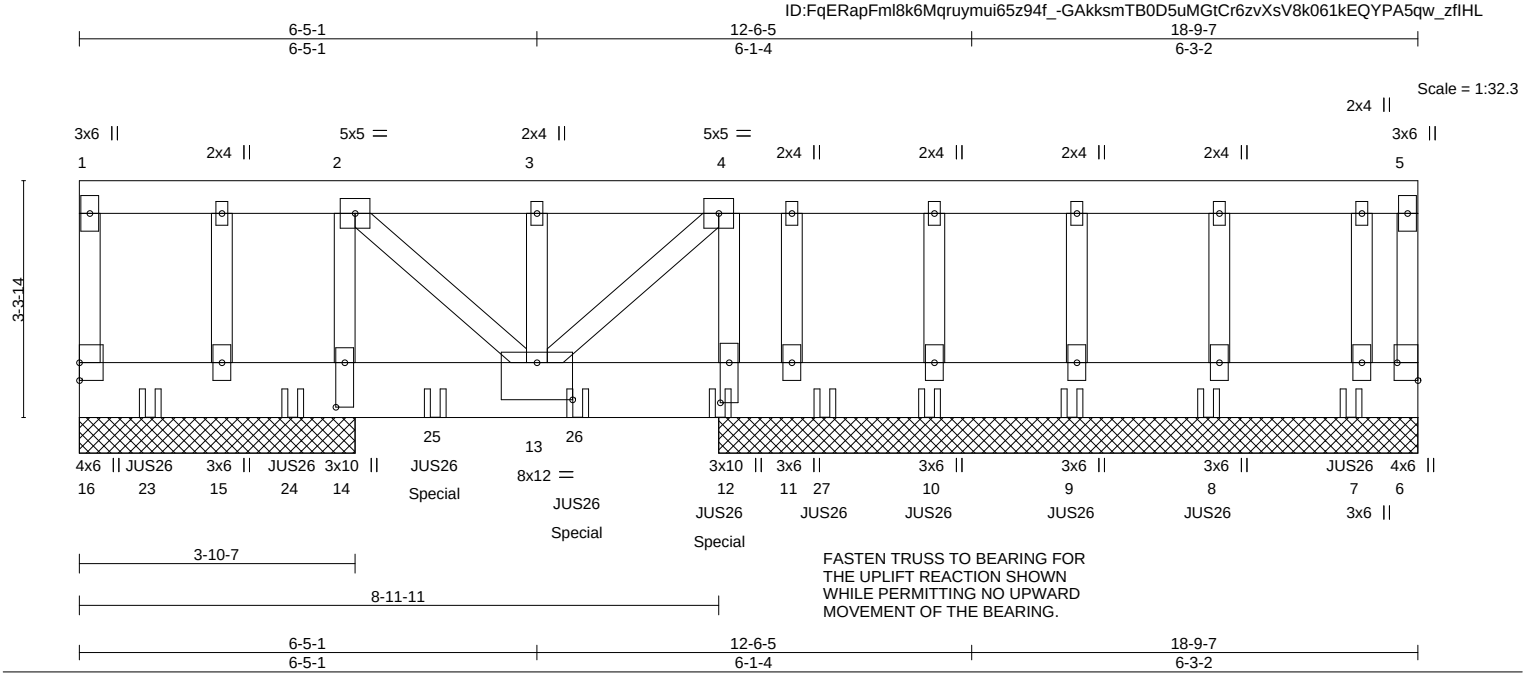

Plate Offsets (X,Y)-- [6:Edge,0-3-8], [12:0-6-12,0-1-8], [13:0-6-0,0-6-4], [14:0-7-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.01	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 161 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-9-12 except (jt=length) 16=3-10-7, 15=3-10-7, 14=3-10-7.
(lb) - Max Horz 16=-160(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 15=-131(LC 32), 11=-695(LC 1), 14=-1059(LC 39), 12=-727(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 15 except 16=509(LC 1), 6=266(LC 1), 10=1010(LC 1), 9=654(LC 1), 8=749(LC 1), 7=715(LC 1), 14=4639(LC 32), 12=6062(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-746/750, 2-3=-1395/990, 3-4=-960/450, 4-5=-1927/1927, 5-6=-264/153
BOT CHORD	15-16=-633/636, 14-15=-1158/1161, 13-14=-1158/1161, 12-13=-2638/2637, 11-12=-2638/2637, 10-11=-2341/2341, 9-10=-1847/1846, 8-9=-1243/1242, 7-8=-748/748
WEBS	2-14=-2265/1715, 4-12=-2609/2108, 3-13=-78/259, 2-13=-2461/2992, 4-13=-2498/3089

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 15=131, 11=695, 14=1059, 12=727.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 3-10-7, 8-11-11 to 18-9-7 for 274.6 plf.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-15 from the left end to 17-10-3 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

March 2,2022

LOAD CASE(S) Standard

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511067
PRYOR-R2A	T132	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-16=-20
   Concentrated Loads (lb)
   Vert: 10=-688(F) 9=-688(F) 8=-688(F) 7=-690(F) 12=-1903(F=-688, B=-1215) 23=-689(F) 24=-688(F) 25=-1903(F=-688, B=-1215) 26=-1903(F=-688, B=-1215) 27=-688(F)

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T133	Roof Special Supported Gable	1	1	I50511068
					Job Reference (optional)

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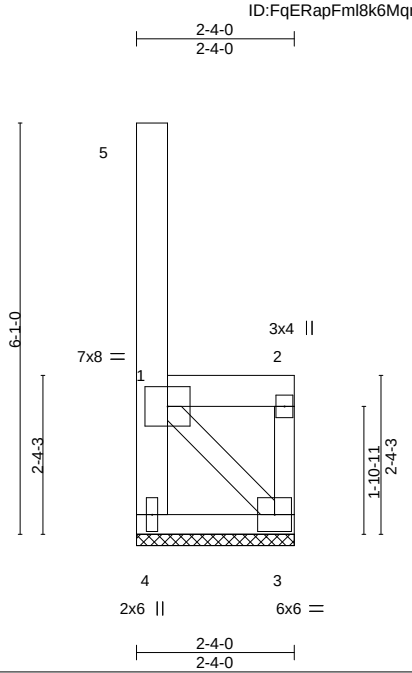

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-183(LC 11)
Max Uplift 4=-302(LC 11), 3=-302(LC 12)
Max Grav 4=358(LC 25), 3=358(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-446/916
BOT CHORD 3-4=-407/649
WEBS 1-3=-871/552

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=302, 3=302.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511068
PRYOR-R2A	T133	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T134	Roof Special Supported Gable	1	1	I50511069
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:27 2022 Page 1
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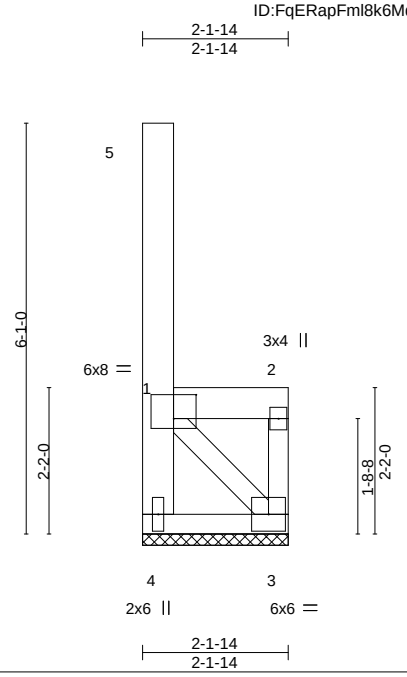

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 26 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-0-11 oc bracing.

REACTIONS. (size) 4=2-1-14, 3=2-1-14
Max Horz 4=-186(LC 11)
Max Uplift 4=-336(LC 11), 3=-336(LC 12)
Max Grav 4=373(LC 14), 3=373(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-503/1004
BOT CHORD 3-4=-429/693
WEBS 1-3=-937/585

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=336, 3=336.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511069
PRYOR-R2A	T134	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T135	Roof Special Supported Gable	1	1	I50511070
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:28 2022 Page 1
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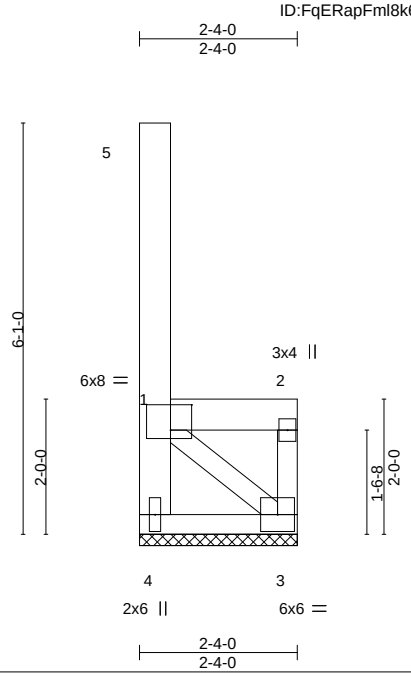

Plate Offsets (X,Y)-- [1:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 26 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-7-12 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-188(LC 11)
Max Uplift 4=-307(LC 11), 3=-307(LC 12)
Max Grav 4=361(LC 25), 3=361(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-477/931
BOT CHORD 3-4=-471/763
WEBS 1-3=-953/593

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=307, 3=307.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511070
PRYOR-R2A	T135	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T136	Roof Special Supported Gable	2	1	I50511071
					Job Reference (optional)

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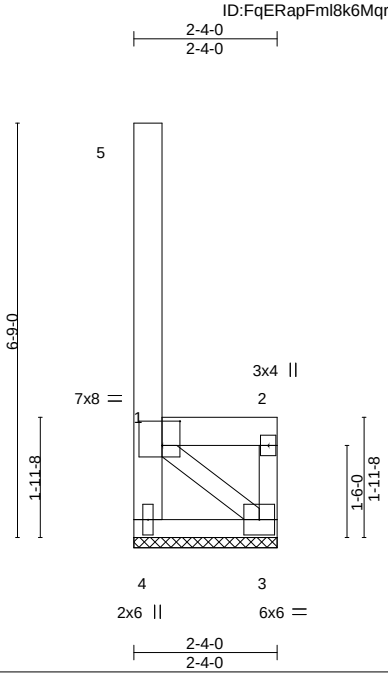

Plate Offsets (X,Y)-- [1:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 28 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-8-4 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-213(LC 11)
Max Uplift 4=-384(LC 11), 3=-384(LC 12)
Max Grav 4=426(LC 14), 3=426(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-604/1148
BOT CHORD 3-4=-598/982
WEBS 1-3=-1225/749

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=384, 3=384.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511071
PRYOR-R2A	T136	Roof Special Supported Gable	2	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T138	Roof Special Supported Gable	1	1	I50511072
					Job Reference (optional)

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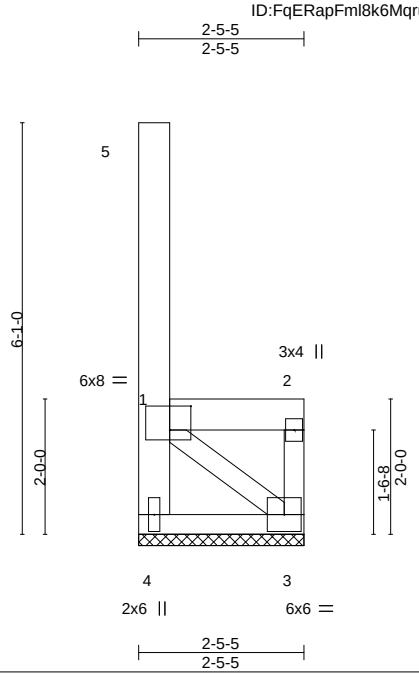

Plate Offsets (X,Y)-- [1:0-3-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 27 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-7-1 oc bracing.

REACTIONS. (size) 4=2-5-5, 3=2-5-5
Max Horz 4=-188(LC 11)
Max Uplift 4=-290(LC 11), 3=-290(LC 12)
Max Grav 4=356(LC 25), 3=356(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-456/888
BOT CHORD	3-4=-477/769
WEBS	1-3=-940/587

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=290, 3=290.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

March 2,2022

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511072
PRYOR-R2A	T138	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-20
   Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T139	Roof Special Supported Gable	1	1	I50511073
					Job Reference (optional)

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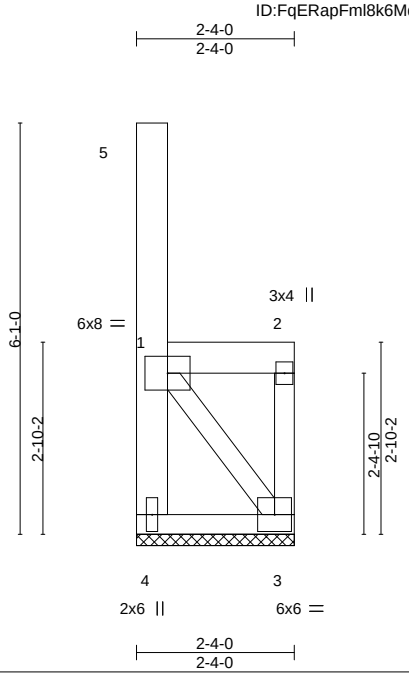

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-176(LC 11)
Max Uplift 4=-294(LC 11), 3=-294(LC 12)
Max Grav 4=352(LC 25), 3=352(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-445/892
BOT CHORD 3-4=-352/547
WEBS 1-3=-808/529

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=294, 3=294.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T140	Roof Special Supported Gable	1	1	I50511074
					Job Reference (optional)

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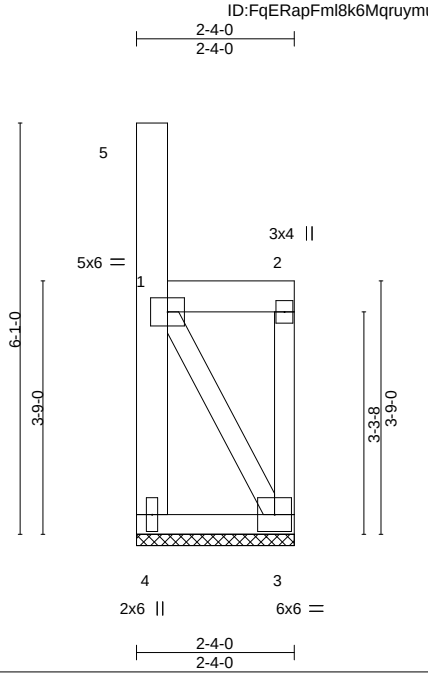

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-163(LC 11)
Max Uplift 4=-275(LC 11), 3=-275(LC 12)
Max Grav 4=338(LC 25), 3=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-443/831
BOT CHORD 3-4=-298/437
WEBS 1-3=-748/530

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=275, 3=275.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T141	Roof Special Supported Gable	1	1	I50511075
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:32 2022 Page 1
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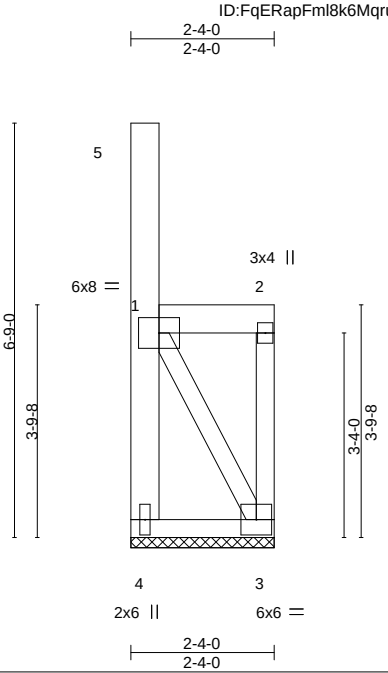

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-187(LC 11)
Max Uplift 4=-351(LC 11), 3=-351(LC 12)
Max Grav 4=394(LC 25), 3=394(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-565/1043
BOT CHORD 3-4=-345/519
WEBS 1-3=-919/629

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=351, 3=351.
11) Non Standard bearing condition. Review required.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T142	Roof Special Supported Gable	1	1	I50511076
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:33 2022 Page 1
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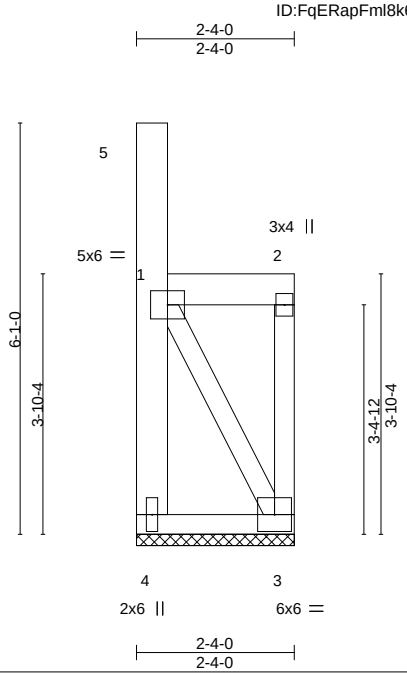

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-162(LC 11)
Max Uplift 4=-272(LC 11), 3=-272(LC 12)
Max Grav 4=336(LC 25), 3=336(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-442/823
BOT CHORD 3-4=-294/428
WEBS 1-3=-743/532

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=272, 3=272.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511076
PRYOR-R2A	T142	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T143	Roof Special Supported Gable	2	1	I50511077
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:35 2022 Page 1
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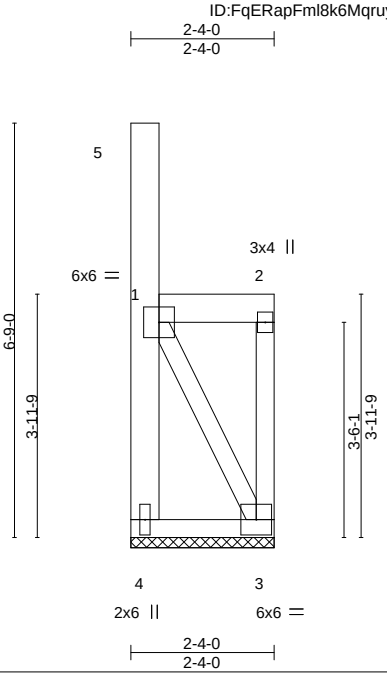

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-184(LC 11)
Max Uplift 4=-346(LC 11), 3=-346(LC 12)
Max Grav 4=391(LC 25), 3=391(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-565/1030
BOT CHORD 3-4=-337/502
WEBS 1-3=-912/634

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=346, 3=346.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511077
PRYOR-R2A	T143	Roof Special Supported Gable	2	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T144	Roof Special Supported Gable	1	1	I50511078
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:37 2022 Page 1
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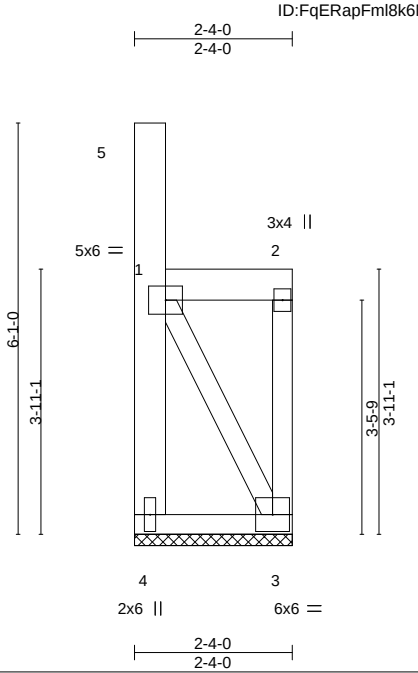

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=161(LC 12)
Max Uplift 4=-271(LC 11), 3=-271(LC 12)
Max Grav 4=334(LC 25), 3=334(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-442/818
BOT CHORD 3-4=-291/422
WEBS 1-3=-739/533

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=271, 3=271.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511078
PRYOR-R2A	T144	Roof Special Supported Gable	1	1	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T145	Roof Special	1	1	I50511079
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:39 2022 Page 1
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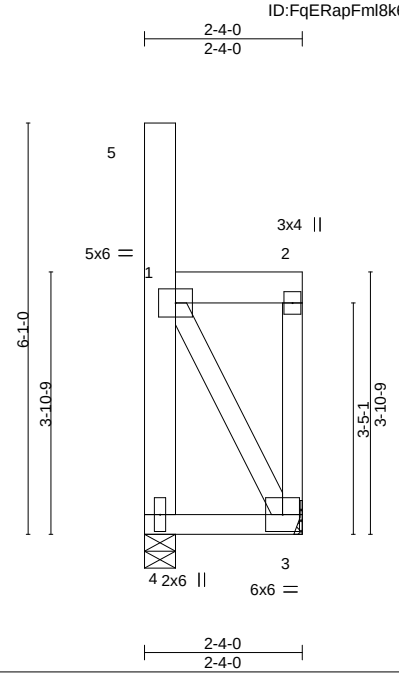

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-161(LC 11)
Max Uplift 4=-272(LC 11), 3=-272(LC 12)
Max Grav 4=335(LC 25), 3=335(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-379/800
BOT CHORD 3-4=-260/401
WEBS 1-3=-718/465

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=272, 3=272.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
					I50511079
PRYOR-R2A	T145	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T146	Roof Special Structural Gable	2	1	I50511080
					Job Reference (optional)

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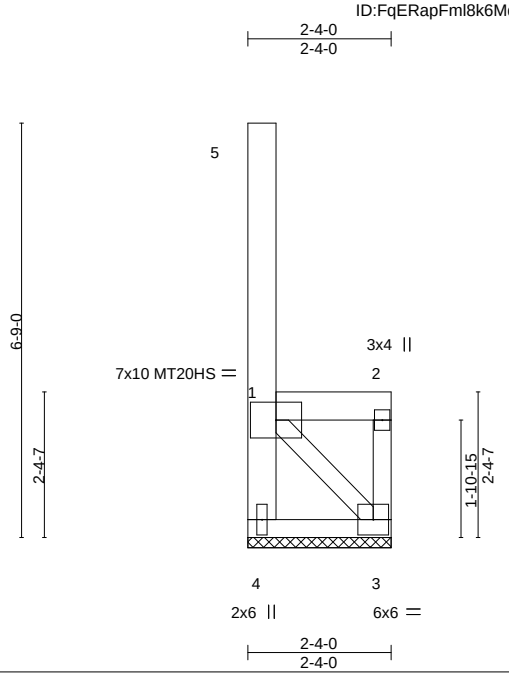

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=207(LC 12)
Max Uplift 4=-379(LC 11), 3=-379(LC 12)
Max Grav 4=420(LC 14), 3=420(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-497/1124
BOT CHORD 3-4=-424/765
WEBS 1-3=-1050/579

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=379, 3=379.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

March 2,2022

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T147	Roof Special Supported Gable	1	1	I50511081
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:41 2022 Page 1
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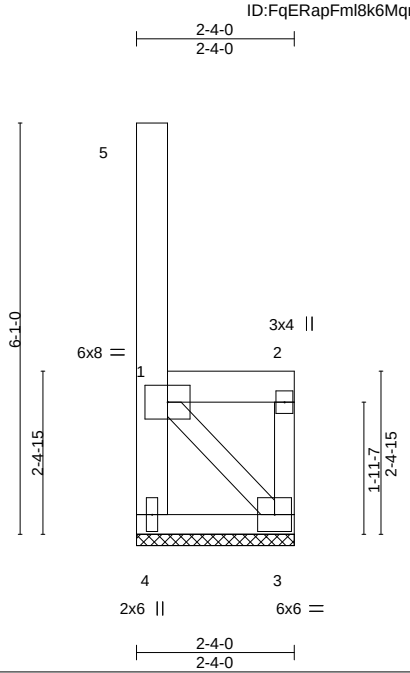

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-182(LC 11)
Max Uplift 4=-301(LC 11), 3=-301(LC 12)
Max Grav 4=357(LC 25), 3=357(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-446/914
BOT CHORD 3-4=-399/633
WEBS 1-3=-861/548

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=301, 3=301.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area A ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA A BLDG 2 (ROOF)
PRYOR-R2A	T148	Roof Special Supported Gable	1	1	I50511082
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:04:43 2022 Page 1
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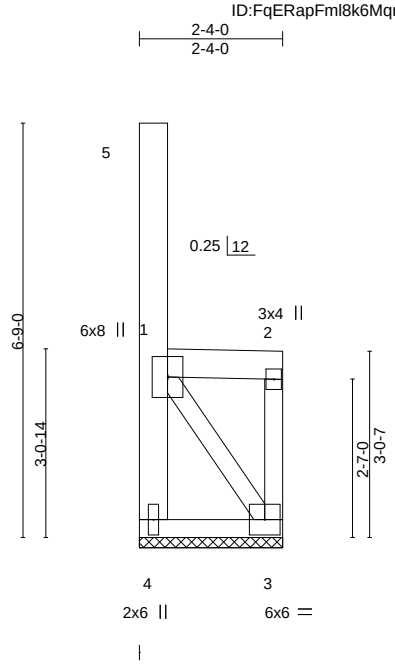

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-2 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-197(LC 11)
Max Uplift 4=-360(LC 11), 3=-365(LC 12)
Max Grav 4=407(LC 14), 3=415(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-563/1096
BOT CHORD 3-4=-388/615
WEBS 1-3=-967/619

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=360, 3=365.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-123, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-155, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=13, 1-5=27, 1-2=3, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 1-2=9, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=10, 1-5=-18, 1-2=3, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 1-2=9, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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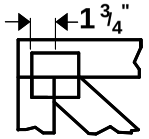
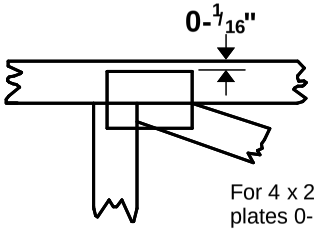
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

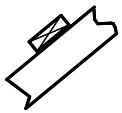
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

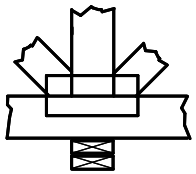
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

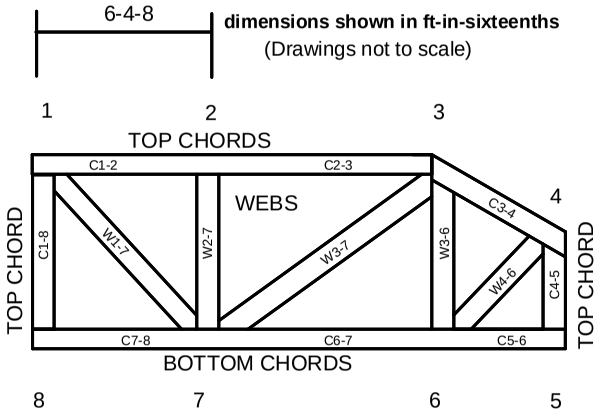


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area A ROOF

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: April 4, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-18.0: Building 2 - Area B - Roof Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

PRYOR-R2B

TRUSS LAYOUT

Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 4/5/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 04/04/2022 BY CB

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area B
ROOF

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-R2B
WEST PRYOR-AREA B BLDG 2 (ROOF)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I51032201 thru I51032305

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

March 28,2022

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 04/04/2022 *BY:* CB

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 4/5/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRI ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J1	Jack-Closed	31	1	I51032201
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:25 2022 Page 1
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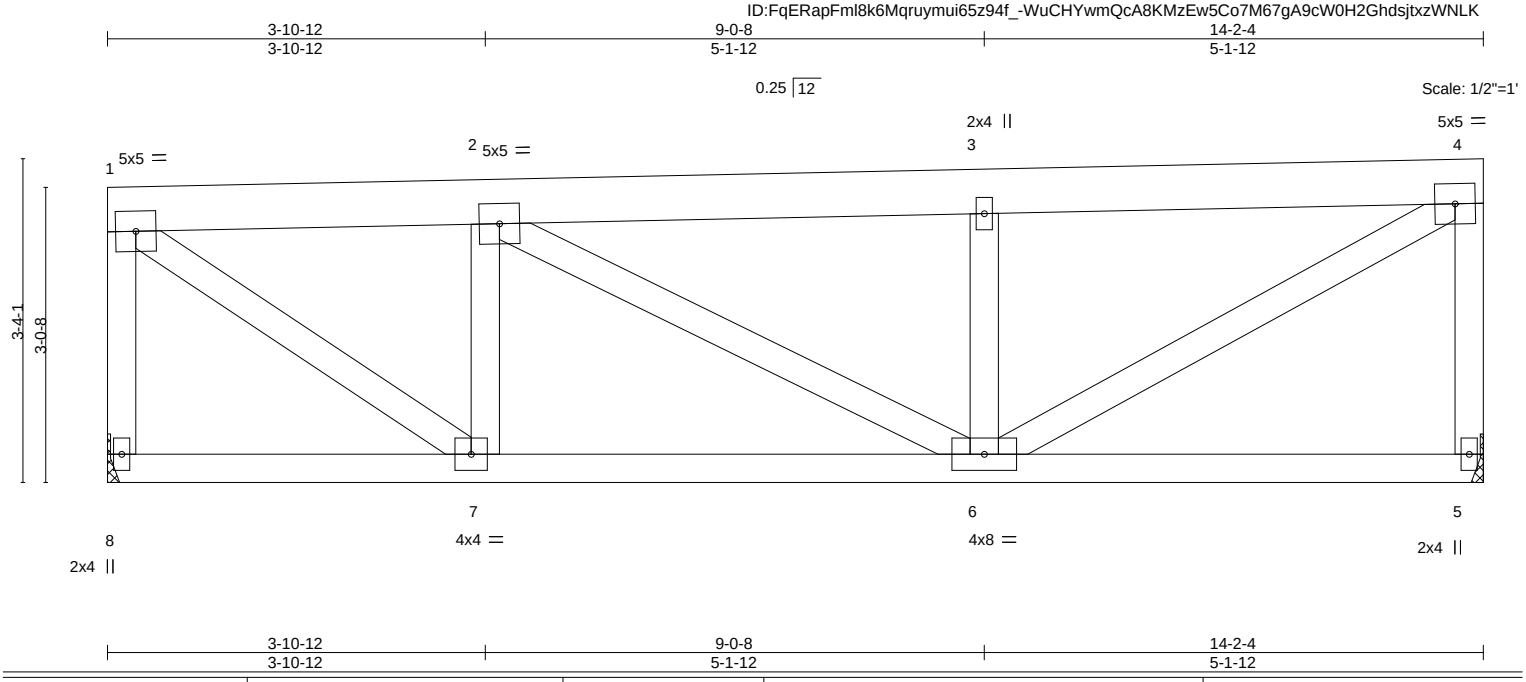

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 91 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=63(LC 12)
Max Grav 8=675(LC 21), 5=675(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-646/258, 1-2=-728/265, 2-3=-839/303, 3-4=-839/309, 4-5=-635/271
BOT CHORD 6-7=-326/727
WEBS 1-7=-324/892, 2-7=-423/245, 3-6=-438/261, 4-6=-363/970

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J2	Jack-Closed	5	1	I51032202
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:26 2022 Page 1
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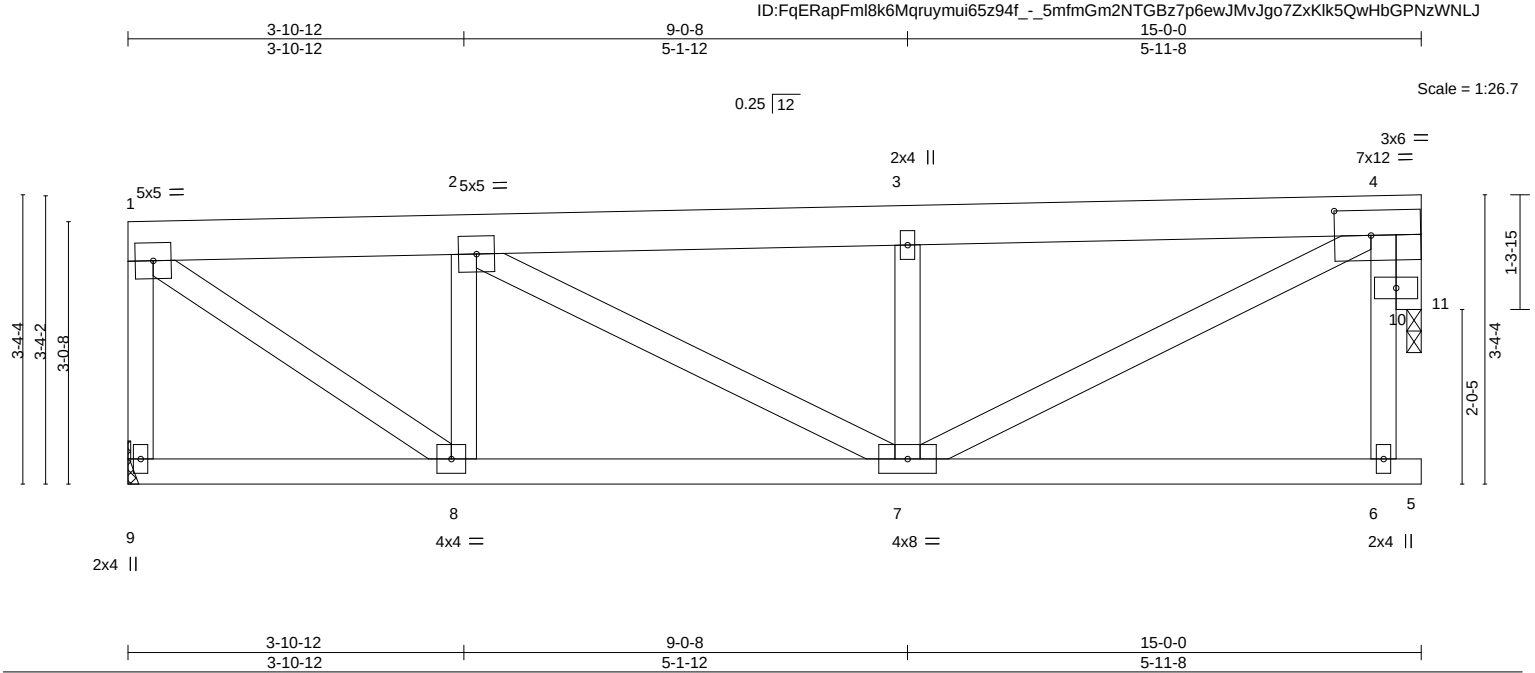

Plate Offsets (X,Y)-- [4:0-5-1,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 96 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 11=0-2-0
Max Horz 9=54(LC 12)
Max Grav 9=718(LC 21), 11=693(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-688/259, 1-2=-782/279, 2-3=-982/329, 3-4=-983/336
BOT CHORD 7-8=-323/780
WEBS 1-8=-327/958, 2-8=-464/246, 3-7=-468/269, 4-7=-361/1020, 4-11=-736/250

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J2A	Jack-Closed	3	1	I51032203
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:27 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-SHK1zcng7nO2bHNICdrbRXC0wzG4UAzZ8xLqxqzWNLI

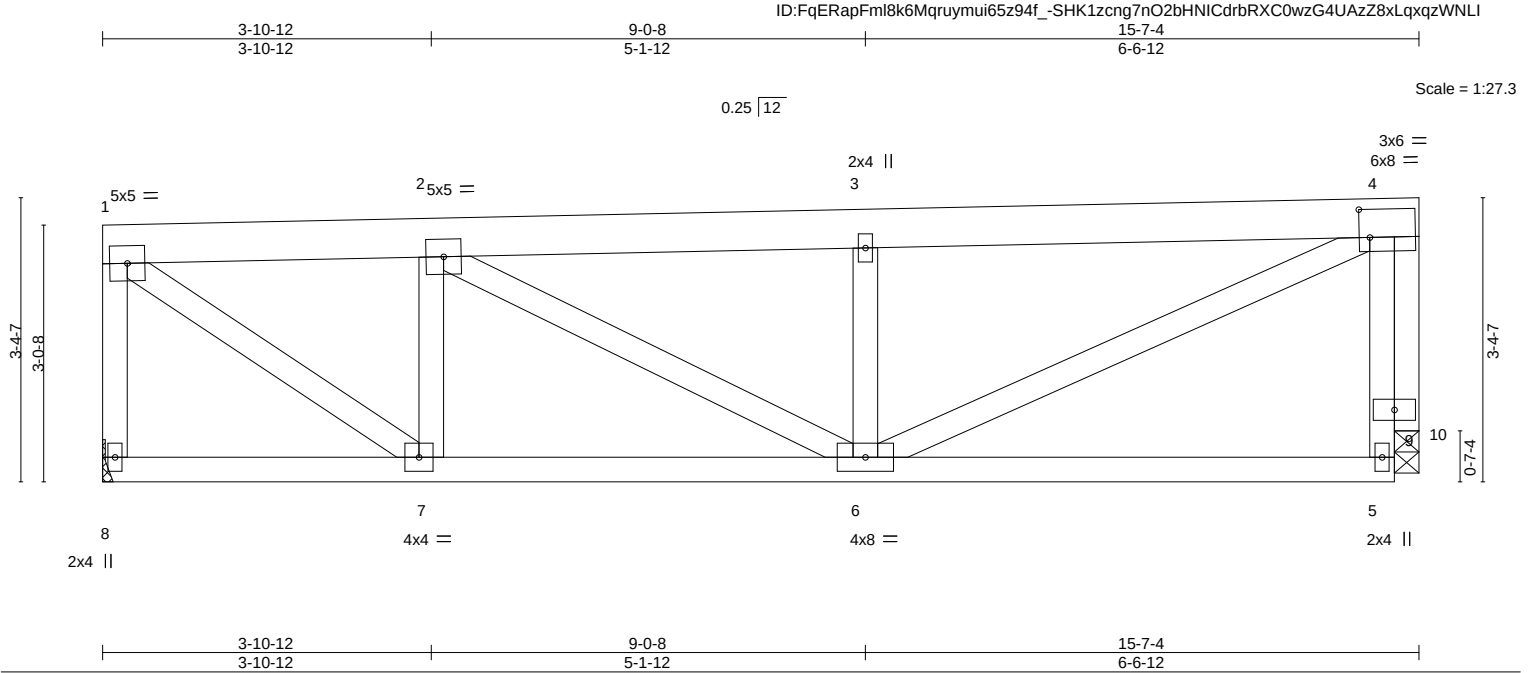

Plate Offsets (X,Y)-- [4:0-1-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 101 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 10=0-3-8
Max Horz 8=-44(LC 13)
Max Grav 8=744(LC 22), 10=716(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-8=-713/258, 1-2=-817/287, 2-3=-1067/352, 3-4=-1068/359
BOT CHORD	6-7=-309/815
WEBS	1-7=-327/1001, 2-7=-492/243, 2-6=-88/281, 3-6=-464/266, 4-6=-351/1055, 4-10=-724/245

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J3	Jack-Closed	6	1	I51032204
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:29 2022 Page 1
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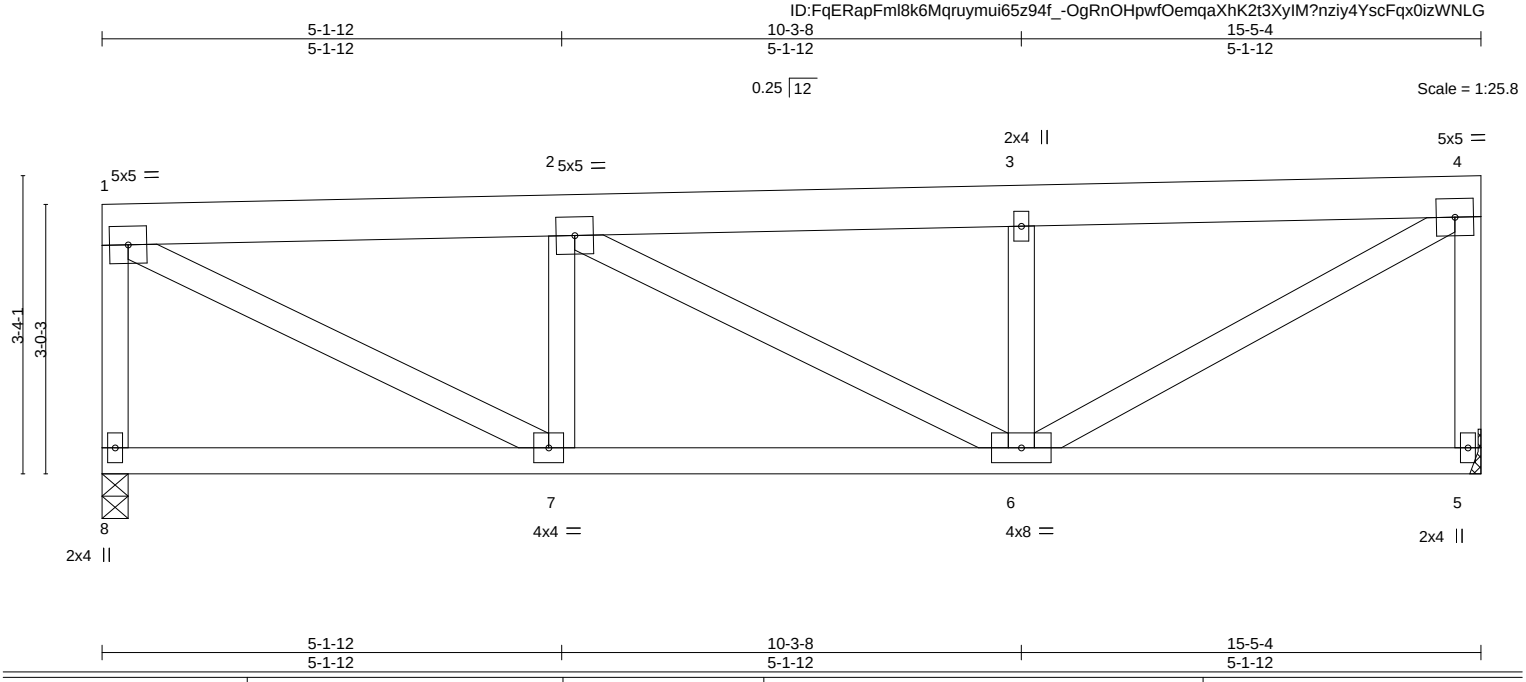

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 97 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Horz 8=63(LC 12)
Max Grav 8=736(LC 21), 5=736(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-695/271, 1-2=-972/327, 2-3=-940/323, 3-4=-941/329, 4-5=-695/277
BOT CHORD 6-7=-386/969
WEBS 1-7=-375/1096, 2-7=-403/243, 3-6=-426/243, 4-6=-381/1088

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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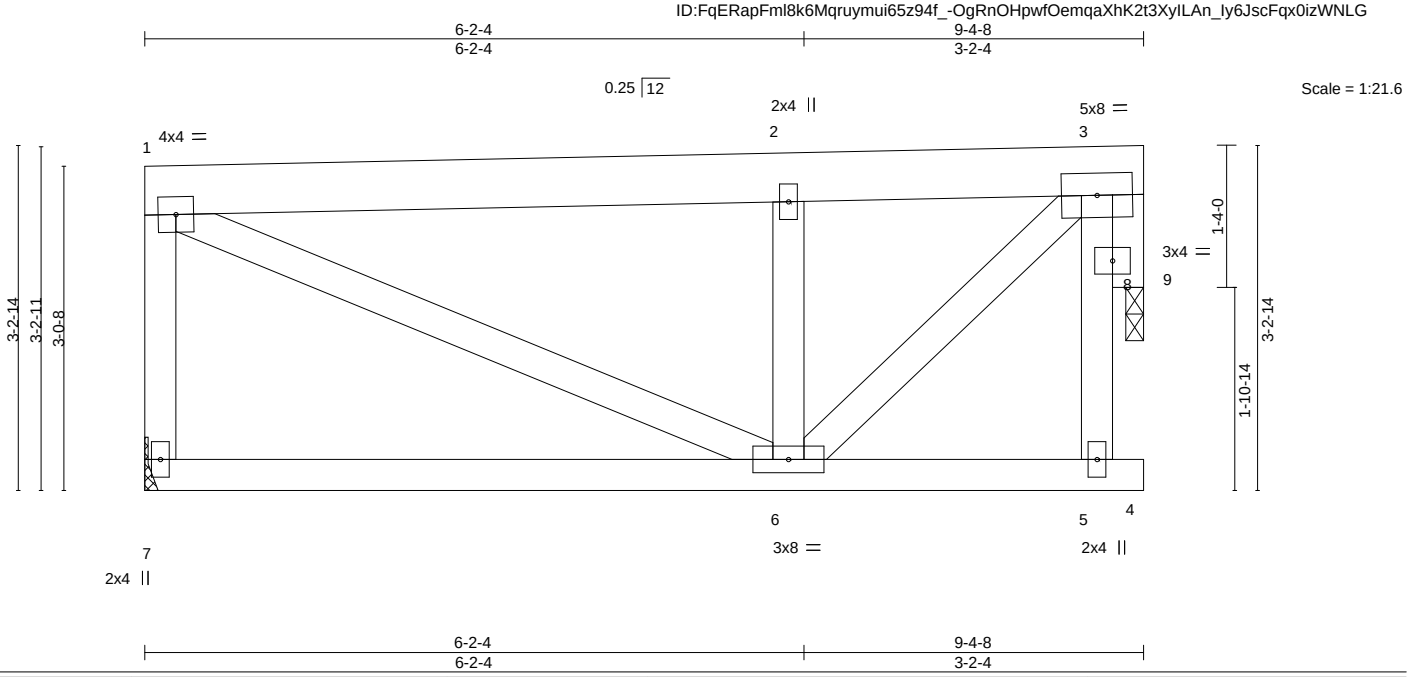
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J5	Jack-Closed	4	1	I51032205
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:29 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-OgRnOHpwfOemqaXhK2t3XyILAn_Iy6JscFqx0izWNLG



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 62 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 9=0-2-0
Max Horz 7=51(LC 12)
Max Grav 7=444(LC 21), 9=419(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-395/229, 1-2=-435/191, 2-3=-436/198
WEBS 1-6=-223/474, 2-6=-476/338, 3-6=-279/565, 3-9=-435/196

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J6	Jack-Closed	34	1	I51032206
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:30 2022 Page 1
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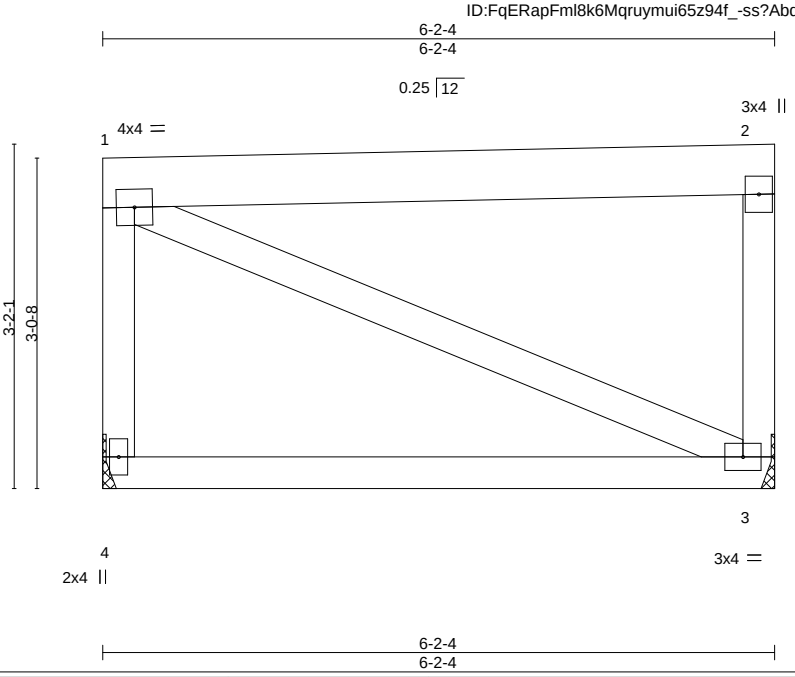

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	3-4	>976	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 40 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=60(LC 14)
Max Uplift 4=-1(LC 11)
Max Grav 4=287(LC 21), 3=287(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	J7	Jack-Closed	3	1	I51032207
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:31 2022 Page 1

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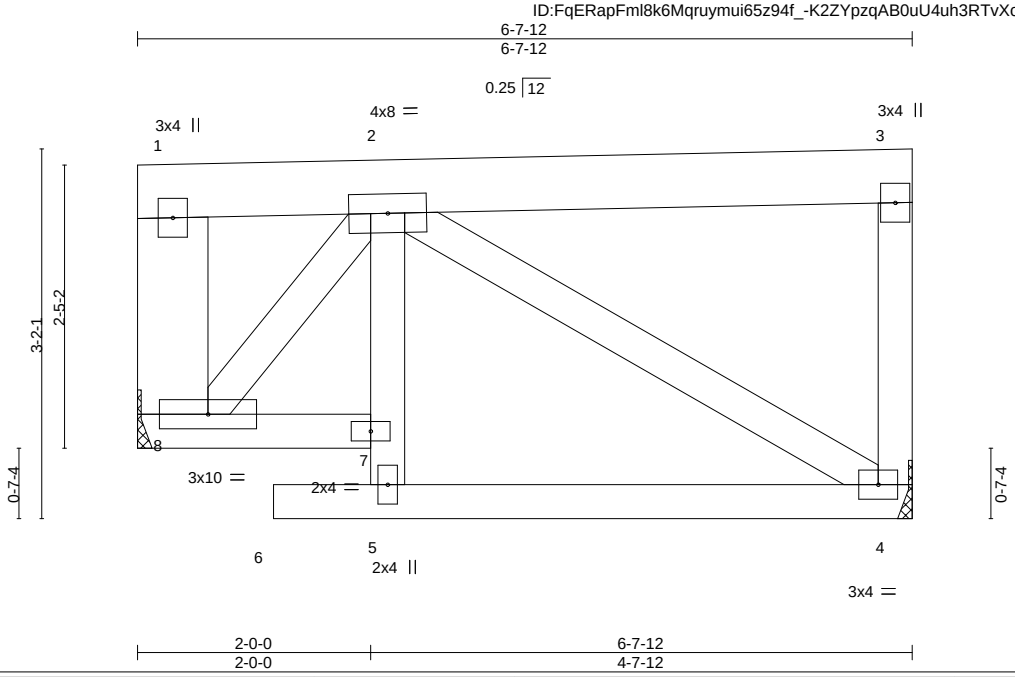

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 1-8: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 5-7

REACTIONS. (size) 8=Mechanical, 4=Mechanical
Max Horz 8=57(LC 14)
Max Grav 8=317(LC 21), 4=306(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-318/192

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M1	Monopitch	19	1	I51032208
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:32 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-oF7w0JrpyJ0Lh2GG?AQm8awq4_ti9KUIIC2bc1zWNLD

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

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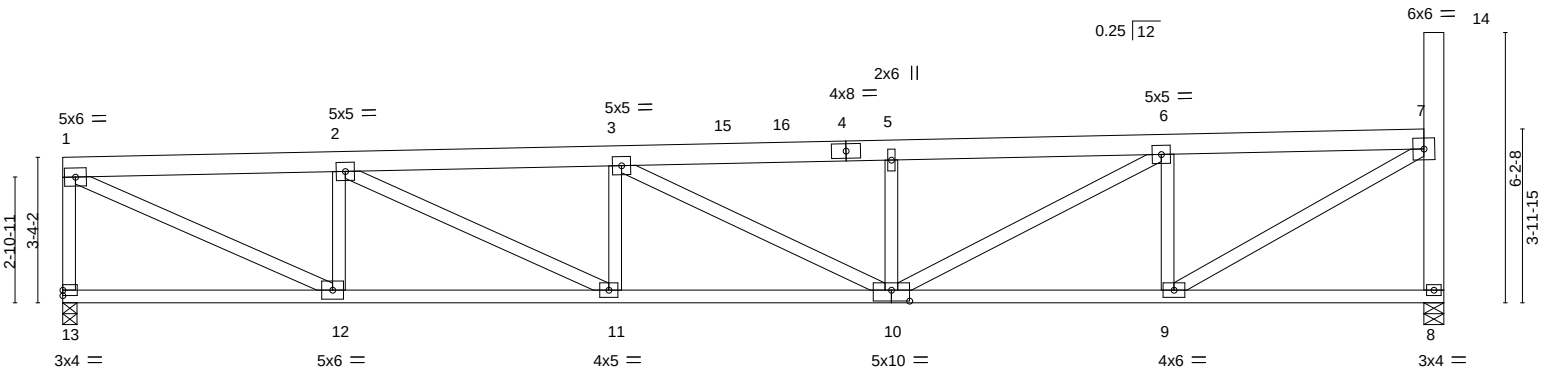

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	10-11	>922	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-13: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-7 oc bracing.

REACTIONS. (size) 13=0-3-15, 8=0-5-8
Max Horz 13=164(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1516/305, 1-2=-2636/450, 2-3=-3777/669, 3-5=-3656/680, 5-6=-3656/686, 6-7=-2419/513, 7-8=-1729/318
BOT CHORD 11-12=-608/2631, 10-11=-731/3771, 9-10=-395/2411
WEBS 1-12=-513/2871, 2-12=-1112/306, 2-11=-237/1269, 3-11=-432/179, 5-10=-492/182, 6-10=-299/1414, 6-9=-1257/317, 7-9=-464/2710

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M1A	Monopitch	3	1	I51032209
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:49 2022 Page 1
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6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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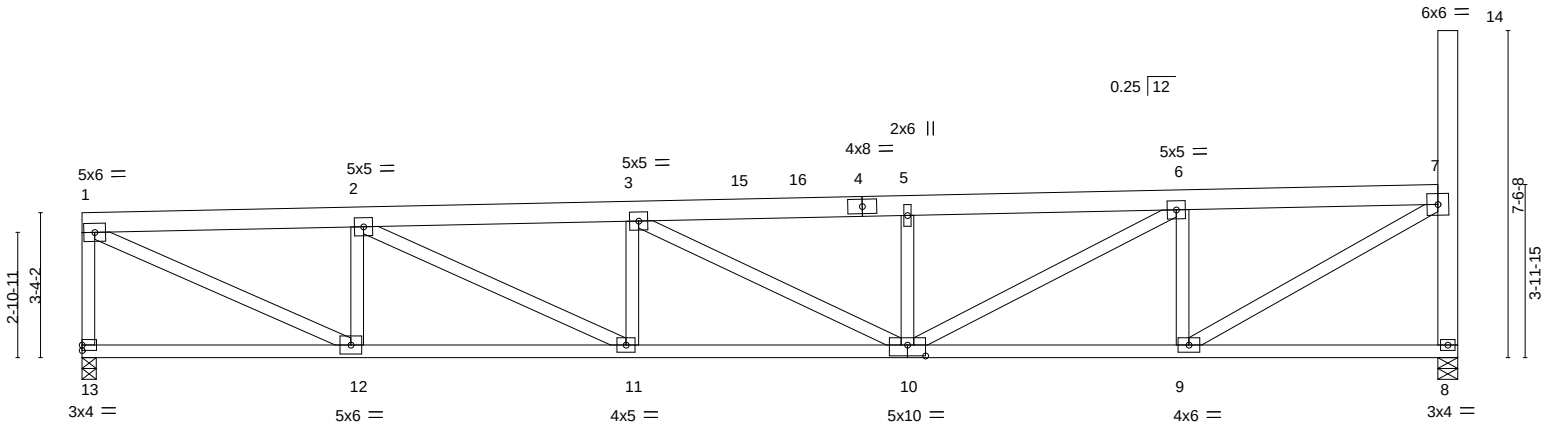

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	10-11	>922	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-13: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-12 oc bracing.

REACTIONS. (size) 13=0-3-15, 8=0-5-8
Max Horz 13=213(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1516/316, 1-2=-2636/472, 2-3=-3777/711, 3-5=-3656/740, 5-6=-3656/745, 6-7=-2419/593, 7-8=-1729/336
BOT CHORD 12-13=-319/214, 11-12=-651/2631, 10-11=-744/3771, 9-10=-370/2411
WEBS 1-12=-537/2871, 2-12=-1112/316, 2-11=-260/1269, 3-11=-432/189, 5-10=-492/186, 6-10=-334/1414, 6-9=-1257/318, 7-9=-469/2710

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M1G	Monopitch Girder	1	1	I51032210
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:50 2022 Page 1
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6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

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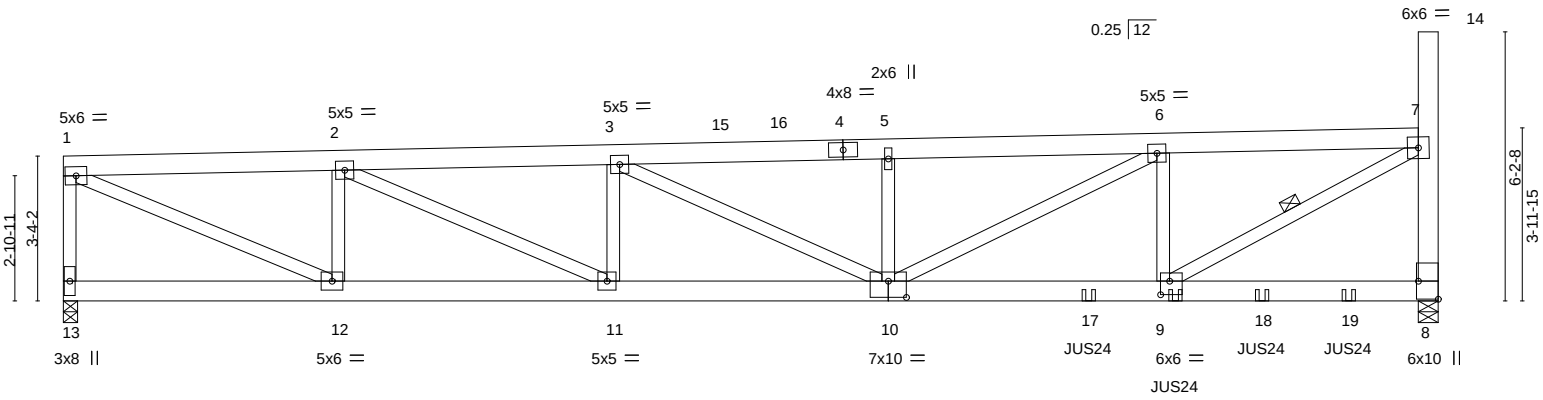

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [8:Edge,0-5-8], [9:0-2-8,0-3-12], [10:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.41	10-11	>927	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 229 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-13 oc bracing.
WEBS	1 Row at midpt 7-9

REACTIONS. (size) 13=0-3-15, 8=0-5-8
Max Horz 13=162(LC 12)
Max Uplift 13=-139(LC 11), 8=-929(LC 15)
Max Grav 13=1669(LC 21), 8=2401(LC 56)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1598/485, 1-2=-2882/839, 2-3=-4229/1418, 3-5=-4261/1769, 5-6=-4261/1775, 6-7=-3329/1831, 7-8=-2066/1028
BOT CHORD 11-12=-995/2877, 10-11=-1478/4223, 9-10=-1713/3213
WEBS 1-12=-929/3118, 2-12=-1198/480, 2-11=-635/1491, 3-11=-517/352, 3-10=-513/492, 5-10=-491/192, 6-10=-583/1339, 6-9=-1184/476, 7-9=-1904/3574

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=139, 8=929.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 23-7-15 from the left end to connect truss(es) to front face of bottom chord.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 25-7-15 from the left end to 29-7-15 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-117(F) 17=-117(F) 18=-117(F) 19=-117(F)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-13=-20
   Concentrated Loads (lb)
   Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-13=-20
   Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Concentrated Loads (lb)
   Vert: 9=162(F) 17=163(F) 18=161(F) 19=161(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-13=-20
   Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Concentrated Loads (lb)
   Vert: 9=162(F) 17=163(F) 18=161(F) 19=161(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-13=-20
   Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Concentrated Loads (lb)
   Vert: 9=162(F) 17=163(F) 18=161(F) 19=161(F)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-13=-20
   Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Concentrated Loads (lb)
   Vert: 9=162(F) 17=163(F) 18=161(F) 19=161(F)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 9=-146(F) 17=-146(F) 18=-146(F) 19=-146(F)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
Concentrated Loads (lb)
Vert: 9=-304(F) 17=-304(F) 18=-303(F) 19=-302(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
Concentrated Loads (lb)
Vert: 9=-304(F) 17=-304(F) 18=-303(F) 19=-302(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
Concentrated Loads (lb)
Vert: 9=-304(F) 17=-304(F) 18=-303(F) 19=-302(F)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
Concentrated Loads (lb)
Vert: 9=-304(F) 17=-304(F) 18=-303(F) 19=-302(F)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

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Chesterfield, MO 63017

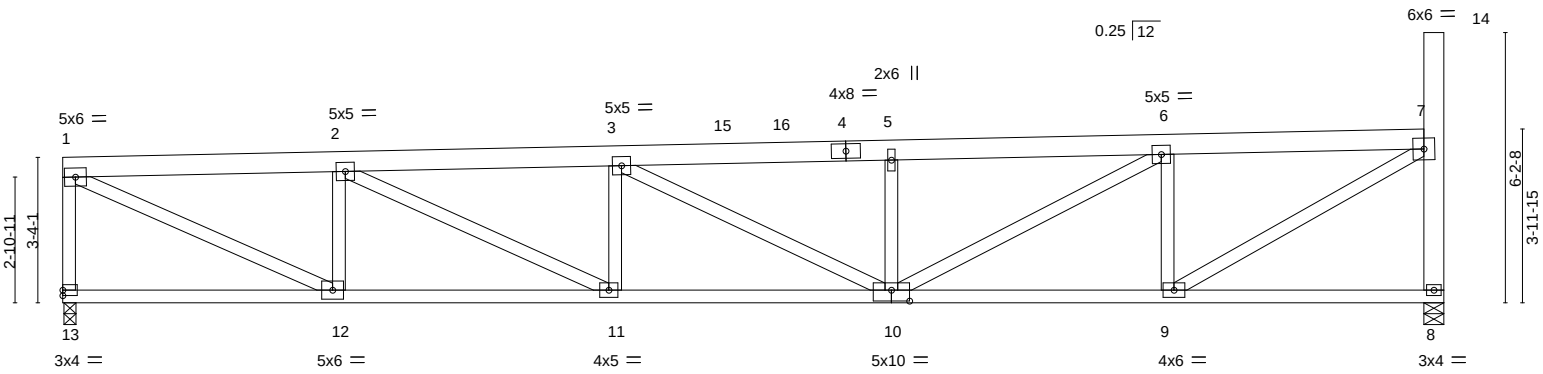
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M2	Monopitch	1	1	I51032211
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:51 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-lvm60p4jU9QeTzDvcgGDQbC4HeM96wB5gg95mQzWNKw

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Scale = 1:52.9



0-0-5	6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
0-0-5	6-3-13	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	10-11	>922	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-13: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 8-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-7 oc bracing.

REACTIONS. (size) 13=0-3-5, 8=0-5-8
Max Horz 13=164(LC 14)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1517/305, 1-2=-2637/450, 2-3=-3779/669, 3-5=-3657/681, 5-6=-3657/686, 6-7=-2420/513, 7-8=-1729/318
BOT CHORD	11-12=-608/2632, 10-11=-731/3772, 9-10=-395/2412
WEBS	1-12=-513/2872, 2-12=-1113/306, 2-11=-237/1269, 3-11=-432/179, 5-10=-492/182, 6-10=-299/1415, 6-9=-1257/317, 7-9=-464/2711

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M2G	GABLE	1	1	I51032212
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:00 2022 Page 1
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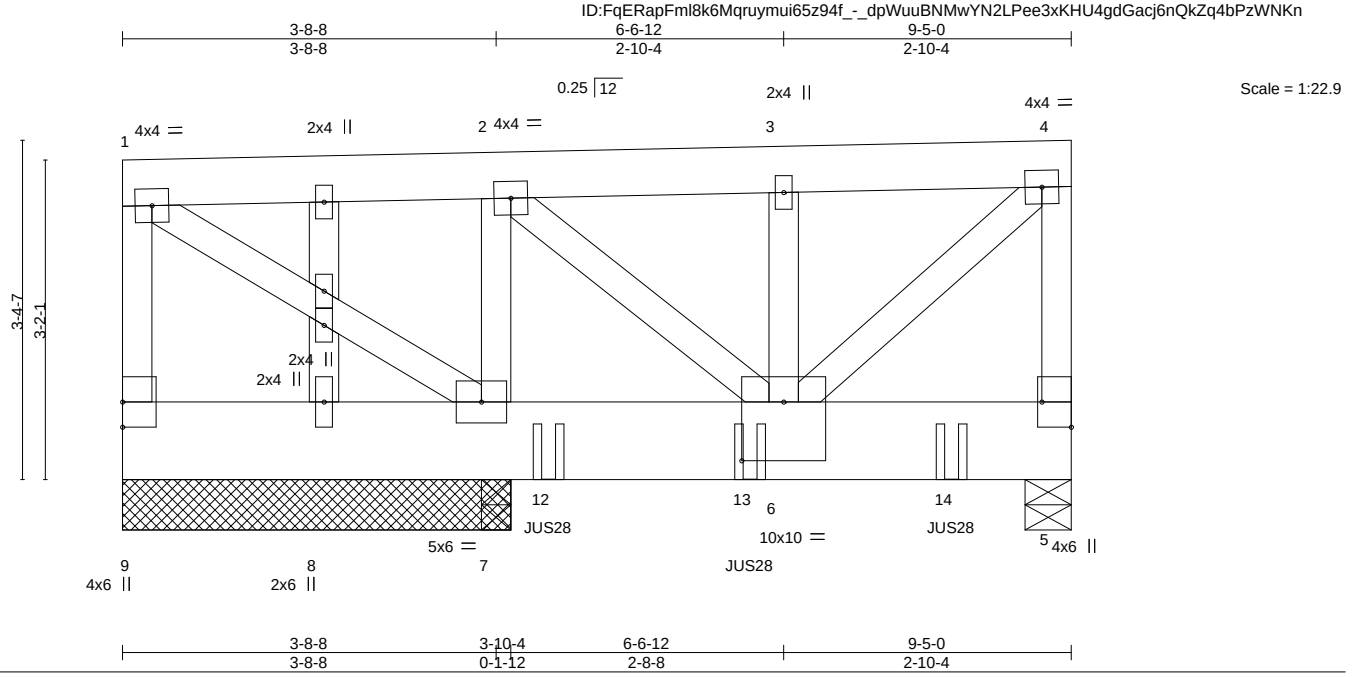

Plate Offsets (X,Y)-- [5:Edge,0-3-8], [6:0-5-0,0-7-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.01	6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 89 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-7.

REACTIONS. All bearings 3-10-4 except (jt=length) 5=0-5-8.
(lb) - Max Horz 9=59(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-726(LC 21)
Max Grav All reactions 250 lb or less at joint(s) 9 except 5=1591(LC 21), 7=3202(LC 21), 7=3157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-649/0, 3-4=-647/0, 4-5=-761/0
WEBS 2-7=-1007/86, 2-6=0/953, 4-6=0/920

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 726 lb uplift at joint 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Use USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-2-12 from the left end to 8-2-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 5-9=-20
Concentrated Loads (lb)
Vert: 12=-1116(F) 13=-1123(F) 14=-1131(F)

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M3	Monopitch	3	1	I51032213
					Job Reference (optional)

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6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

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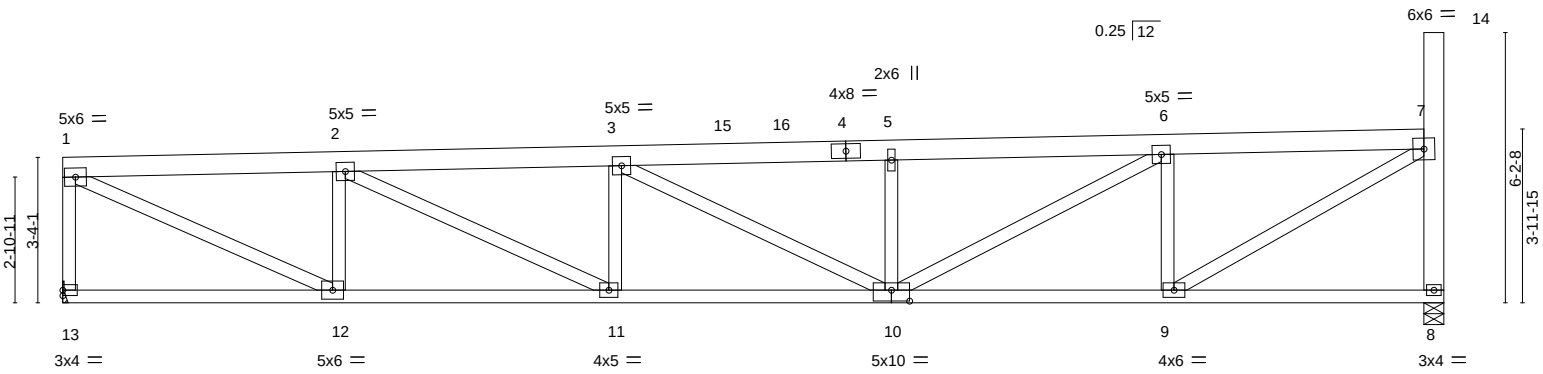

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	10-11	>922	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-13: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 8-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-4-7 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-5-8
Max Horz 13=164(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1517/305, 1-2=-2637/450, 2-3=-3779/669, 3-5=-3657/681, 5-6=-3657/686, 6-7=-2420/513, 7-8=-1729/318
BOT CHORD	11-12=-608/2632, 10-11=-731/3772, 9-10=-395/2412
WEBS	1-12=-513/2872, 2-12=-1113/306, 2-11=-237/1269, 3-11=-432/179, 5-10=-492/182, 6-10=-299/1415, 6-9=-1257/317, 7-9=-464/2711

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-13=-20
Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-13=-20
Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M3A	Monopitch	2	1	I51032214
					Job Reference (optional)

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ID:FqERapFml8k6Mqruymui65z94f_-OCVeXvDFfrwxvp8DJBU1v7i7FUTzwL9sQX3kCkzWNKk

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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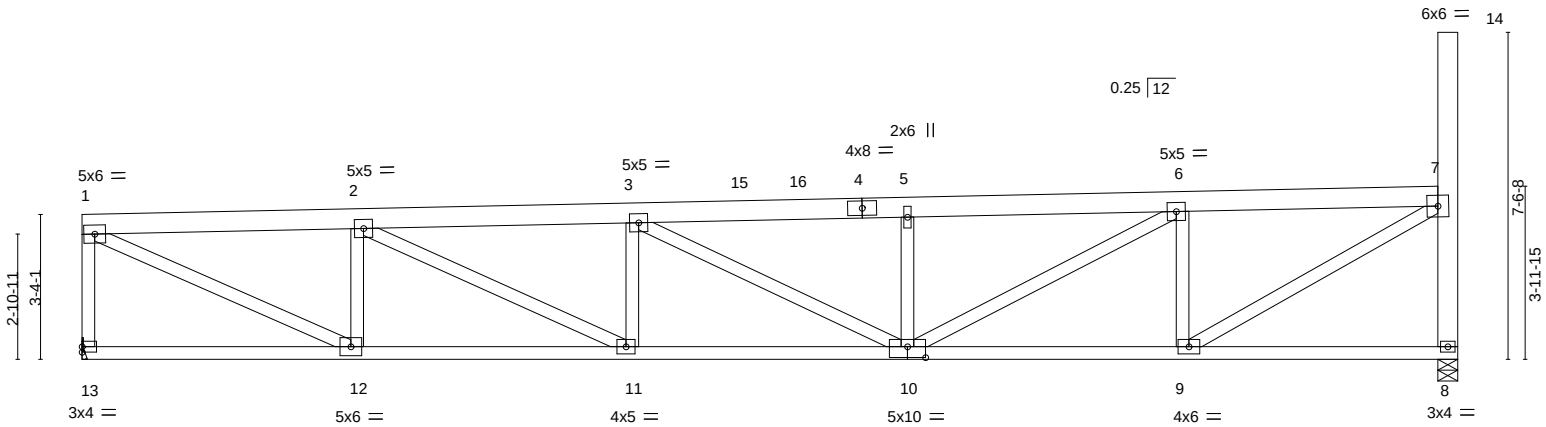

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.41	10-11	>922	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-13: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-12 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-5-8
Max Horz 13=213(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1517/316, 1-2=-2637/472, 2-3=-3779/711, 3-5=-3657/740, 5-6=-3657/745, 6-7=-2420/593, 7-8=-1729/336
BOT CHORD 12-13=-319/214, 11-12=-651/2632, 10-11=-744/3772, 9-10=-370/2412
WEBS 1-12=-537/2872, 2-12=-1113/316, 2-11=-260/1269, 3-11=-432/189, 5-10=-492/186, 6-10=-334/1415, 6-9=-1257/318, 7-9=-469/2711

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M3GE	GABLE	2	1	I51032215
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:05 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-LbdPybFVBSBf96HcRcWV_YnT9HFgOEK9urYrGdzWNKi

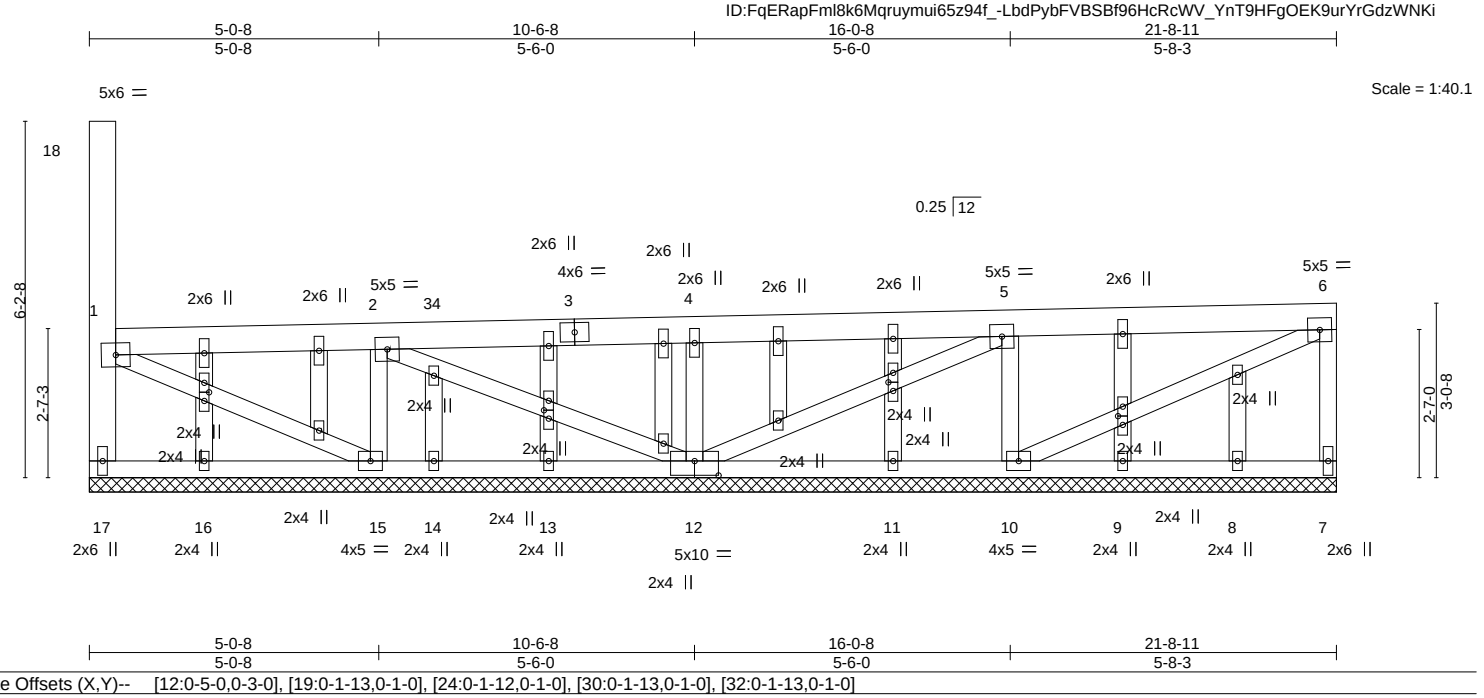

Plate Offsets (X,Y)-- [12:0-5-0,0-3-0], [19:0-1-13,0-1-0], [24:0-1-12,0-1-0], [30:0-1-13,0-1-0], [32:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	-0.01	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 17-18: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-2-10 oc bracing.

REACTIONS. All bearings 21-8-11.
(lb) - Max Horz 17=194(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 17=-667(LC 44), 7=-541(LC 53), 15=-144(LC 53), 10=-126(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 16, 14, 13, 11, 9, 8 except 17=722(LC 51), 7=609(LC 64), 15=575(LC 21), 12=512(LC 21), 10=496(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-17=-711/659, 1-2=-1230/1253, 2-4=-1210/1247, 4-5=-1045/1089, 5-6=-1137/1146, 6-7=-597/603
BOT CHORD	16-17=-655/582, 15-16=-1299/1191, 14-15=-337/292, 13-14=-544/499, 12-13=-1053/1007, 11-12=-1120/1109, 10-11=-428/417, 9-10=-1120/1126, 8-9=-728/735, 7-8=-328/335
WEBS	1-15=-1419/1483, 2-15=-736/610, 2-12=-1142/1170, 4-12=-400/204, 5-12=-1154/1138, 5-10=-716/673, 6-10=-1250/1245

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 17=667, 7=541, 15=144, 10=126.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-8-11 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-70, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-34=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-60, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-34=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-66, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-126-to-34=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-39, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-34=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-78, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-158-to-34=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-34=-42, 7-17=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-34=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-51, 7-17=-20
   Horz: 1-17=13, 1-18=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-34=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-57, 7-17=-20
   Horz: 1-17=-3, 1-18=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-34=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-51, 7-17=-20
   Horz: 1-17=10, 1-18=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-34=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-57, 7-17=-20
   Horz: 1-17=-2, 1-18=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-34=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-57, 7-17=-20
   Horz: 1-2=7200, 2-34=7200, 4-34=7200, 4-5=7200, 5-6=7200
   Drag: 7-17=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-34=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-34=-63, 7-17=-20
   Horz: 1-2=-7200, 2-34=-7200, 4-34=-7200, 4-5=-7200, 5-6=-7200
   Drag: 7-17=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-34=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 6-34=-63, 7-17=-20
Horz: 1-2=7200, 2-34=7200, 4-34=7200, 4-5=7200, 5-6=7200
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 1=-123-to-34=-63

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-69, 7-17=-20
Horz: 1-2=-7200, 2-34=-7200, 4-34=-7200, 4-5=-7200, 5-6=-7200
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 1=-129-to-34=-69

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-36, 7-17=-20
Horz: 1-2=7200, 2-34=7200, 4-34=7200, 4-5=7200, 5-6=7200
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-34=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-42, 7-17=-20
Horz: 1-2=-7200, 2-34=-7200, 4-34=-7200, 4-5=-7200, 5-6=-7200
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-34=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-48, 7-17=-20
Horz: 1-17=13, 1-18=27, 1-2=7191, 2-34=7191, 4-34=7191, 4-5=7191, 5-6=7191, 6-7=3
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-34=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-54, 7-17=-20
Horz: 1-17=13, 1-18=27, 1-2=-7209, 2-34=-7209, 4-34=-7209, 4-5=-7209, 5-6=-7209, 6-7=3
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-34=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-54, 7-17=-20
Horz: 1-17=-3, 1-18=-27, 1-2=7197, 2-34=7197, 4-34=7197, 4-5=7197, 5-6=7197, 6-7=-13
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-34=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-60, 7-17=-20
Horz: 1-17=-3, 1-18=-27, 1-2=-7203, 2-34=-7203, 4-34=-7203, 4-5=-7203, 5-6=-7203, 6-7=-13
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-34=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-48, 7-17=-20
Horz: 1-17=10, 1-18=-18, 1-2=7191, 2-34=7191, 4-34=7191, 4-5=7191, 5-6=7191, 6-7=2
Drag: 7-17=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-34=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 6-34=-54, 7-17=-20
Horz: 1-17=10, 1-18=-18, 1-2=-7209, 2-34=-7209, 4-34=-7209, 4-5=-7209, 5-6=-7209, 6-7=2
Drag: 7-17=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-34=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 6-34=-54, 7-17=-20

Horz: 1-17=-2, 1-18=-18, 1-2=7197, 2-34=7197, 4-34=7197, 4-5=7197, 5-6=7197, 6-7=-10

Drag: 7-17=-150

Trapezoidal Loads (plf)

Vert: 1=-114-to-34=-54

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 6-34=-60, 7-17=-20

Horz: 1-17=-2, 1-18=-18, 1-2=-7203, 2-34=-7203, 4-34=-7203, 4-5=-7203, 5-6=-7203, 6-7=-10

Drag: 7-17=150

Trapezoidal Loads (plf)

Vert: 1=-120-to-34=-60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M4	Monopitch	2	1	I51032216
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:07 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-H_k9MHGmj4RNOQR_Y1Zz3zslG5orsAOSL91xLVzWNKg

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	6-5-2

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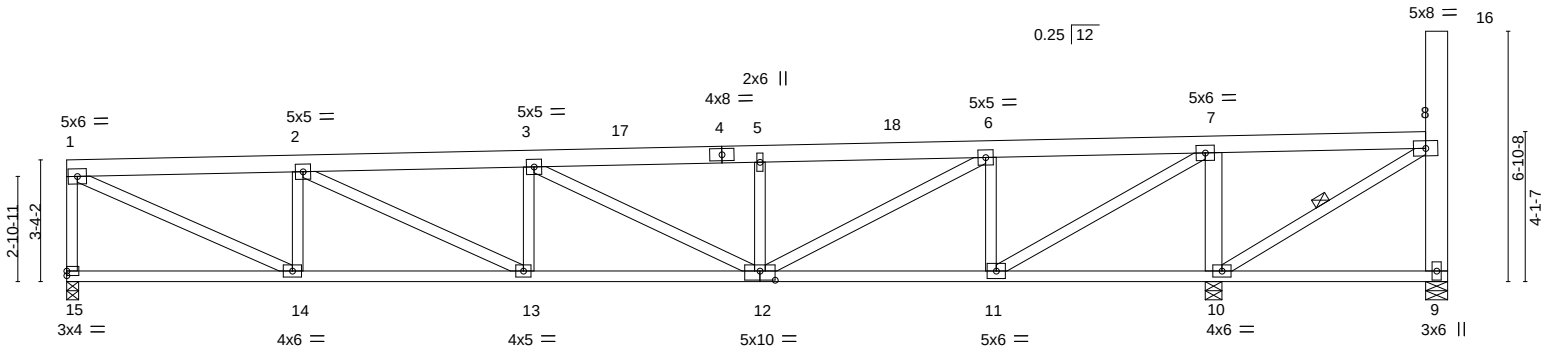

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	6-5-2

Plate Offsets (X,Y)-- [12:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.33	12-13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 9-16: 2x8 SP 2400F 2.0E, 7-10: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-4-7 oc bracing.
WEBS	1 Row at midpt 8-10

REACTIONS. (size) 15=0-3-15, 9=0-7-4, 10=0-5-8
Max Horz 15=186(LC 12)
Max Uplift 9=-690(LC 2)
Max Grav 15=1366(LC 21), 9=3(LC 11), 10=3263(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-15=-1306/218, 1-2=-2211/296, 2-3=-2934/420, 3-5=-2430/386, 5-6=-2431/391, 6-7=-759/213, 7-8=-380/1671, 8-9=-94/737
BOT CHORD	14-15=-260/180, 13-14=-483/2206, 12-13=-524/2928, 11-12=-164/755, 10-11=-1664/256
WEBS	1-14=-344/2403, 2-14=-909/232, 2-13=-132/803, 3-12=-564/122, 5-12=-534/160, 6-12=-286/1907, 6-11=-1319/280, 7-11=-403/2811, 7-10=-2073/362, 8-10=-1998/298

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-7, Corner(3) 22-7-7 to 37-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=690.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-149

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-8=-119

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-68, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-68-to-8=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-8=-98

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-81, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-81-to-8=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-8=-121

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-15=-20
Horz: 1-15=13, 1-8=-9, 8-9=3, 8-16=27
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-15=-20
Horz: 1-15=-3, 1-8=-3, 8-9=-13, 8-16=-27
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-116

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 9-15=-20
Horz: 1-15=10, 1-8=-9, 8-9=2, 8-16=18
Trapezoidal Loads (plf)
Vert: 7=-51-to-8=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 9-15=-20
Horz: 1-15=-2, 1-8=-3, 8-9=-10, 8-16=18
Trapezoidal Loads (plf)
Vert: 7=-57-to-8=-116

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 9-15=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-8=-149

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M5	Monopitch	1	1	I51032217
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:08 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-lAlXadHOUNZE0a0B6k4CcAPvLV9ubcpbapmVtxzWNKf

6-4-8	11-7-12	17-1-12	22-7-12	28-1-12	33-10-0
6-4-8	5-3-4	5-6-0	5-6-0	5-6-0	5-8-4

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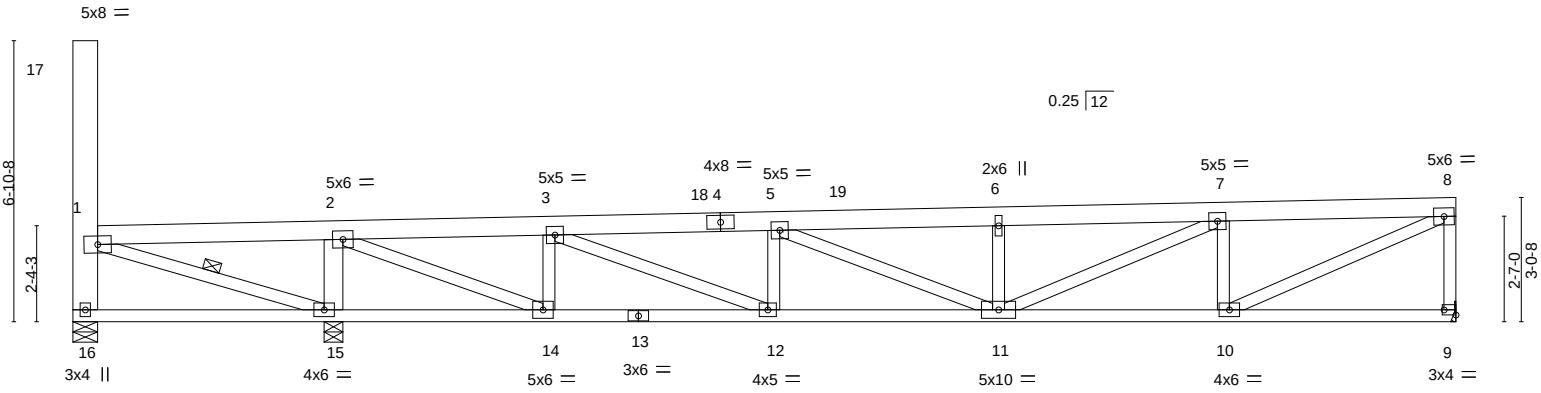

6-4-8	11-7-12	17-1-12	22-7-12	28-1-12	33-10-0
6-4-8	5-3-4	5-6-0	5-6-0	5-6-0	5-8-4

Plate Offsets (X,Y)-- [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.17	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.34	11-12	>952	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 16-17: 2x8 SP 2400F 2.0E, 2-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-3-11 oc bracing.
WEBS	1 Row at midpt 1-15

REACTIONS. (size) 16=0-7-4, 9=Mechanical, 15=0-5-8
Max Horz 16=227(LC 12)
Max Uplift 16=-342(LC 2)
Max Grav 16=55(LC 12), 9=1212(LC 21), 15=2590(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-127/388, 1-2=-391/1682, 2-3=-1147/223, 3-5=-2827/451, 5-6=-3071/472, 6-7=-3071/476, 7-8=-2120/326, 8-9=-1157/219
BOT CHORD	15-16=-444/570, 14-15=-1673/427, 12-14=-274/1140, 11-12=-499/2822, 10-11=-354/2114
WEBS	1-15=-1818/581, 2-15=-1881/360, 2-14=-508/3026, 3-14=-1030/251, 3-12=-292/1812, 5-12=-562/176, 5-11=-71/264, 6-11=-433/145, 7-11=-177/1048, 7-10=-886/236, 8-10=-373/2301

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-4, Corner(3) 18-8-4 to 33-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=342.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-67, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=13, 1-17=27, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-3, 1-17=-27, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=10, 1-17=-18, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-2, 1-17=-18, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M5A	Monopitch	2	1	I51032218
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:09 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-DMsvnzI0Ehh5dkbNgSbR8Oy58vV5K32lpTW2POzWNKe

6-4-8	11-7-12	17-1-12	22-7-12	28-1-12	33-9-15
6-4-8	5-3-4	5-6-0	5-6-0	5-6-0	5-8-3

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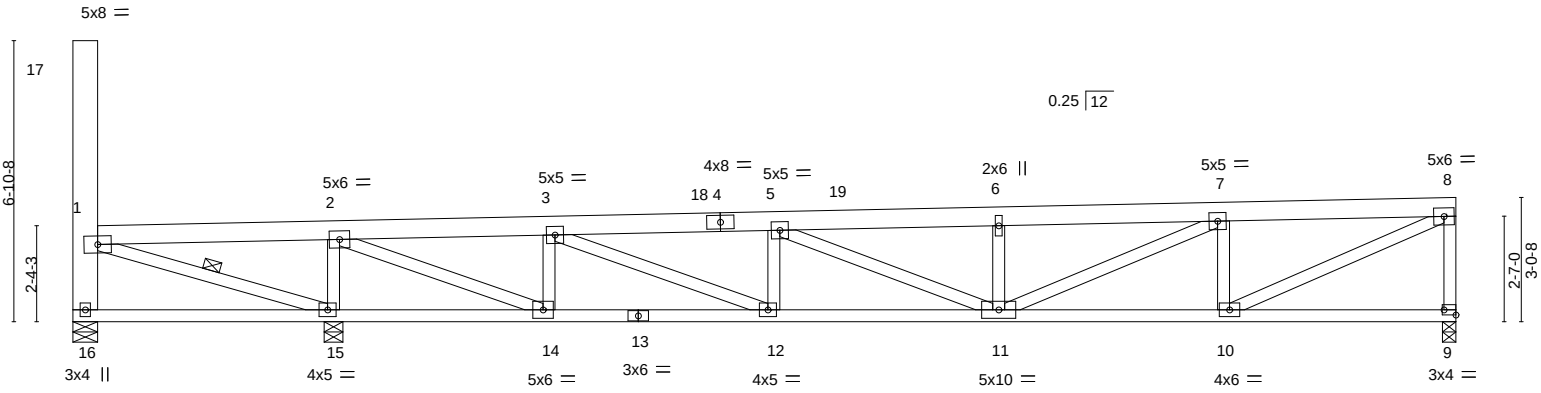

6-4-8	11-7-12	17-1-12	22-7-12	28-1-12	33-9-15
6-4-8	5-3-4	5-6-0	5-6-0	5-6-0	5-8-3

Plate Offsets (X,Y)-- [9:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.17	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.35	11-12	>948	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 216 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
16-17: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS 1 Row at midpt 1-15

REACTIONS. (size) 16=0-7-4, 9=0-3-15, 15=0-5-8
Max Horz 16=227(LC 12)
Max Uplift 16=-340(LC 2)
Max Grav 16=55(LC 12), 9=1213(LC 21), 15=2586(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-126/385, 1-2=-390/1674, 2-3=-1153/224, 3-5=-2831/451, 5-6=-3072/472, 6-7=-3072/476, 7-8=-2119/326, 8-9=-1157/219
BOT CHORD 15-16=-444/570, 14-15=-1665/426, 12-14=-276/1146, 11-12=-499/2826, 10-11=-354/2114
WEBS 1-15=-1812/580, 2-15=-1878/360, 2-14=-508/3025, 3-14=-1030/251, 3-12=-291/1810, 5-12=-561/176, 5-11=-71/262, 6-11=-433/145, 7-11=-177/1051, 7-10=-887/236, 8-10=-373/2301

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-3, Corner(3) 18-8-3 to 33-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=340.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-67, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-39, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-80, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-42, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=13, 1-17=27, 1-8=-9, 8-9=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-3, 1-17=-27, 1-8=-3, 8-9=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-51, 9-16=-20
Horz: 1-16=10, 1-17=-18, 1-8=-9, 8-9=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-8=-57, 9-16=-20
Horz: 1-16=-2, 1-17=-18, 1-8=-3, 8-9=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-70, 9-16=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M6	Monopitch	3	1	I51032219
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:10 2022 Page 1
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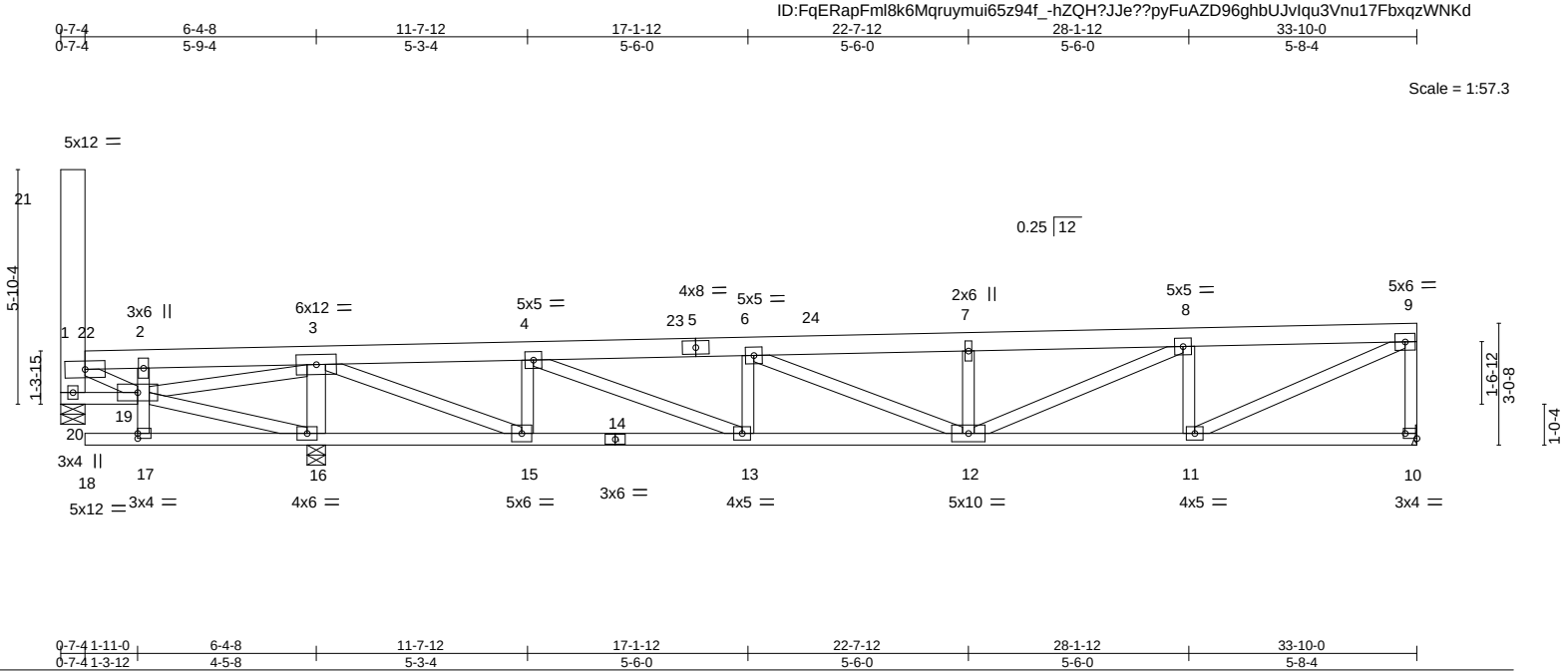

Plate Offsets (X,Y)-- [10:Edge,0-1-8], [17:0-0-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.34	12-13	>978	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
20-21: 2x8 SP 2400F 2.0E, 3-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-11 oc bracing. Except: 10-0-0 oc bracing: 17-19

REACTIONS. (size) 20=0-7-4, 10=Mechanical, 16=0-5-8
Max Horz 20=222(LC 14)
Max Uplift 20=-394(LC 2)
Max Grav 20=56(LC 12), 10=1193(LC 21), 16=2711(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-165/376, 1-2=-728/957, 2-3=-649/931, 3-4=-968/168, 4-6=-2689/419, 6-7=-2984/469, 7-8=-2984/474, 8-9=-2078/343, 9-10=-1138/208
BOT CHORD 19-20=-596/829, 2-19=-316/96, 15-16=-1977/327, 13-15=-167/962, 12-13=-420/2684, 11-12=-331/2073
WEBS 16-19=-1918/280, 3-19=-537/1308, 3-16=-2124/471, 3-15=-488/3162, 4-15=-1077/248, 4-13=-273/1854, 6-13=-578/168, 6-12=-49/321, 7-12=-434/146, 8-12=-149/999, 8-11=-866/224, 9-11=-347/2256, 1-19=-822/312

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-4, Corner(3) 18-8-4 to 33-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=394.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-22=-70, 3-9=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-150-to-3=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-60, 3-9=-60, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-120-to-3=-62

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-67, 3-9=-67, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-127-to-3=-70

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-39, 3-9=-39, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-99-to-3=-41

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-80, 3-9=-80, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-160-to-3=-83

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-42, 3-9=-42, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-122-to-3=-45

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-51, 3-9=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=13, 1-21=27, 1-9=-9, 9-10=3
Trapezoidal Loads (plf)
Vert: 22=-111-to-3=-54

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-57, 3-9=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-3, 1-21=-27, 1-9=-3, 9-10=-13
Trapezoidal Loads (plf)
Vert: 22=-117-to-3=-59

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-51, 3-9=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=10, 1-21=-18, 1-9=-9, 9-10=2
Trapezoidal Loads (plf)
Vert: 22=-111-to-3=-54

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-57, 3-9=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-2, 1-21=-18, 1-9=-3, 9-10=-10
Trapezoidal Loads (plf)
Vert: 22=-117-to-3=-59

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 3-9=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-150-to-3=-73

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M7	Monopitch	5	1	I51032220
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:11 2022 Page 1
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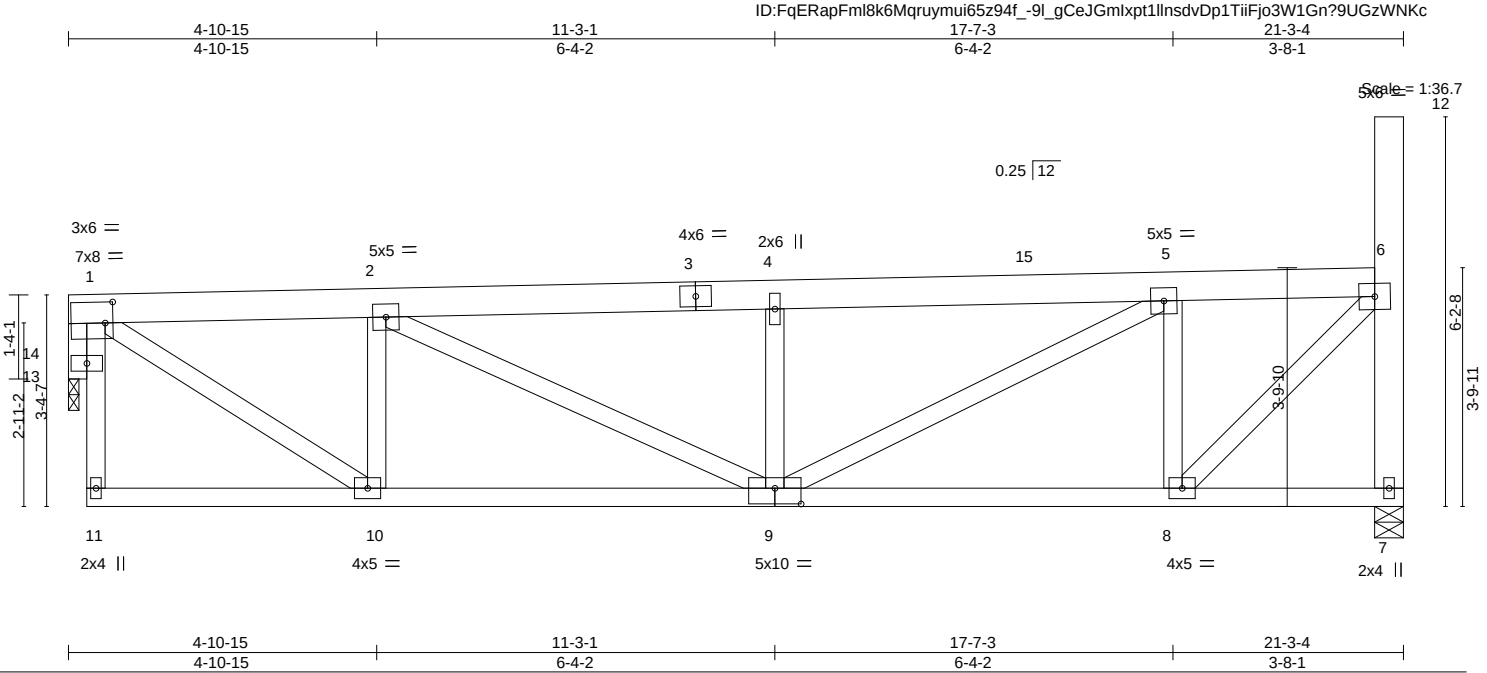

Plate Offsets (X,Y)-- [1:0-1-8,0-4-0], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.05	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.12	9-10	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-12: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 7=0-5-8, 14=0-2-0
Max Horz 14=162(LC 14)
Max Grav 7=1230(LC 22), 14=1007(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1335/462, 2-4=-1818/598, 4-5=-1819/604, 5-6=-1054/422, 6-7=-1203/296
BOT CHORD 9-10=-382/1333, 8-9=-233/1049
WEBS 1-10=-366/1467, 2-10=-715/283, 2-9=-145/534, 4-9=-505/244, 5-9=-274/865, 5-8=-917/307, 6-8=-340/1442, 1-14=-1055/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-15=-70, 7-11=-20
Trapezoidal Loads (plf)
Vert: 15=-70-to-6=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-60, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-66, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-66-to-6=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-39, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-39-to-6=-99
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
      Vert: 1-15=-30, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-30-to-6=-110
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-77, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-77-to-6=-157
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-42, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-42-to-6=-122
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-51, 7-11=-20
      Horz: 11-13=13, 1-6=-9, 6-7=3, 6-12=27
   Trapezoidal Loads (plf)
      Vert: 15=-51-to-6=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-57, 7-11=-20
      Horz: 11-13=-3, 1-6=-3, 6-7=-13, 6-12=-27
   Trapezoidal Loads (plf)
      Vert: 15=-57-to-6=-117
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-51, 7-11=-20
      Horz: 11-13=10, 1-6=-9, 6-7=2, 6-12=18
   Trapezoidal Loads (plf)
      Vert: 15=-51-to-6=-111
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-57, 7-11=-20
      Horz: 11-13=-2, 1-6=-3, 6-7=-10, 6-12=18
   Trapezoidal Loads (plf)
      Vert: 15=-57-to-6=-117
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-70, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-70-to-6=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M7A	MONO TRUSS	3	1	I51032221
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:12 2022 Page 1
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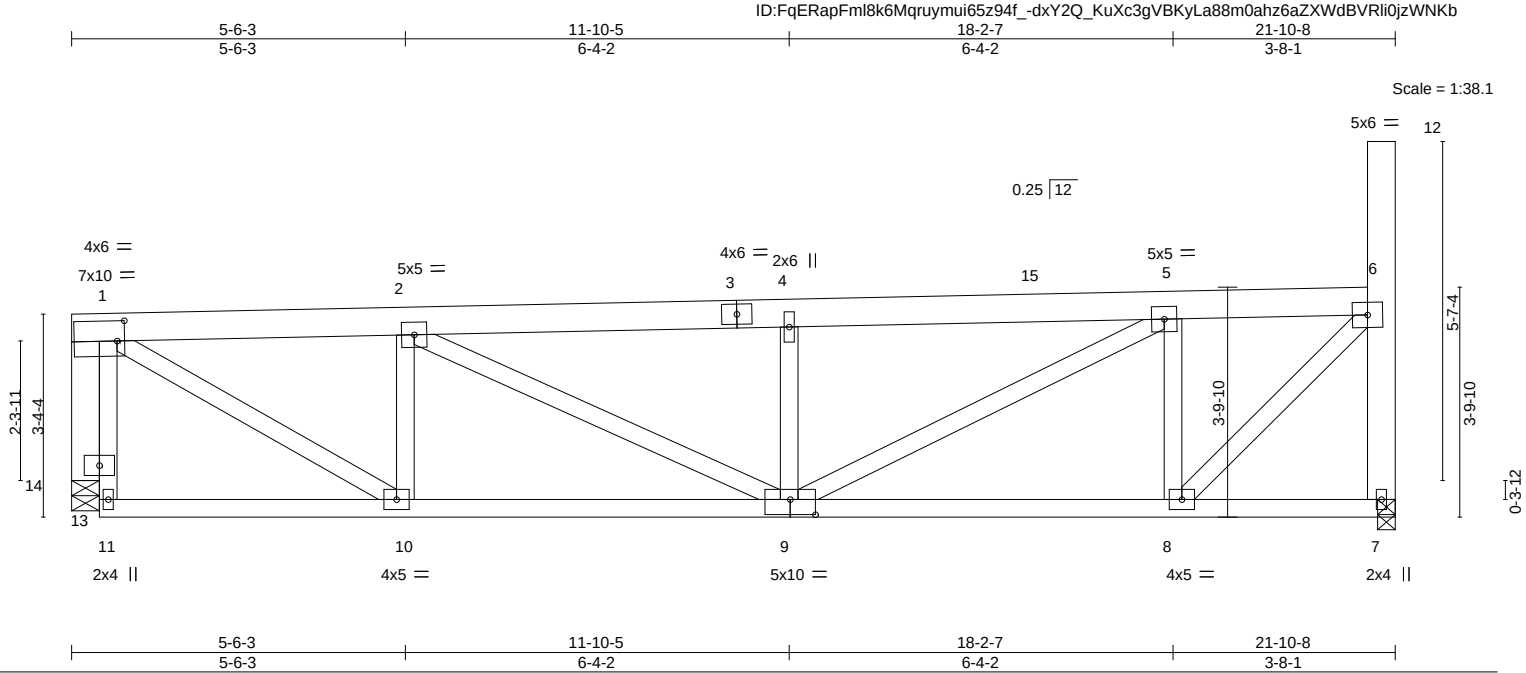

Plate Offsets (X,Y)-- [1:0-1-8,0-4-0], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.06	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.13	9-10	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-12: 2x6 SP No.1
OTHERS	2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-5-0 oc bracing: 9-10.

REACTIONS. (size) 7=0-3-8, 14=0-5-8
Max Horz 14=156(LC 14)
Max Grav 7=1253(LC 22), 14=1028(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1455/422, 2-4=-1893/568, 4-5=-1891/573, 5-6=-1079/409, 6-7=-1226/313
BOT CHORD	9-10=-488/1451, 8-9=-231/1074
WEBS	1-10=-410/1505, 2-10=-671/283, 2-9=-155/486, 4-9=-510/243, 5-9=-322/918, 5-8=-940/311, 6-8=-349/1476, 1-14=-1043/279

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-15=-70, 7-11=-20
   Trapezoidal Loads (plf)
   Vert: 15=-70-to-6=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-60, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-60-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-66, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-66-to-6=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-39, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-39-to-6=-99
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
      Vert: 1-15=-30, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-30-to-6=-110
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-77, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-77-to-6=-157
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-42, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-42-to-6=-122
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-51, 7-11=-20
      Horz: 11-13=13, 1-6=-9, 6-7=3, 6-12=27
   Trapezoidal Loads (plf)
      Vert: 15=-51-to-6=-111
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-57, 7-11=-20
      Horz: 11-13=-3, 1-6=-3, 6-7=-13, 6-12=-27
   Trapezoidal Loads (plf)
      Vert: 15=-57-to-6=-117
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-51, 7-11=-20
      Horz: 11-13=10, 1-6=-9, 6-7=2, 6-12=18
   Trapezoidal Loads (plf)
      Vert: 15=-51-to-6=-111
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-15=-57, 7-11=-20
      Horz: 11-13=-2, 1-6=-3, 6-7=-10, 6-12=18
   Trapezoidal Loads (plf)
      Vert: 15=-57-to-6=-117
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-15=-70, 7-11=-20
   Trapezoidal Loads (plf)
      Vert: 15=-70-to-6=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M7AGE	GABLE	1	1	I51032222
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:15 2022 Page 1
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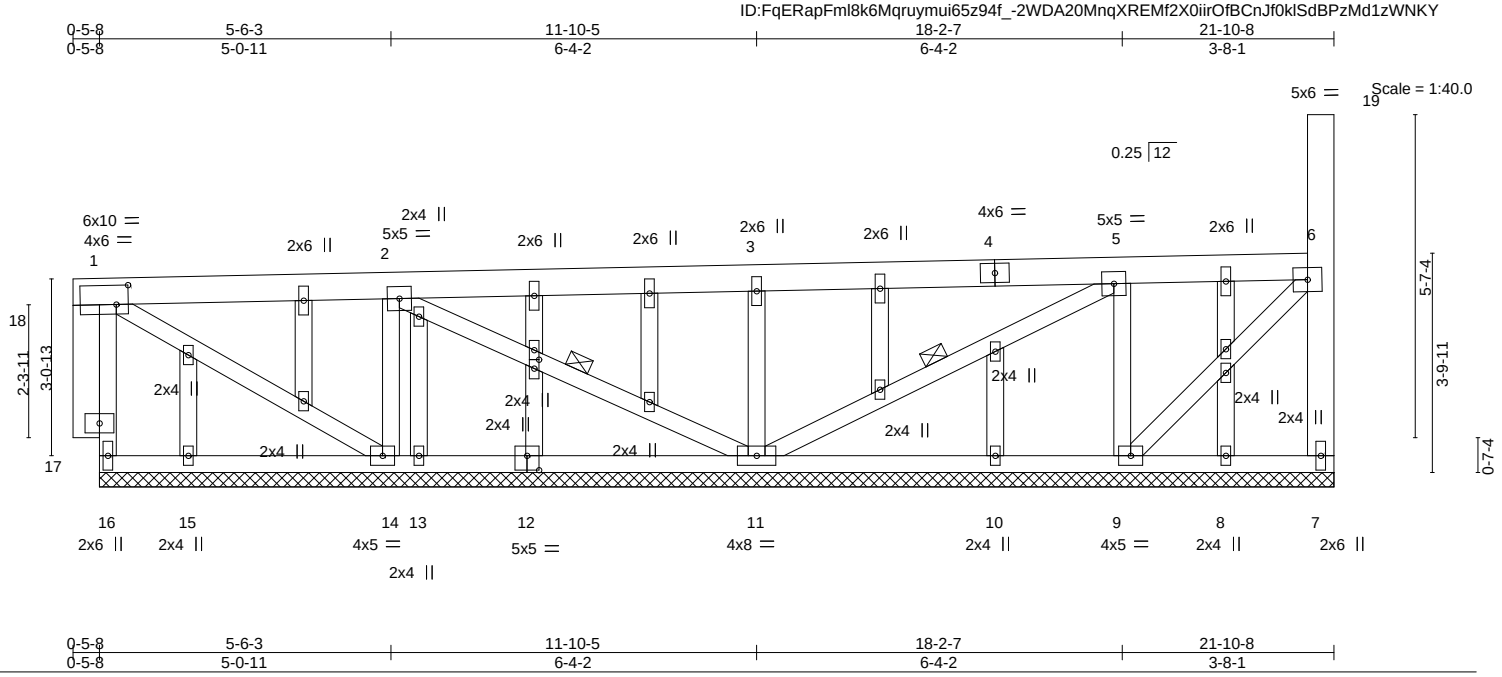

Plate Offsets (X,Y)-- [12:0-2-8,0-3-0], [18:0-2-8,0-4-0], [23:0-1-14,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	-0.01	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 178 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 17-18,7-19: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-2-2 oc bracing.
WEBS	1 Row at midpt 2-11, 5-11

REACTIONS. All bearings 21-5-0.
(lb) - Max Horz 16=197(LC 51)
Max Uplift All uplift 100 lb or less at joint(s) 11, 8 except 7=-1006(LC 47), 16=-824(LC 44), 14=-259(LC 47), 9=-492(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 15, 13, 10, 8 except 7=1034(LC 62), 16=872(LC 51), 14=478(LC 36), 11=682(LC 22), 9=805(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-856/809, 1-2=-1272/1245, 2-3=-1374/1296, 3-5=-1387/1323, 5-6=-1140/1050, 6-7=-1008/1083
BOT CHORD	15-16=-585/435, 14-15=-1316/1138, 13-14=-358/257, 11-13=-1235/1134, 10-11=-1036/1013, 9-10=-334/312, 8-9=-707/721, 7-8=-347/362
WEBS	1-14=-1480/1568, 2-14=-761/717, 2-11=-1212/1234, 3-11=-511/245, 5-11=-1206/1171, 5-9=-792/692, 6-9=-1447/1382

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8 except (jt=lb) 7=1006, 16=824, 14=259, 9=492.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 23, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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March 28,2022

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NOTES-

13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-10-8 for 200.0 plf.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-72-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-61-to-6=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-66, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-67-to-6=-126
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-39, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-40-to-6=-99
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-4=-30, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-32-to-6=-110
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-77, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-79-to-6=-157
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-42, 7-16=-20
   Trapezoidal Loads (plf)
   Vert: 4=-44-to-6=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=-13, 1-4=-51, 7-16=-20
   Horz: 1-16=13, 1-6=-9, 6-7=3, 6-19=18
   Trapezoidal Loads (plf)
   Vert: 4=-52-to-6=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=3, 1-4=-57, 7-16=-20
   Horz: 1-16=-3, 1-6=-3, 6-7=-13, 6-19=-27
   Trapezoidal Loads (plf)
   Vert: 4=-58-to-6=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=-10, 1-4=-51, 7-16=-20
   Horz: 1-16=10, 1-6=-9, 6-7=2, 6-19=18
   Trapezoidal Loads (plf)
   Vert: 4=-52-to-6=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-17=2, 1-4=-57, 7-16=-20
   Horz: 1-16=-2, 1-6=-3, 6-7=-10, 6-19=18
   Trapezoidal Loads (plf)
   Vert: 4=-58-to-6=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-4=-57, 7-16=-20
   Horz: 1-5=7200, 5-6=7200
   Drag: 7-16=-150
   Trapezoidal Loads (plf)
   Vert: 4=-58-to-6=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-4=-63, 7-16=-20
Horz: 1-5=-7200, 5-6=-7200
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-64-to-6=-123

36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-62, 7-16=-20
Horz: 1-5=7200, 5-6=7200
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-64-to-6=-122

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-69, 7-16=-20
Horz: 1-5=-7200, 5-6=-7200
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-70-to-6=-129

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 7-16=-20
Horz: 1-5=7200, 5-6=7200
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-37-to-6=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-42, 7-16=-20
Horz: 1-5=-7200, 5-6=-7200
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-43-to-6=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-13, 1-4=-48, 7-16=-20
Horz: 1-16=13, 1-5=7191, 5-6=7191, 6-7=3, 6-19=18
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-49-to-6=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-13, 1-4=-54, 7-16=-20
Horz: 1-16=13, 1-5=-7209, 5-6=-7209, 6-7=3, 6-19=18
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-56-to-6=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=3, 1-4=-54, 7-16=-20
Horz: 1-16=-3, 1-5=7196, 5-6=7196, 6-7=-13, 6-19=-27
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-55-to-6=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=3, 1-4=-60, 7-16=-20
Horz: 1-16=-3, 1-5=-7203, 5-6=-7203, 6-7=-13, 6-19=-27
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-61-to-6=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=-10, 1-4=-48, 7-16=-20
Horz: 1-16=10, 1-5=7191, 5-6=7191, 6-7=2, 6-19=18
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-49-to-6=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-17=-10, 1-4=-54, 7-16=-20
Horz: 1-16=10, 1-5=-7209, 5-6=-7209, 6-7=2, 6-19=18
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-56-to-6=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=2, 1-4=-54, 7-16=-20
Horz: 1-16=-2, 1-5=7196, 5-6=7196, 6-7=-10, 6-19=18
Drag: 7-16=-150
Trapezoidal Loads (plf)
Vert: 4=-55-to-6=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-17=2, 1-4=-60, 7-16=-20
Horz: 1-16=-2, 1-5=-7203, 5-6=-7203, 6-7=-10, 6-19=18
Drag: 7-16=150
Trapezoidal Loads (plf)
Vert: 4=-61-to-6=-120

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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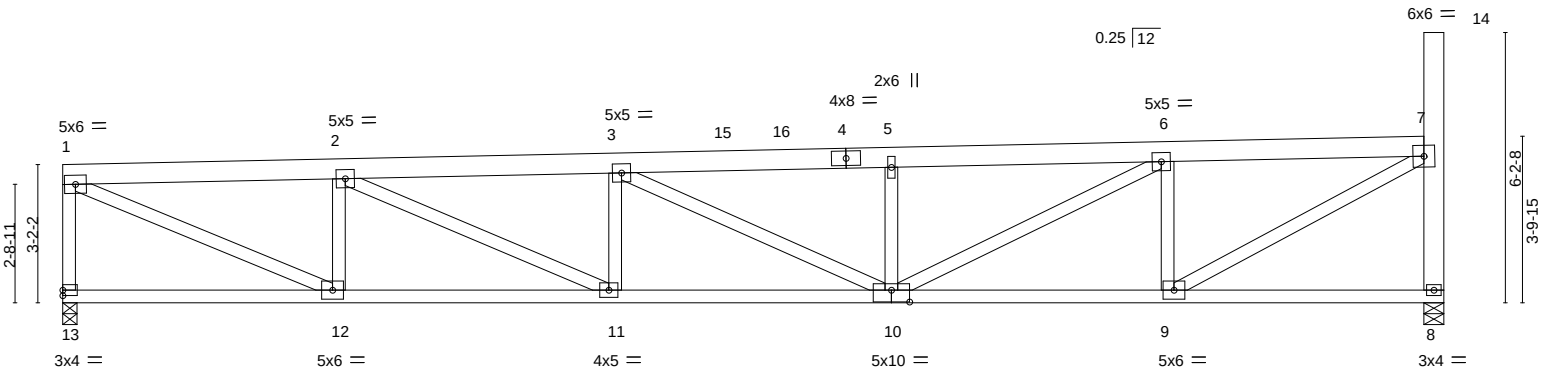
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M13	Monopitch	20	1	I51032223
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:33 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HRhIEfsRjd8CJCrSZuy?hoS?mOCNunFRXso89TzWNLC

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:52.9



6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44	10-11	>846	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-13: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 13=0-3-15, 8=0-5-8
Max Horz 13=167(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1516/305, 1-2=-2782/477, 2-3=-3979/707, 3-5=-3845/718, 5-6=-3845/723, 6-7=-2537/541, 7-8=-1729/319
BOT CHORD 12-13=-250/164, 11-12=-633/2777, 10-11=-761/3973, 9-10=-405/2530
WEBS 1-12=-536/2996, 2-12=-1107/305, 2-11=-247/1318, 3-11=-428/178, 5-10=-493/182, 6-10=-313/1478, 6-9=-1257/316, 7-9=-479/2808

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

March 28,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M13GE	GABLE	2	1	I51032224
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:37 2022 Page 1
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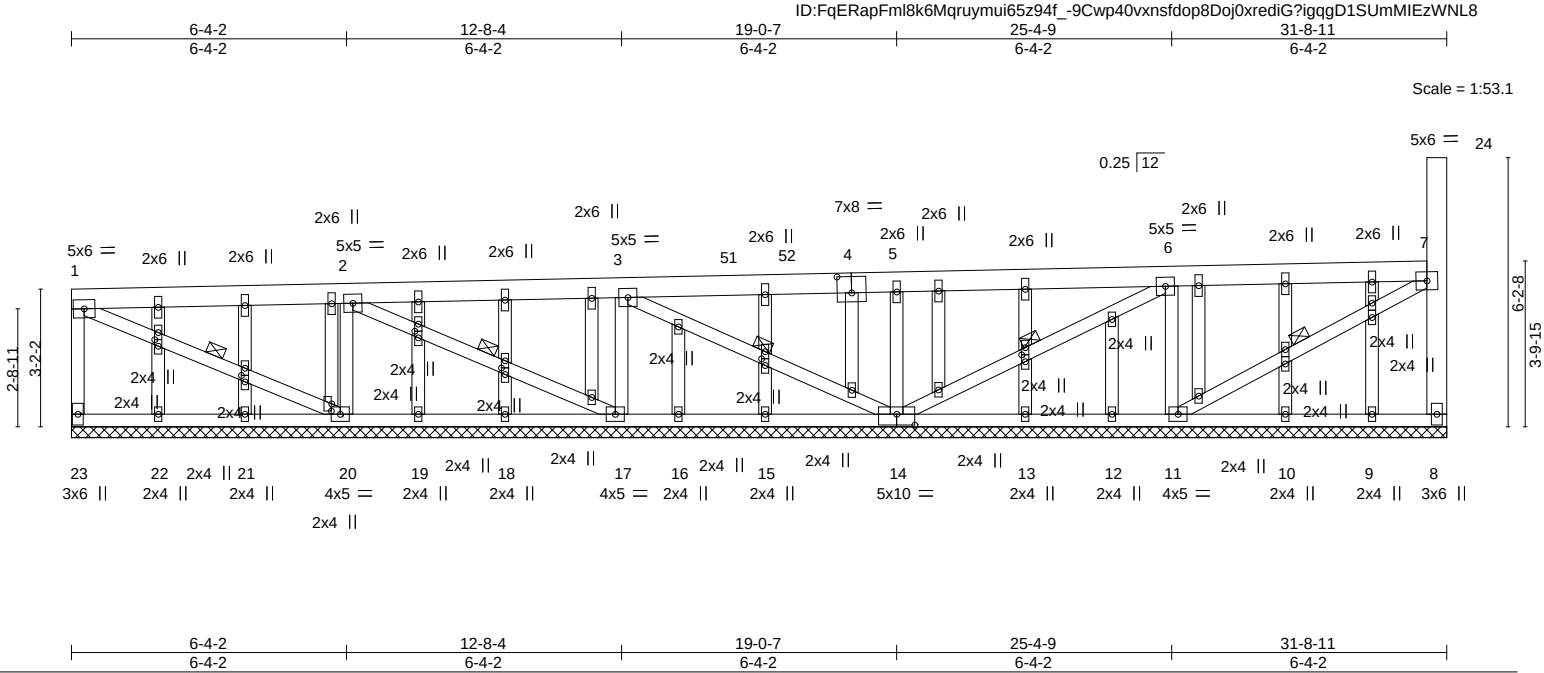

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [14:0-5-0,0-3-0], [20:0-2-0,0-0-2], [25:0-1-13,0-1-0], [27:0-1-13,0-1-0], [30:0-1-13,0-1-0], [32:0-1-13,0-1-0], [38:0-1-14,0-1-0], [43:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.02	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 258 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-24: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-14 oc bracing.
WEBS	1 Row at midpt 1-20, 2-17, 3-14, 6-14, 7-11

REACTIONS. All bearings 31-8-11.
(lb) - Max Horz 23=167(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 20, 17, 14, 9 except 23=-704(LC 44), 8=-754(LC 47), 11=-196(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 22, 21, 19, 18, 16, 15, 13, 12, 10, 9 except 23=779(LC 51), 8=855(LC 36), 20=575(LC 21), 17=536(LC 21), 14=616(LC 21), 11=665(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-747/697, 1-2=-1448/1428, 2-3=-1510/1465, 3-5=-1425/1372, 5-6=-1332/1292, 6-7=-1435/1402, 7-8=-813/830
BOT CHORD	22-23=-608/490, 21-22=-1008/890, 20-21=-1477/1359, 19-20=-335/267, 18-19=-735/667, 17-18=-1273/1205, 15-16=-627/593, 14-15=-1234/1200, 13-14=-1245/1227, 12-13=-652/634, 11-12=-252/234, 10-11=-1234/1266, 9-10=-710/741, 8-9=-310/341
WEBS	1-20=-1561/1617, 2-20=-904/781, 2-17=-1418/1441, 3-17=-845/762, 3-14=-1332/1321, 5-14=-483/184, 6-14=-1369/1345, 6-11=-911/763, 7-11=-1548/1525

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 17, 14, 9 except (jt=lb) 23=704, 8=754, 11=196.

Continued to page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

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NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-11 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=13, 1-7=-9, 7-8=3, 7-24=27
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-3, 1-7=-3, 7-8=-13, 7-24=-27
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=10, 1-7=-9, 7-8=2, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-2, 1-7=-3, 7-8=-10, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-2=7200, 2-51=7200, 51-52=7200, 4-52=7200, 4-6=7200, 6-7=7200
   Drag: 8-23=-150
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-63, 8-23=-20
   Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 4-52=-7200, 4-6=-7200, 6-7=-7200
   Drag: 8-23=150
   Trapezoidal Loads (plf)
   Vert: 6=-63-to-7=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-64, 8-23=-20
Horz: 1-2=7200, 2-51=7200, 51-52=7200, 4-52=7200, 4-6=7200, 6-7=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-64-to-7=-124

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-70, 8-23=-20
Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 4-52=-7200, 4-6=-7200, 6-7=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-130

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 8-23=-20
Horz: 1-2=7200, 2-51=7200, 51-52=7200, 4-52=7200, 4-6=7200, 6-7=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-36-to-7=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-42, 8-23=-20
Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 4-52=-7200, 4-6=-7200, 6-7=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=13, 1-2=7191, 2-51=7191, 51-52=7191, 4-52=7191, 4-6=7191, 6-7=7191, 7-8=3, 7-24=27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=13, 1-2=-7209, 2-51=-7209, 51-52=-7209, 4-52=-7209, 4-6=-7209, 6-7=-7209, 7-8=3, 7-24=27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-3, 1-2=7197, 2-51=7197, 51-52=7197, 4-52=7197, 4-6=7197, 6-7=7197, 7-8=-13, 7-24=-27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-3, 1-2=-7203, 2-51=-7203, 51-52=-7203, 4-52=-7203, 4-6=-7203, 6-7=-7203, 7-8=-13, 7-24=-27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=10, 1-2=7191, 2-51=7191, 51-52=7191, 4-52=7191, 4-6=7191, 6-7=7191, 7-8=2, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=10, 1-2=-7209, 2-51=-7209, 51-52=-7209, 4-52=-7209, 4-6=-7209, 6-7=-7209, 7-8=2, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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MiTek
16023 Swingley Ridge Rd
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-2, 1-2=7197, 2-51=7197, 51-52=7197, 4-52=7197, 4-6=7197, 6-7=7197, 7-8=-10, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-2, 1-2=-7203, 2-51=-7203, 51-52=-7203, 4-52=-7203, 4-6=-7203, 6-7=-7203, 7-8=-10, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M14	Roof Special	10	1	I51032225
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:39 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-5b2ZUixCJTvL17Icv82Pw3i?bpE4IUjKvoFTM7zWNL6

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	35-11-7	37-10-7
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-5-8	1-11-0

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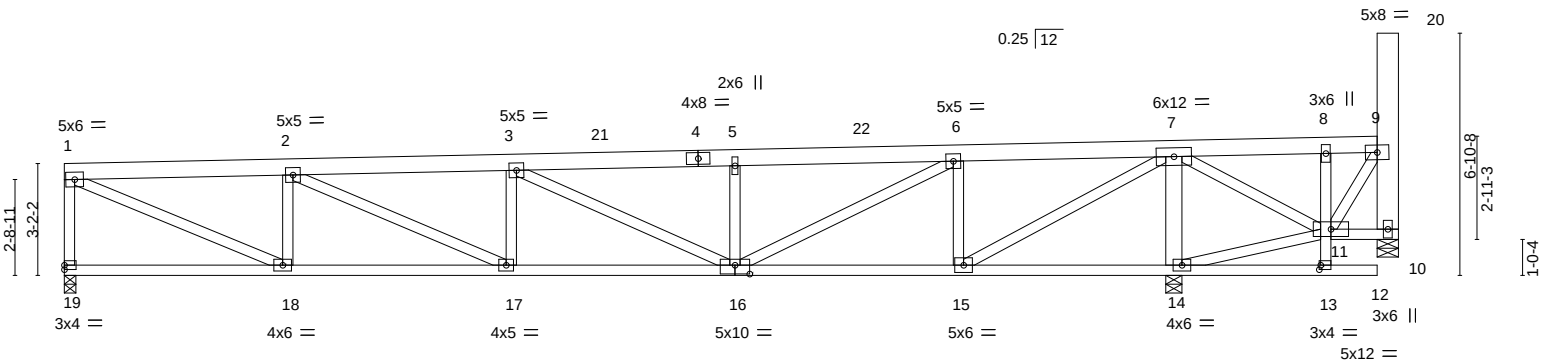

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	35-11-7	37-10-7
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-5-8	1-11-0

Plate Offsets (X,Y)-- [13:0-0-8,0-1-8], [16:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.17	16-17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.35	16-17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 260 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-20: 2x8 SP 2400F 2.0E, 7-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-11-12 oc bracing. Except: 10-0-0 oc bracing: 11-13

REACTIONS. (size) 19=0-3-15, 10=0-7-4, 14=0-5-8
Max Horz 19=180(LC 12)
Max Uplift 10=-794(LC 2)
Max Grav 19=1341(LC 21), 10=16(LC 11), 14=3425(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1281/214, 1-2=-2280/306, 2-3=-2989/427, 3-5=-2406/383, 5-6=-2406/388, 6-7=-616/193, 7-8=-331/588, 8-9=-332/588, 9-10=-152/772
BOT CHORD	18-19=-252/161, 17-18=-485/2275, 16-17=-525/2983, 15-16=-140/611, 14-15=-2002/279, 8-11=-328/88
WEBS	1-18=-350/2449, 2-18=-881/227, 2-17=-128/780, 3-16=-647/131, 5-16=-527/159, 6-16=-301/2020, 6-15=-1362/286, 7-15=-422/3001, 7-14=-2834/437, 11-14=-1945/275, 7-11=-236/1630, 9-11=-999/171

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-13, Corner(3) 22-6-13 to 37-6-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=794.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-70, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-9=-146

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-9=-117

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-68, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-68-to-9=-125

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-9=-96

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-81, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-81-to-9=-157

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-9=-118

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 13-19=-20, 12-13=-20, 10-11=-20
Horz: 1-19=13, 1-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 7=-51-to-9=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 13-19=-20, 12-13=-20, 10-11=-20
Horz: 1-19=-3, 1-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 7=-57-to-9=-114

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 13-19=-20, 12-13=-20, 10-11=-20
Horz: 1-19=10, 1-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 7=-51-to-9=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 13-19=-20, 12-13=-20, 10-11=-20
Horz: 1-19=-2, 1-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 7=-57-to-9=-114

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 13-19=-20, 12-13=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-9=-146

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M15	Monopitch	2	1	I51032226
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:40 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Zncyi2xq4n1CfHtoTsaeTGFB?Cb01x_T8S_0vZzWNL5

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

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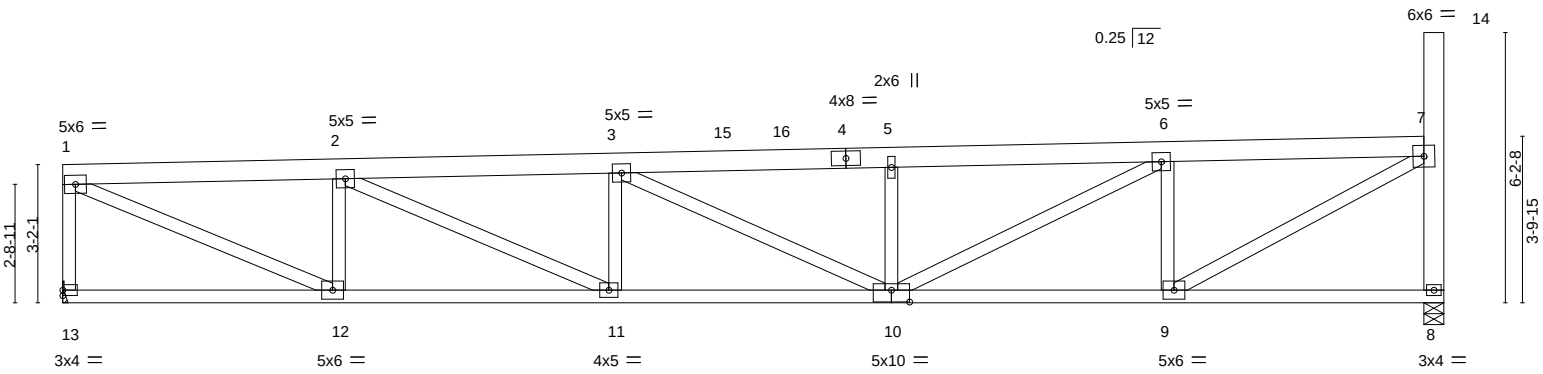

6-4-2 | 12-8-5 | 19-0-7 | 25-4-10 | 31-8-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44	10-11	>846	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-13: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-5-8
Max Horz 13=167(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1516/305, 1-2=-2783/477, 2-3=-3981/707, 3-5=-3846/718, 5-6=-3846/723, 6-7=-2538/541, 7-8=-1729/319
BOT CHORD 12-13=-250/164, 11-12=-633/2778, 10-11=-761/3974, 9-10=-405/2531
WEBS 1-12=-536/2997, 2-12=-1107/305, 2-11=-247/1318, 3-11=-428/178, 5-10=-493/182, 6-10=-313/1479, 6-9=-1257/316, 7-9=-479/2809

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M16	MONO TRUSS	5	1	I51032227
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:41 2022 Page 1
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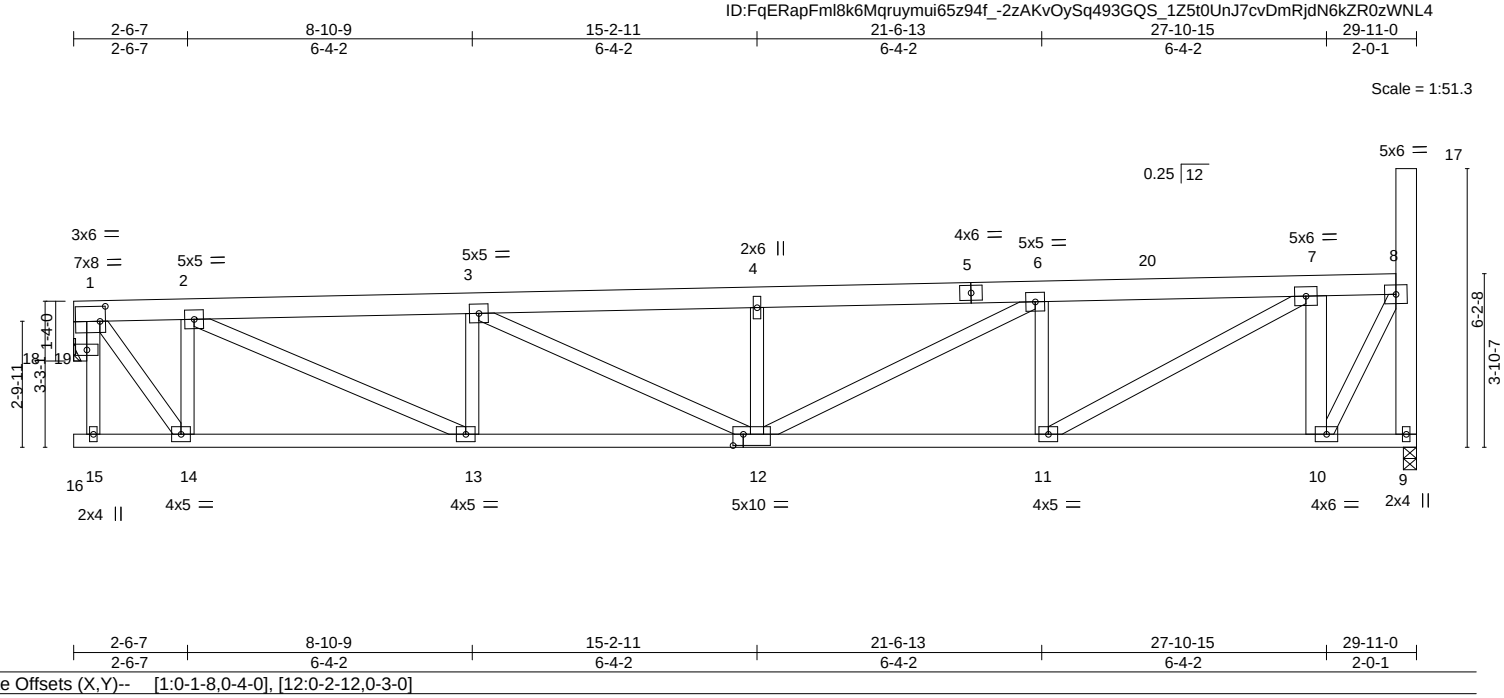

Plate Offsets (X,Y)-- [1:0-1-8,0-4-0], [12:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.17	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.35	12-13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 9-17,7-10: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-8-11 oc bracing: 12-13 8-6-10 oc bracing: 11-12.

REACTIONS. (size) 9=0-3-8, 19=Mechanical
Max Horz 19=161(LC 14)
Max Grav 9=1684(LC 21), 19=1457(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1228/323, 2-3=-3090/666, 3-4=-3558/760, 4-6=-3558/765, 6-7=-2783/637, 7-8=-963/325, 8-9=-1672/274
BOT CHORD	13-14=-278/1230, 12-13=-580/3084, 11-12=-473/2777, 10-11=-147/958
WEBS	1-14=-340/1825, 2-14=-1408/364, 2-13=-374/2043, 3-13=-729/237, 3-12=-97/520, 4-12=-505/189, 6-12=-185/874, 6-11=-902/273, 7-11=-397/2090, 7-10=-1535/343, 8-10=-320/1869, 1-19=-1517/275

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-20=-70, 9-16=-20
   Trapezoidal Loads (plf)
   Vert: 20=-70-to-8=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-60, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-67, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-39, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-79, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-79-to-8=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-42, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 15-18=13, 1-8=-9, 8-9=3, 8-17=27
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 15-18=-3, 1-8=-3, 8-9=-13, 8-17=-27
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-51, 9-16=-20
      Horz: 15-18=10, 1-8=-9, 8-9=2, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-20=-57, 9-16=-20
      Horz: 15-18=-2, 1-8=-3, 8-9=-10, 8-17=18
   Trapezoidal Loads (plf)
      Vert: 20=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-20=-70, 9-16=-20
   Trapezoidal Loads (plf)
      Vert: 20=-70-to-8=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M16GE	GABLE	1	1	I51032228
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:44 2022 Page 1
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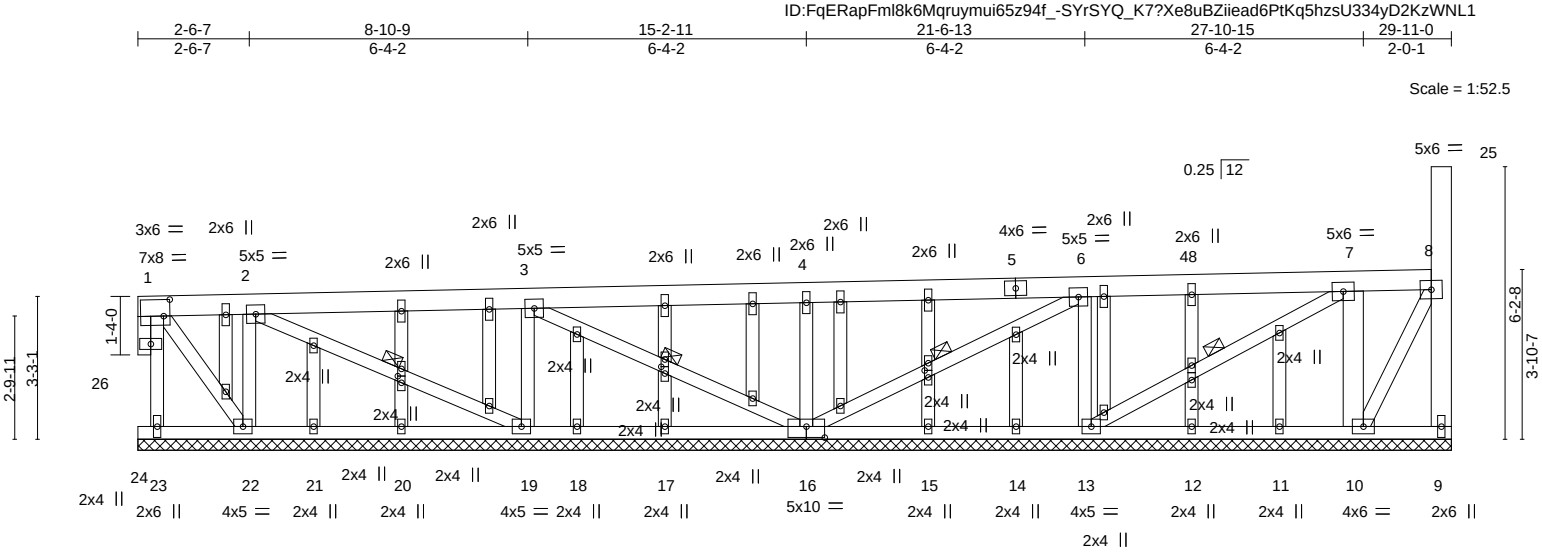

Plate Offsets (X,Y)-- [1:0-1-12,0-4-8], [16:0-5-0,0-3-0], [30:0-1-13,0-1-0], [35:0-1-14,0-1-0], [42:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.01	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 250 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 9-25,7-10: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-5-5 oc bracing.
WEBS	1 Row at midpt 2-19, 3-16, 6-16, 7-13

REACTIONS. All bearings 29-11-0.
(lb) - Max Horz 24=224(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 24, 19, 16 except 23=-1074(LC 44), 9=-1110(LC 47), 22=-515(LC 47), 13=-133(LC 44), 10=-499(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 24, 21, 20, 18, 17, 15, 14, 12, 11 except 23=1154(LC 51), 9=1140(LC 48), 22=719(LC 36), 19=551(LC 21), 16=617(LC 21), 13=550(LC 21), 10=829(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-1164/1113, 1-2=-805/788, 2-3=-1554/1509, 3-4=-1414/1360, 4-6=-1336/1294, 6-7=-1497/1458, 7-8=-793/721, 8-9=-1110/1142
BOT CHORD	23-24=-332/198, 22-23=-722/609, 21-22=-465/390, 20-21=-553/478, 19-20=-1129/1054, 18-19=-300/257, 17-18=-551/508, 16-17=-1195/1153, 15-16=-1188/1168, 14-15=-633/613, 12-13=-1024/1036, 11-12=-538/549, 9-10=-413/416
WEBS	1-22=-1341/1404, 2-22=-732/651, 2-19=-1298/1325, 3-19=-836/750, 3-16=-1273/1260, 4-16=-493/187, 6-16=-1288/1266, 6-13=-826/754, 7-13=-1384/1365, 7-10=-913/734, 8-10=-1252/1231

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 19, 16 except (jt=lb) 23=1074, 9=1110, 22=515, 13=133, 10=499.

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NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 29-11-0 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-70, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-70-to-8=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-60, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-67, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-39, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-79, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-79-to-8=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-48=-42, 9-24=-20
   Trapezoidal Loads (plf)
   Vert: 48=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-26=-13, 1-48=-51, 9-24=-20
   Horz: 1-23=13, 1-8=-9, 8-9=3, 8-25=27
   Trapezoidal Loads (plf)
   Vert: 48=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-26=3, 1-48=-57, 9-24=-20
   Horz: 1-23=-3, 1-8=-3, 8-9=-13, 8-25=-27
   Trapezoidal Loads (plf)
   Vert: 48=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-26=-10, 1-48=-51, 9-24=-20
   Horz: 1-23=10, 1-8=-9, 8-9=2, 8-25=18
   Trapezoidal Loads (plf)
   Vert: 48=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-26=2, 1-48=-57, 9-24=-20
   Horz: 1-23=-2, 1-8=-3, 8-9=-10, 8-25=18
   Trapezoidal Loads (plf)
   Vert: 48=-57-to-8=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-48=-57, 9-24=-20
   Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-48=7200, 7-48=7200, 7-8=7200
   Drag: 9-24=-150
   Trapezoidal Loads (plf)
   Vert: 48=-57-to-8=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-48=-63, 9-24=-20
   Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-48=-7200, 7-48=-7200, 7-8=-7200
   Drag: 9-24=150
   Trapezoidal Loads (plf)
   Vert: 48=-63-to-8=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-48=-64, 9-24=-20
Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-48=7200, 7-48=7200, 7-8=7200
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-64-to-8=-124

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-48=-70, 9-24=-20
Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-48=-7200, 7-48=-7200, 7-8=-7200
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-70-to-8=-130

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-48=-36, 9-24=-20
Horz: 1-2=7200, 2-3=7200, 3-4=7200, 4-5=7200, 5-6=7200, 6-48=7200, 7-48=7200, 7-8=7200
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-36-to-8=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-48=-42, 9-24=-20
Horz: 1-2=-7200, 2-3=-7200, 3-4=-7200, 4-5=-7200, 5-6=-7200, 6-48=-7200, 7-48=-7200, 7-8=-7200
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-42-to-8=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=-13, 1-48=-48, 9-24=-20
Horz: 1-23=13, 1-2=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-48=7191, 7-48=7191, 7-8=7191, 8-9=3, 8-25=27
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-48-to-8=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=-13, 1-48=-54, 9-24=-20
Horz: 1-23=13, 1-2=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-48=-7209, 7-48=-7209, 7-8=-7209, 8-9=3, 8-25=27
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-54-to-8=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=3, 1-48=-54, 9-24=-20
Horz: 1-23=-3, 1-2=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-48=7197, 7-48=7197, 7-8=7197, 8-9=-13, 8-25=-27
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-54-to-8=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=3, 1-48=-60, 9-24=-20
Horz: 1-23=-3, 1-2=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-48=-7203, 7-48=-7203, 7-8=-7203, 8-9=-13, 8-25=-27
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-60-to-8=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=-10, 1-48=-48, 9-24=-20
Horz: 1-23=10, 1-2=7191, 2-3=7191, 3-4=7191, 4-5=7191, 5-6=7191, 6-48=7191, 7-48=7191, 7-8=7191, 8-9=2, 8-25=18
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-48-to-8=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=-10, 1-48=-54, 9-24=-20
Horz: 1-23=10, 1-2=-7209, 2-3=-7209, 3-4=-7209, 4-5=-7209, 5-6=-7209, 6-48=-7209, 7-48=-7209, 7-8=-7209, 8-9=2, 8-25=18
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-54-to-8=-114

Continued on page 4

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LOAD CASE(S) Standard

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=2, 1-48=-54, 9-24=-20
Horz: 1-23=-2, 1-2=7197, 2-3=7197, 3-4=7197, 4-5=7197, 5-6=7197, 6-48=7197, 7-48=7197, 7-8=7197, 8-9=-10, 8-25=18
Drag: 9-24=-150
Trapezoidal Loads (plf)
Vert: 48=-54-to-8=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-26=2, 1-48=-60, 9-24=-20
Horz: 1-23=-2, 1-2=-7203, 2-3=-7203, 3-4=-7203, 4-5=-7203, 5-6=-7203, 6-48=-7203, 7-48=-7203, 7-8=-7203, 8-9=-10, 8-25=18
Drag: 9-24=150
Trapezoidal Loads (plf)
Vert: 48=-60-to-8=-120

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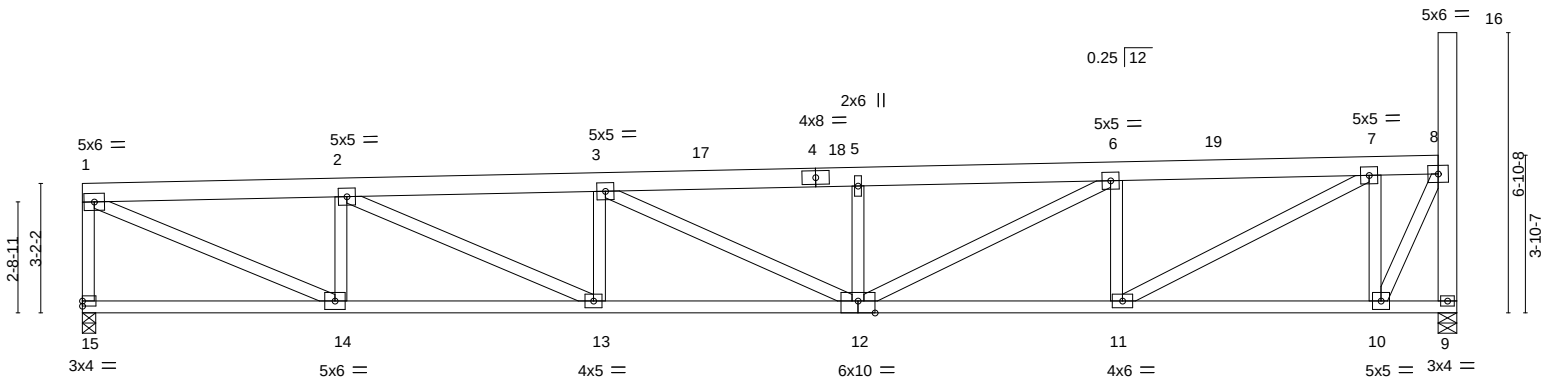
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M17	Monopitch	3	1	I51032229
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:46 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-OxzDy50bfdnMNCKyp6g2jXVDfdchReaMWORK6DzWNL?

6-4-2	12-8-4	19-0-6	25-4-8	31-8-10	33-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2	2-0-1

Scale = 1:56.5



6-4-2	12-8-4	19-0-6	25-4-8	31-8-10	33-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2	2-0-1

Plate Offsets (X,Y)-- [12:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.26	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.54	12-13	>746	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 222 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 12-15: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 9-16: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-1-10 oc bracing.

REACTIONS. (size) 15=0-3-15, 9=0-5-8
Max Horz 15=190(LC 12)
Max Grav 15=1680(LC 21), 9=1884(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-15=-1618/302, 1-2=-2996/479, 2-3=-4388/727, 3-5=-4436/773, 5-6=-4436/778, 6-7=-3267/643, 7-8=-980/340, 8-9=-1874/279
BOT CHORD	14-15=-280/186, 13-14=-648/2991, 12-13=-780/4382, 11-12=-486/3261, 10-11=-140/976
WEBS	1-14=-537/3229, 2-14=-1204/305, 2-13=-268/1532, 3-13=-518/187, 5-12=-508/170, 6-12=-265/1320, 6-11=-1119/297, 7-11=-455/2603, 7-10=-1749/349, 8-10=-309/2060

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 18-5-15, Corner(3) 18-5-15 to 33-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-19=-70, 9-15=-20
   Trapezoidal Loads (plf)
   Vert: 19=-70-to-8=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-60, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-60-to-8=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-67, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-67-to-8=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-39, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-39-to-8=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-80, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-80-to-8=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-42, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-42-to-8=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-19=-51, 9-15=-20
      Horz: 1-15=13, 1-8=-9, 8-9=3, 8-16=27
   Trapezoidal Loads (plf)
      Vert: 19=-51-to-8=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-19=-57, 9-15=-20
      Horz: 1-15=-3, 1-8=-3, 8-9=-13, 8-16=-27
   Trapezoidal Loads (plf)
      Vert: 19=-57-to-8=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-19=-51, 9-15=-20
      Horz: 1-15=10, 1-8=-9, 8-9=2, 8-16=18
   Trapezoidal Loads (plf)
      Vert: 19=-51-to-8=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-19=-57, 9-15=-20
      Horz: 1-15=-2, 1-8=-3, 8-9=-10, 8-16=18
   Trapezoidal Loads (plf)
      Vert: 19=-57-to-8=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-19=-70, 9-15=-20
   Trapezoidal Loads (plf)
      Vert: 19=-70-to-8=-150

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M18	Monopitch	2	1	I51032230
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:47 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-s7XbAR1DQwvD?Lv8NqCHFl1OE1_fA6jVl2BuefzWNL_

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

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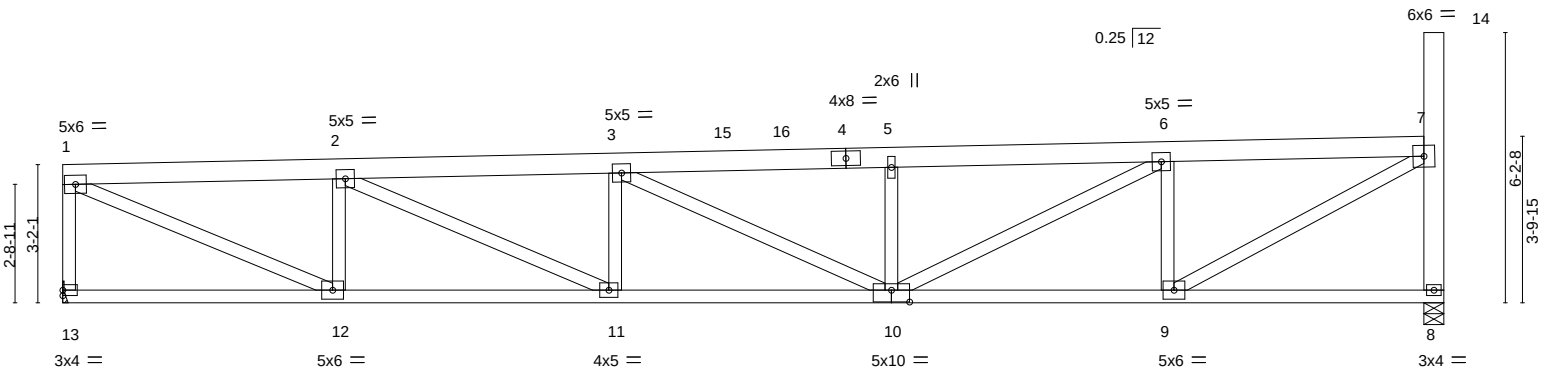

6-4-2	12-8-5	19-0-7	25-4-10	31-8-12
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [10:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.44	10-11	>846	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-13: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 8-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 13=Mechanical, 8=0-5-8
Max Horz 13=167(LC 12)
Max Grav 13=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1516/305, 1-2=-2783/477, 2-3=-3981/707, 3-5=-3846/718, 5-6=-3846/723, 6-7=-2538/541, 7-8=-1729/319
BOT CHORD	12-13=-250/164, 11-12=-633/2778, 10-11=-761/3974, 9-10=-405/2531
WEBS	1-12=-536/2997, 2-12=-1107/305, 2-11=-247/1318, 3-11=-428/178, 5-10=-493/182, 6-10=-313/1479, 6-9=-1257/316, 7-9=-479/2809

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=13, 1-7=-9, 7-8=3, 7-14=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-3, 1-7=-3, 7-8=-13, 7-14=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-13=-20
      Horz: 1-13=10, 1-7=-9, 7-8=2, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-13=-20
      Horz: 1-13=-2, 1-7=-3, 7-8=-10, 7-14=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-13=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

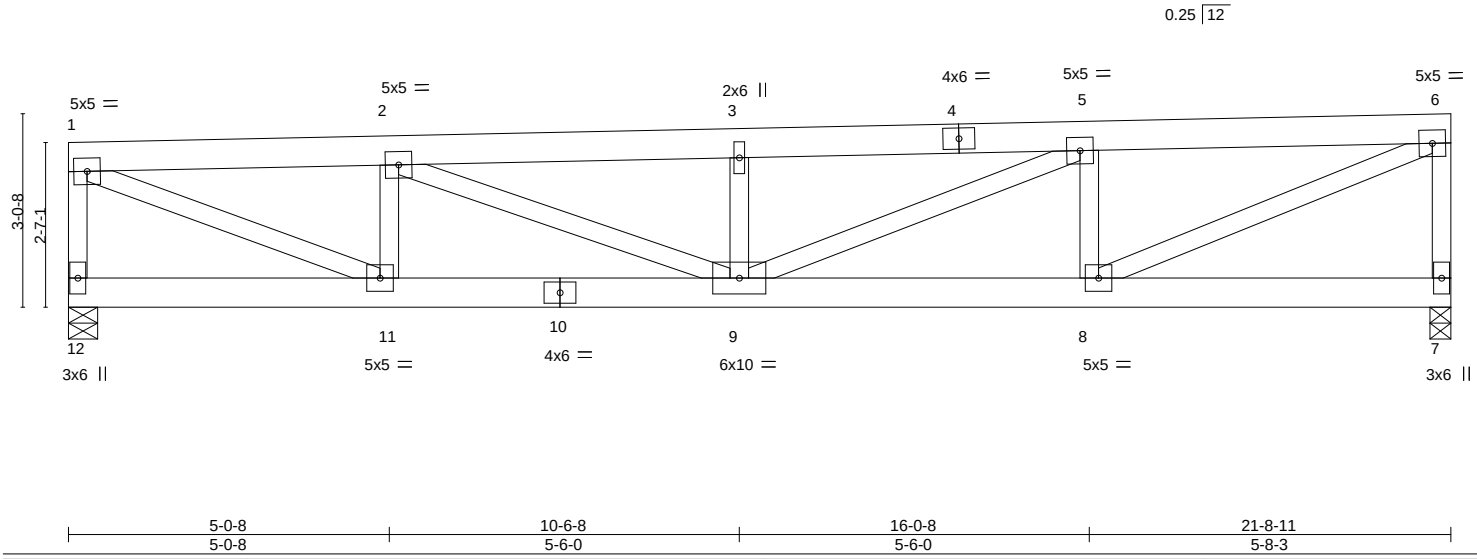
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M19	Monopitch	3	1	I51032231
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:48 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-KK5zNn1rBE14cVULxXjWoyacVRSjvdzf_iwRA6zWNKz

5-0-8 | 10-6-8 | 16-0-8 | 21-8-11
5-0-8 | 5-6-0 | 5-6-0 | 5-8-3

Scale = 1:36.2



5-0-8 | 10-6-8 | 16-0-8 | 21-8-11
5-0-8 | 5-6-0 | 5-6-0 | 5-8-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.08	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.16	9	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 148 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=55(LC 12)
Max Grav 12=1045(LC 21), 7=1045(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-985/283, 1-2=-1831/470, 2-3=-2435/617, 3-5=-2435/622, 5-6=-1819/481, 6-7=-982/291
BOT CHORD 9-11=-525/1827, 8-9=-489/1814
WEBS 1-11=-495/1938, 2-11=-682/273, 2-9=-169/652, 3-9=-413/194, 5-9=-187/675, 5-8=-722/294, 6-8=-507/1954

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

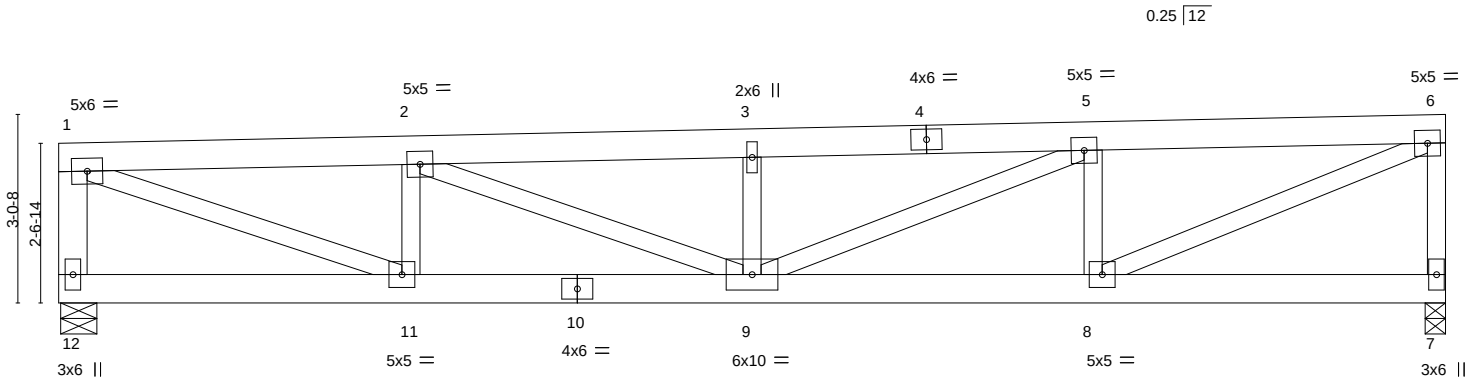
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M20	Monopitch	1	1	I51032232
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:52 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-D5KUD95MFTYV57o6ANnSyolIR2pDrRaEuKufJtzWNKv

5-8-3 | 11-2-3 | 16-8-3 | 22-4-6
5-8-3 | 5-6-0 | 5-6-0 | 5-8-3

Scale = 1:37.2



0-0-6 | 5-8-3 | 11-2-3 | 16-8-3 | 22-4-6
0-0-6 | 5-7-12 | 5-6-0 | 5-6-0 | 5-8-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.09	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.18	9	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 1-12: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-7-0, 7=0-3-15
Max Horz 12=55(LC 12)
Max Grav 12=1074(LC 21), 7=1074(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-998/286, 1-2=-2027/505, 2-3=-2565/633, 3-5=-2565/639, 5-6=-1881/484, 6-7=-1010/291
BOT CHORD	9-11=-559/2022, 8-9=-491/1876
WEBS	1-11=-510/2052, 2-11=-659/265, 2-9=-147/581, 3-9=-414/189, 5-9=-200/750, 5-8=-751/296, 6-8=-510/2022

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

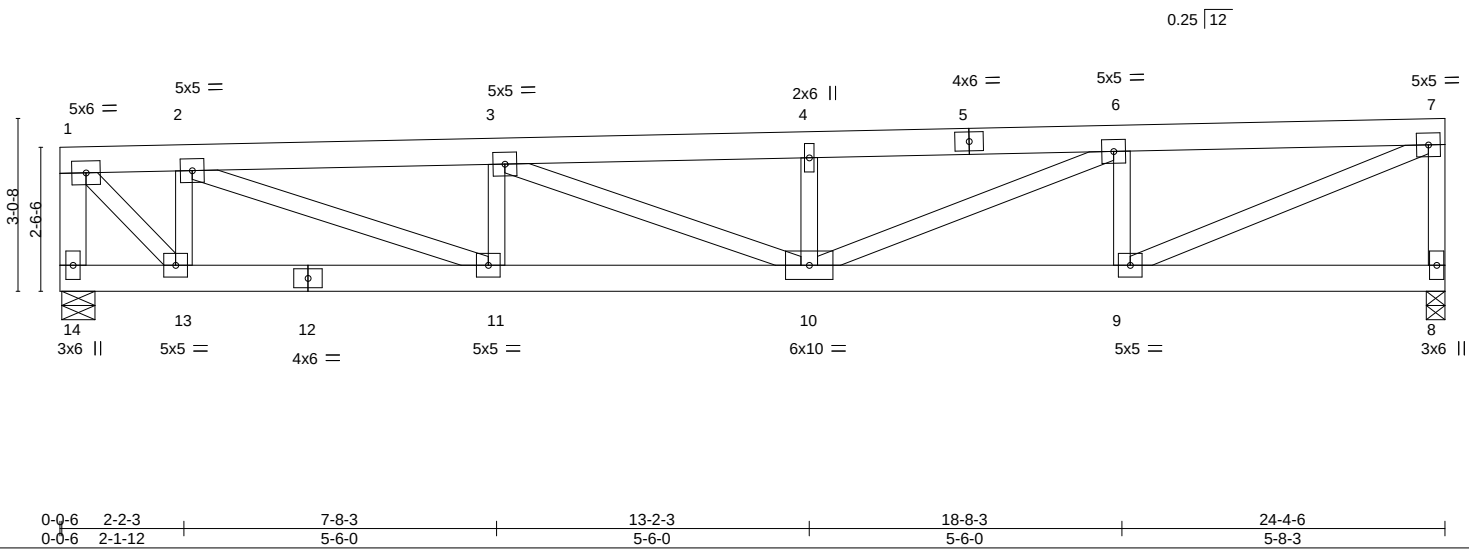
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M21	Monopitch	1	1	I51032233
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:53 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-hHusQV5_0mgMjGNIk4IhV0HS?S76at?O7zeCrJzWNKu

2-2-3	7-8-3	13-2-3	18-8-3	24-4-6
2-2-3	5-6-0	5-6-0	5-6-0	5-8-3

Scale = 1:40.5



0-0-6	2-2-3	7-8-3	13-2-3	18-8-3	24-4-6
0-0-6	2-1-12	5-6-0	5-6-0	5-6-0	5-8-3

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.11	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.23	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 168 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 1-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-6-13 oc bracing.

REACTIONS. (size) 14=0-7-0, 8=0-3-15
Max Horz 14=55(LC 14)
Max Grav 14=1177(LC 21), 8=1177(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1163/262, 1-2=-1103/266, 2-3=-2750/625, 3-4=-3034/691, 4-6=-3033/696, 6-7=-2108/499, 7-8=-1111/293
BOT CHORD	11-13=-323/1102, 10-11=-678/2745, 9-10=-504/2102
WEBS	1-13=-349/1539, 2-13=-1024/310, 2-11=-403/1761, 3-11=-545/219, 3-10=-73/306, 4-10=-418/181, 6-10=-243/1015, 6-9=-856/301, 7-9=-525/2269

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M22	Monopitch	1	1	I51032234
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:54 2022 Page 1
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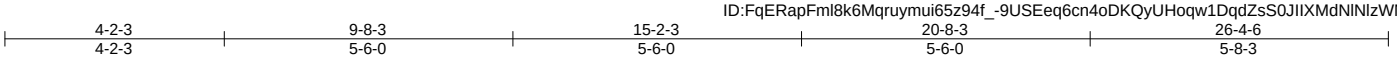

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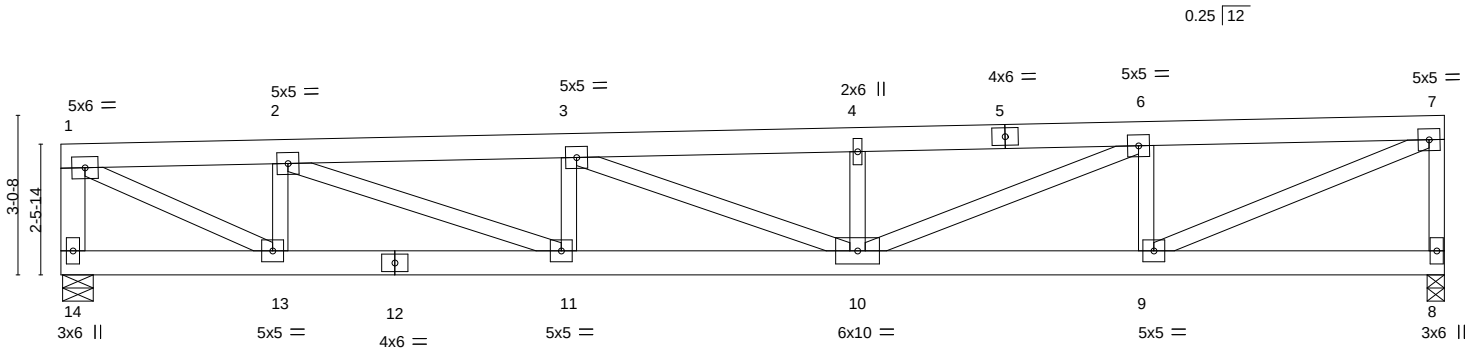

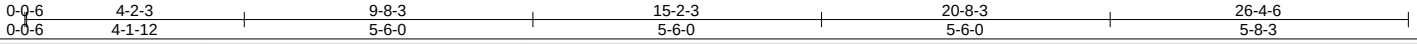

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.31	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 180 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-7 oc bracing: 10-11.

REACTIONS. (size) 14=0-7-0, 8=0-3-15
Max Horz 14=55(LC 12)
Max Grav 14=1281(LC 21), 8=1281(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1221/279, 1-2=-2082/444, 2-3=-3490/726, 3-4=-3503/735, 4-6=-3503/740, 6-7=-2336/509, 7-8=-1214/293
BOT CHORD 11-13=-500/2078, 10-11=-777/3485, 9-10=-512/2330
WEBS 1-13=-469/2243, 2-13=-948/281, 2-11=-318/1508, 3-11=-440/184, 4-10=-419/172, 6-10=-279/1279, 6-9=-961/305, 7-9=-534/2518

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

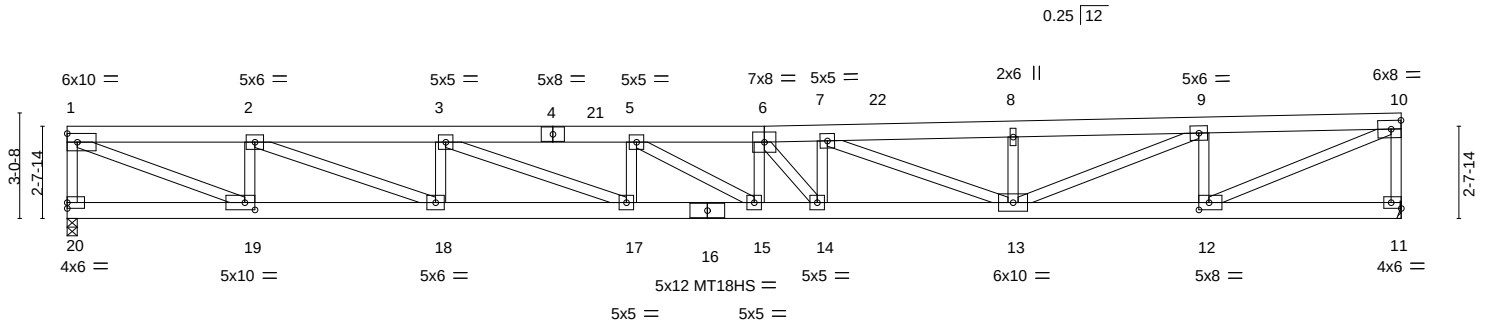
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M23	Monopitch	1	1	I51032235
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:56 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-5sa?3W8sIh2xak5tPDsO7evusf0mn6GqpxssSezWNKr

5-3-3	10-9-3	16-3-3	20-1-2	21-9-3	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	3-9-15	1-8-1	5-6-0	5-6-0	5-8-4

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	20-1-2	21-9-3	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	3-9-15	1-8-1	5-6-0	5-6-0	5-8-4

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.55	15-17	>828	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-1.18	15-17	>388	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 262 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=Mechanical
Max Horz 20=55(LC 14)
Max Grav 20=1830(LC 21), 11=1757(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1755/259, 1-2=-3711/498, 2-3=-6331/833, 3-5=-7590/996, 5-6=-7680/1015, 6-7=-7427/990, 7-8=-5939/805, 8-9=-5940/809, 9-10=-3436/486, 10-11=-1685/263
BOT CHORD	18-19=-543/3711, 17-18=-878/6331, 15-17=-1040/7590, 14-15=-1052/7680, 13-14=-1020/7425, 12-13=-483/3431
WEBS	1-19=-518/3954, 2-19=-1472/279, 2-18=-374/2822, 3-18=-936/205, 3-17=-188/1356, 5-17=-418/132, 5-15=-142/424, 6-14=-559/54, 7-14=0/496, 7-13=-1608/214, 8-13=-439/136, 9-13=-371/2743, 9-12=-1472/292, 10-12=-507/3721

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-11, Corner(3) 23-3-11 to 38-3-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

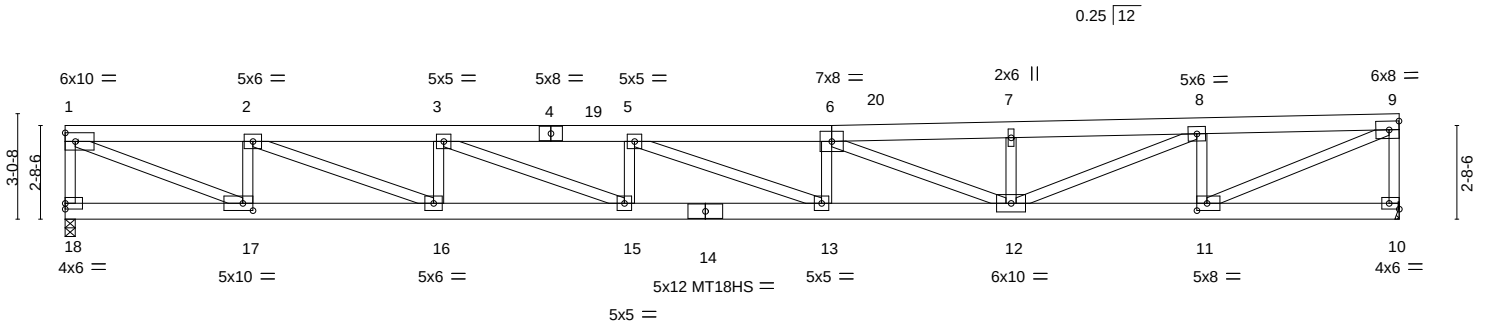
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M24	Monopitch	1	1	I51032236
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:57 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-a28NGs8U3?AoBug3zwNdfsS2P3LgWZf_2bcP_4zWNKq

5-3-3	10-9-3	16-3-3	22-1-2	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	5-9-15	5-2-1	5-6-0	5-8-4

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	22-1-2	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	5-9-15	5-2-1	5-6-0	5-8-4

Plate Offsets (X,Y)-- [9:0-3-7,0-3-0], [10:Edge,0-2-0], [11:0-3-8,0-2-8], [17:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.55	13-15	>835	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-1.16	13-15	>393	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.14	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 259 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 10=Mechanical
Max Horz 18=55(LC 12)
Max Grav 18=1836(LC 21), 10=1765(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1763/259, 1-2=-3662/490, 2-3=-6240/818, 3-5=-7542/985, 5-6=-7467/978, 6-7=-5957/803, 7-8=-5958/807, 8-9=-3459/487, 9-10=-1694/263
BOT CHORD	16-17=-534/3662, 15-16=-861/6240, 13-15=-1029/7542, 12-13=-1012/7458, 11-12=-484/3454
WEBS	1-17=-511/3917, 2-17=-1481/280, 2-16=-367/2784, 3-16=-943/203, 3-15=-195/1405, 5-15=-422/143, 5-13=-359/353, 6-12=-1693/209, 7-12=-421/130, 8-12=-368/2738, 8-11=-1478/292, 9-11=-508/3746

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-11, Corner(3) 23-3-11 to 38-3-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

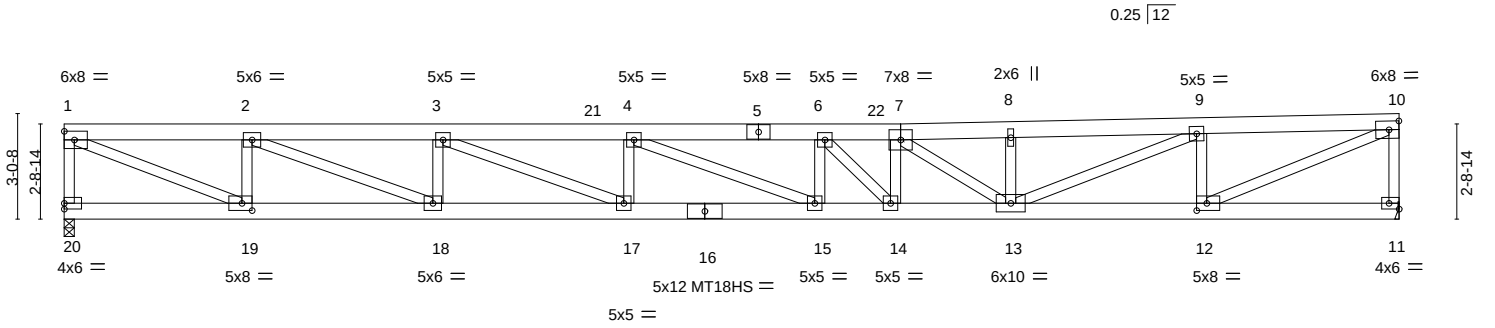
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M25	Monopitch	1	1	I51032237
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:58 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-2FhlUC96qJIfp2FGWeusC3_EgThIF137HFLzWXzWNKp

5-3-3	10-9-3	16-3-3	21-9-3	24-1-2	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	5-6-0	2-3-15	3-2-1	5-6-0	5-8-4

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	21-9-3	24-1-2	27-3-3	32-9-3	38-5-7
5-3-3	5-6-0	5-6-0	5-6-0	2-3-15	3-2-1	5-6-0	5-8-4

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.54	15-17	>855	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.13	15-17	>406	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 263 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=Mechanical
Max Horz 20=55(LC 14)
Max Grav 20=1843(LC 21), 11=1775(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1770/259, 1-2=-3611/483, 2-3=-6160/805, 3-4=-7441/966, 4-6=-7428/974, 6-7=-7016/926, 7-8=-5952/795, 8-9=-5953/799, 9-10=-3489/488, 10-11=-1704/263
BOT CHORD	18-19=-524/3611, 17-18=-847/6160, 15-17=-1007/7441, 14-15=-1005/7428, 13-14=-948/6987, 12-13=-485/3484
WEBS	1-19=-504/3876, 2-19=-1488/280, 2-18=-363/2760, 3-18=-949/203, 3-17=-188/1387, 4-17=-429/142, 4-15=-207/266, 6-14=-721/79, 7-14=-39/552, 7-13=-1332/167, 8-13=-330/107, 9-13=-359/2701, 9-12=-1483/293, 10-12=-509/3780

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-11, Corner(3) 23-3-11 to 38-3-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	M26	MONO TRUSS	2	1	I51032238
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:40:59 2022 Page 1
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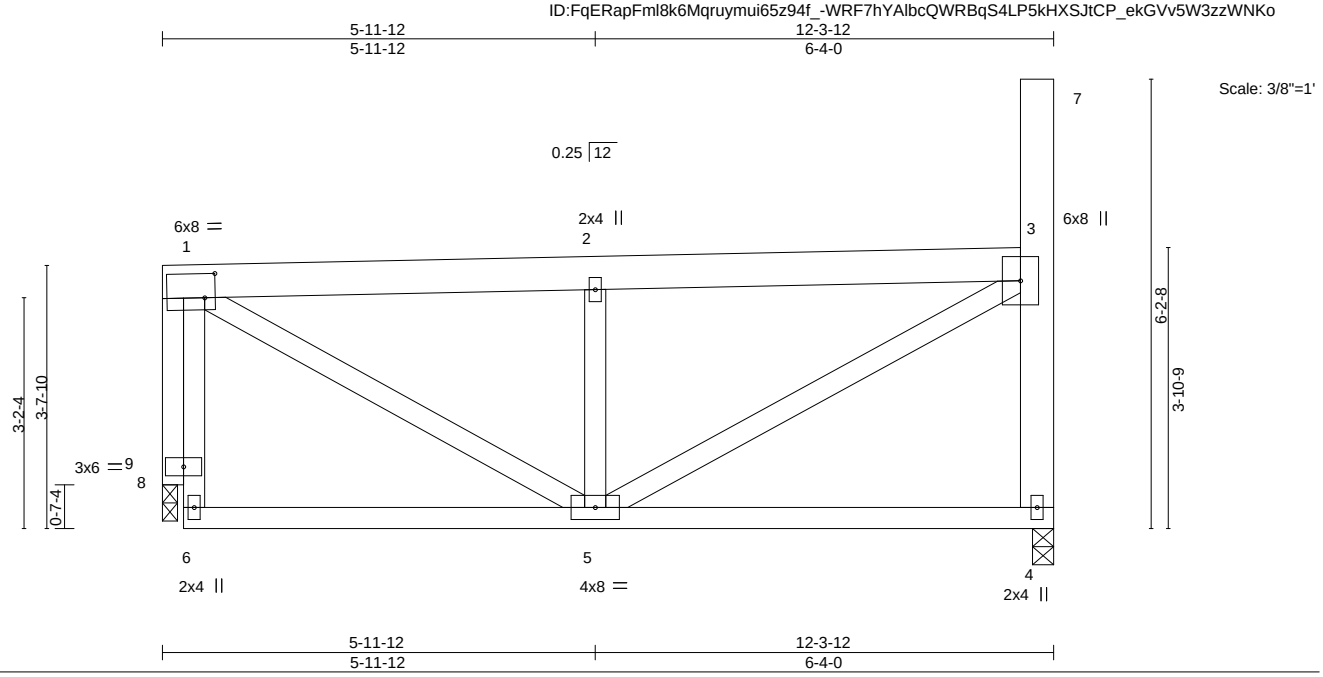

Plate Offsets (X,Y)-- [1:0-1-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 91 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-7: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 9=0-2-8
Max Horz 9=154(LC 14)
Max Uplift 9=-14(LC 11)
Max Grav 4=784(LC 22), 9=592(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-698/335, 2-3=-701/343, 3-4=-736/329
WEBS 1-5=-294/712, 2-5=-572/312, 3-5=-348/708, 1-9=-598/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 4-6=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 2=-70-to-3=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-60-to-3=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-65-to-3=-125

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-39-to-3=-99

21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-30, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-30-to-3=-110

22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-77, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-77-to-3=-157

23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-42-to-3=-122

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-51, 4-6=-20
Horz: 6-8=13, 1-3=-9, 3-4=3, 3-7=27
Trapezoidal Loads (plf)
Vert: 2=-51-to-3=-111

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-57, 4-6=-20
Horz: 6-8=-3, 1-3=-3, 3-4=-13, 3-7=-27
Trapezoidal Loads (plf)
Vert: 2=-57-to-3=-117

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-51, 4-6=-20
Horz: 6-8=10, 1-3=-9, 3-4=2, 3-7=18
Trapezoidal Loads (plf)
Vert: 2=-51-to-3=-111

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-57, 4-6=-20
Horz: 6-8=-2, 1-3=-3, 3-4=-10, 3-7=18
Trapezoidal Loads (plf)
Vert: 2=-57-to-3=-117

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 2=-70-to-3=-150

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T1	Roof Special	4	1	I51032239
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:16 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-WinZFMNPbrZ5zpdjaQD4wskIUjuvTDQnQ3jw9UzWNKX

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	36-0-1	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-6-2	1-11-0

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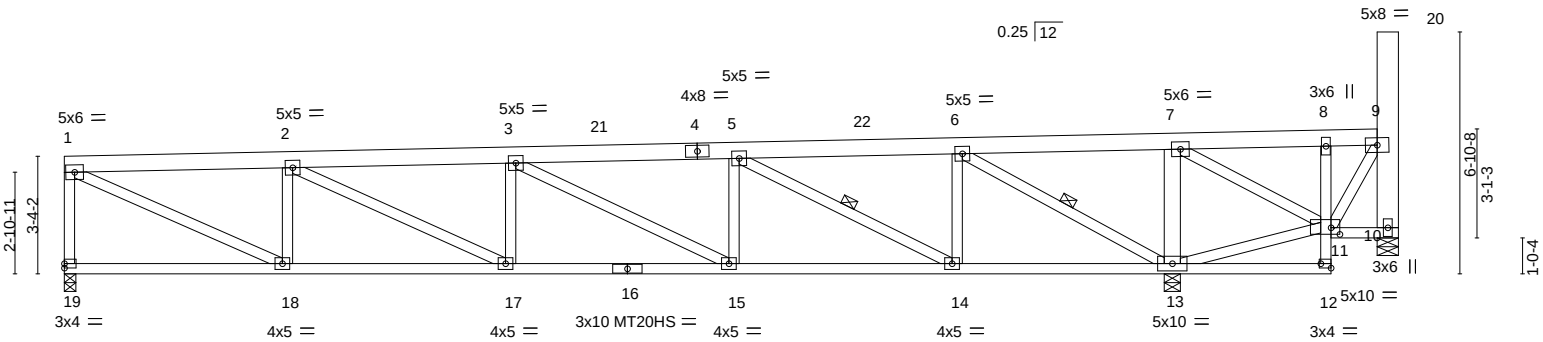

6-4-2	12-8-4	19-0-7	25-4-9	31-5-15	36-0-1	37-11-1
6-4-2	6-4-2	6-4-3	6-4-2	6-1-6	4-6-2	1-11-0

Plate Offsets (X,Y)-- [11:0-3-0,0-2-4], [12:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.15	15-17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.32	15-17	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.07	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-20: 2x8 SP 2400F 2.0E, 7-13: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-14, 6-13

REACTIONS. (size) 19=0-3-15, 10=0-7-4, 13=0-5-8
Max Horz 19=178(LC 12)
Max Uplift 10=-978(LC 2)
Max Grav 19=1303(LC 21), 13=3644(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1244/209, 1-2=-2087/277, 2-3=-2693/383, 3-5=-2072/333, 5-6=-329/141, 6-7=-450/2252, 7-8=-313/671, 8-9=-313/672, 9-10=-160/949
BOT CHORD	17-18=-457/2081, 15-17=-484/2687, 14-15=-361/2066, 13-14=-101/320, 8-11=-362/90
WEBS	1-18=-323/2265, 2-18=-850/223, 2-17=-112/674, 3-15=-696/138, 5-15=0/445, 5-14=-1977/294, 6-14=-60/1042, 6-13=-2955/415, 7-13=-1534/292, 11-13=-2209/311, 7-11=-275/1838, 9-11=-1191/178

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-7-7, Corner(3) 22-7-7 to 37-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=978.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-70, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-9=-146

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-60-to-9=-117

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-68, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-68-to-9=-125

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-39-to-9=-96

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-81, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-81-to-9=-157

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-42-to-9=-118

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 12-19=-20, 10-11=-20
Horz: 1-19=13, 1-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 7=-51-to-9=-108

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 12-19=-20, 10-11=-20
Horz: 1-19=-3, 1-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 7=-57-to-9=-114

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-51, 12-19=-20, 10-11=-20
Horz: 1-19=10, 1-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 7=-51-to-9=-108

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-57, 12-19=-20, 10-11=-20
Horz: 1-19=-2, 1-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 7=-57-to-9=-114

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 12-19=-20, 10-11=-20
Trapezoidal Loads (plf)
Vert: 7=-70-to-9=-146

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T2	Roof Special Supported Gable	1	1	I51032240
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:43 2022 Page 1
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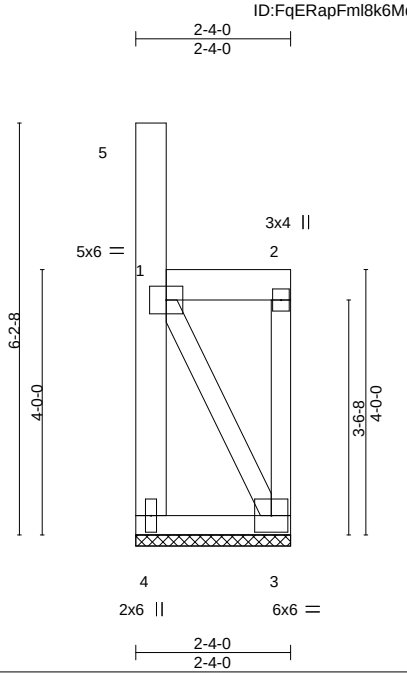

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-164(LC 11)
Max Uplift 4=-282(LC 11), 3=-282(LC 12)
Max Grav 4=343(LC 25), 3=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-464/850
BOT CHORD 3-4=-297/431
WEBS 1-3=-767/553

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=282, 3=282.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T3	Roof Special	1	1	I51032241
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:59 2022 Page 1
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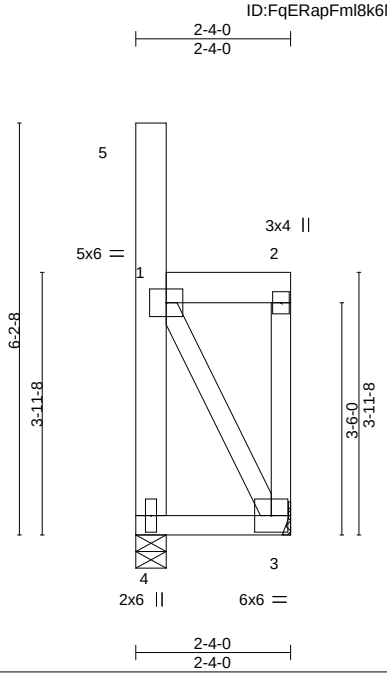

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-283(LC 11), 3=-283(LC 12)
Max Grav 4=344(LC 25), 3=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/831
BOT CHORD 3-4=-265/410
WEBS 1-3=-744/483

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=283, 3=283.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T4	Roof Special	1	1	I51032242
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:15 2022 Page 1
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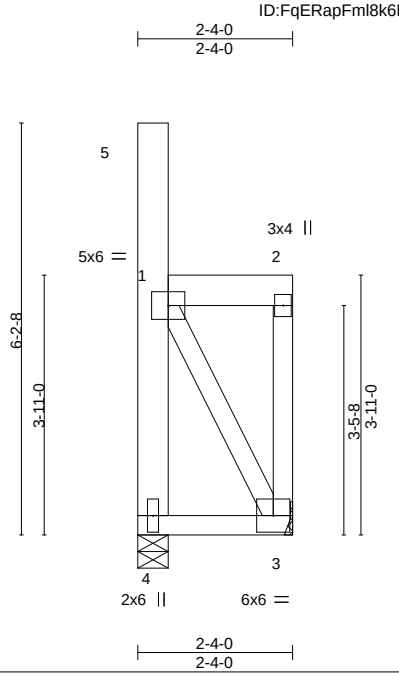

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-284(LC 11), 3=-284(LC 12)
Max Grav 4=345(LC 25), 3=345(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/835
BOT CHORD 3-4=-267/414
WEBS 1-3=-747/482

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=284, 3=284.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T5	Roof Special	1	1	I51032243
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:33 2022 Page 1
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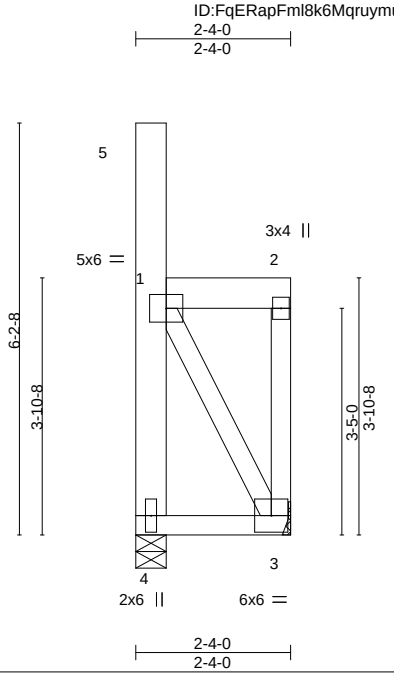

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-166(LC 11)
Max Uplift 4=-286(LC 11), 3=-286(LC 12)
Max Grav 4=346(LC 25), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/839
BOT CHORD 3-4=-268/418
WEBS 1-3=-750/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=286, 3=286.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T6	Roof Special	1	1	I51032244
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:53 2022 Page 1
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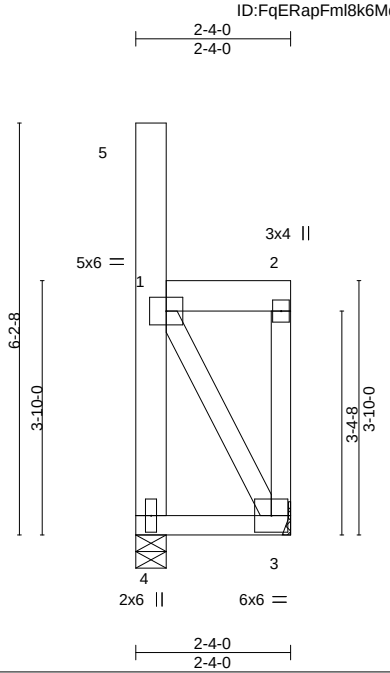

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-167(LC 11)
Max Uplift 4=-287(LC 11), 3=-287(LC 12)
Max Grav 4=346(LC 25), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/842
BOT CHORD 3-4=-269/422
WEBS 1-3=-752/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 4 and 287 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T7	Roof Special	24	1	I51032245
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:02 2022 Page 1
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5-6-0	11-0-0	16-6-0	22-0-0	27-8-3
5-6-0	5-6-0	5-6-0	5-6-0	5-8-3

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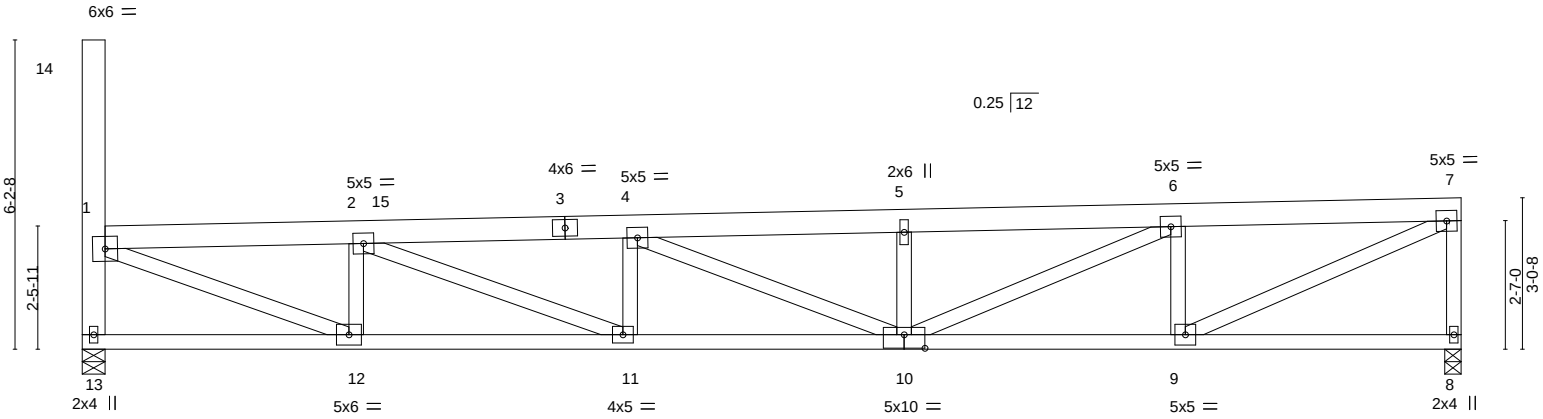

5-6-0	11-0-0	16-6-0	22-0-0	27-8-3
5-6-0	5-6-0	5-6-0	5-6-0	5-8-3

Plate Offsets (X,Y)-- [10:0-5-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.21	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.42	10-11	>779	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 175 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-13: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 13-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-5-0 oc bracing.

REACTIONS. (size) 13=0-5-8, 8=0-3-15
Max Horz 13=198(LC 12)
Max Grav 13=1564(LC 21), 8=1366(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1504/329, 1-2=-2851/762, 2-4=-3965/916, 4-5=-3792/824, 5-6=-3792/829, 6-7=-2452/515, 7-8=-1309/319
BOT CHORD	12-13=-371/441, 11-12=-819/2843, 10-11=-967/3960, 9-10=-551/2447
WEBS	1-12=-610/2904, 2-12=-972/293, 2-11=-372/1203, 4-11=-338/205, 5-10=-436/171, 6-10=-352/1476, 6-9=-1046/330, 7-9=-588/2669

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-15=-70, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-15=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-15=-60, 8-13=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-15=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-67, 8-13=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-15=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-39, 8-13=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-15=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-79, 8-13=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-15=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-42, 8-13=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-15=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=13, 1-14=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-3, 1-14=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=10, 1-14=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-2, 1-14=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-15=-70

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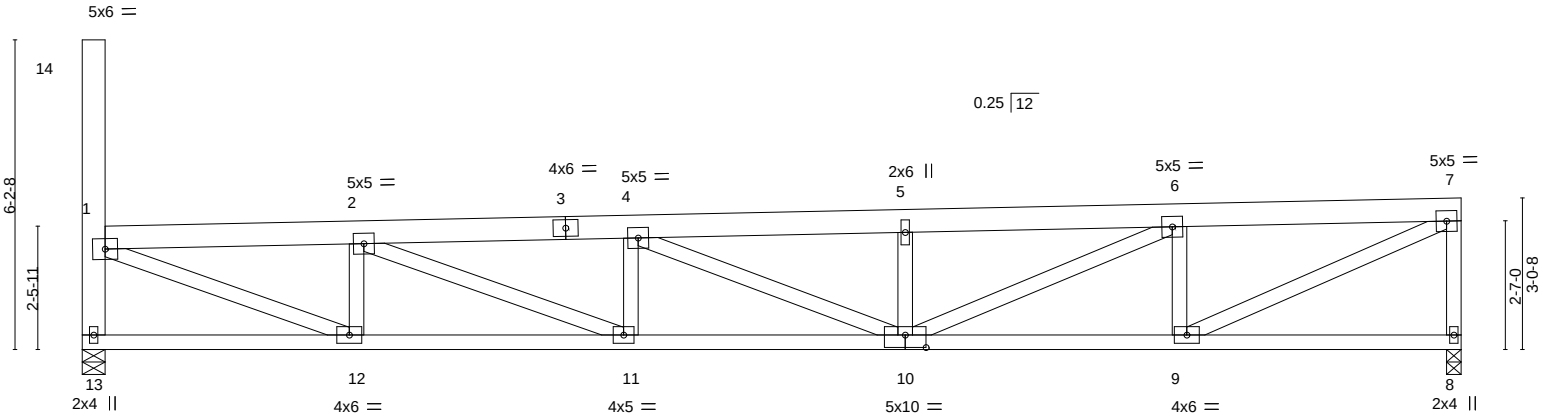
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T7A	Monopitch	1	1	I51032246
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:03 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-tIl?jxgXOj2wJFJHLOeAmQgdXsMD2dNW0C74PnzWNIs

5-6-0 | 11-0-0 | 16-6-0 | 22-0-0 | 27-7-12
5-6-0 | 5-6-0 | 5-6-0 | 5-6-0 | 5-7-12

Scale = 1:46.2



5-6-0 | 11-0-0 | 16-6-0 | 22-0-0 | 27-7-12
5-6-0 | 5-6-0 | 5-6-0 | 5-6-0 | 5-7-12

Plate Offsets (X,Y)-- [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.20	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.42	10-11	>772	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 175 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
13-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 13=0-5-8, 8=0-3-8
Max Horz 13=198(LC 14)
Max Grav 13=1348(LC 21), 8=1348(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1290/329, 1-2=-2661/762, 2-4=-3843/914, 4-5=-3707/823, 5-6=-3707/828, 6-7=-2401/512, 7-8=-1292/319
BOT CHORD 12-13=-370/440, 11-12=-818/2656, 10-11=-966/3838, 9-10=-549/2396
WEBS 1-12=-609/2741, 2-12=-908/293, 2-11=-371/1273, 4-11=-365/205, 5-10=-435/172, 6-10=-354/1439, 6-9=-1030/330, 7-9=-586/2616

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T7AGE	GABLE	1	1	I51032247
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:06 2022 Page 1
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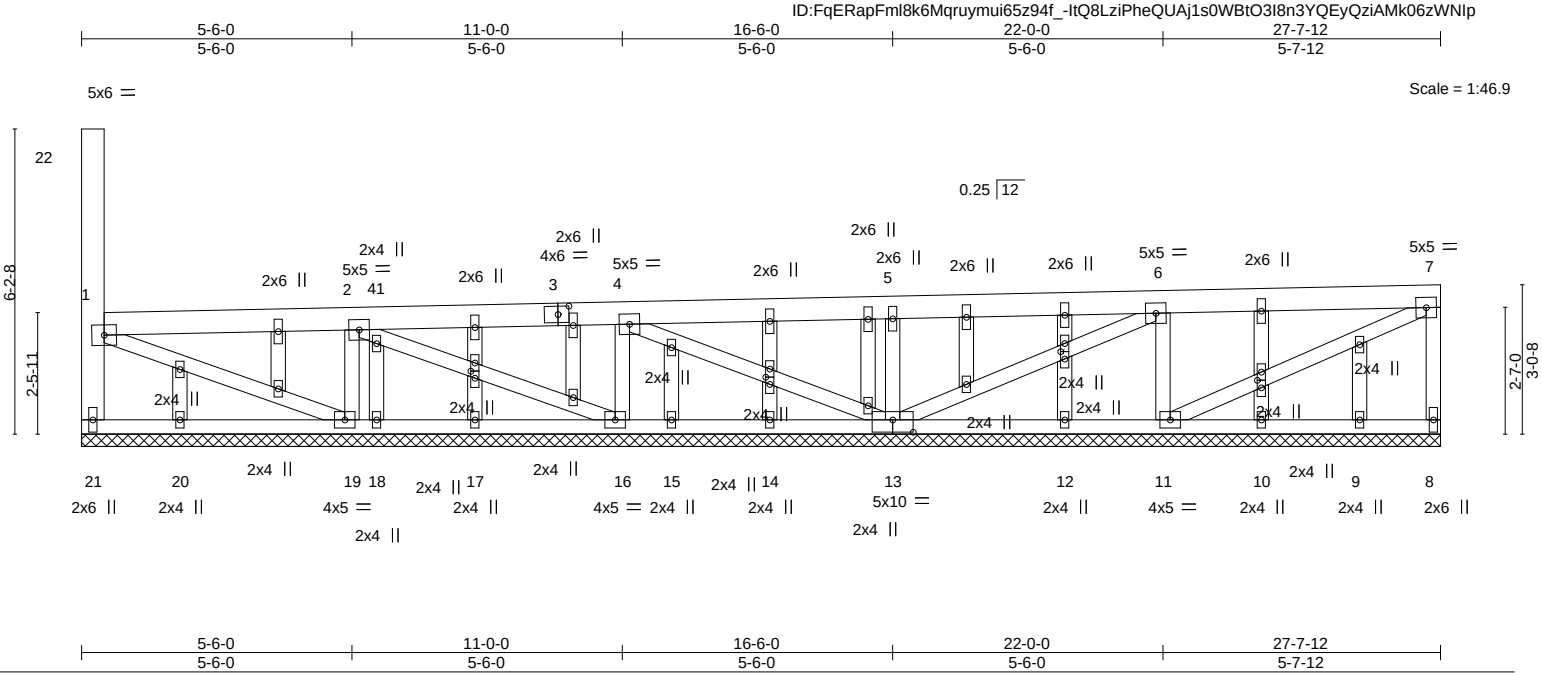

Plate Offsets (X,Y)-- [3:0-2-11,0-2-0], [13:0-5-0,0-3-0], [26:0-1-12,0-1-0], [32:0-1-12,0-1-0], [37:0-1-13,0-1-0], [39:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	-0.02	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 21-22: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-0-9 oc bracing.

REACTIONS. All bearings 27-7-12.
(lb) - Max Horz 21=198(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 19, 16, 13, 18 except 21=-618(LC 44), 8=-546(LC 53), 11=-124(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 20, 17, 15, 14, 12, 10, 9 except 21=699(LC 71), 8=614(LC 64), 19=628(LC 21), 16=463(LC 21), 13=531(LC 21), 11=497(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-674/605, 1-2=-1290/1306, 2-4=-1264/1290, 4-5=-1179/1206, 5-6=-1062/1098, 6-7=-1148/1147, 7-8=-604/593
BOT CHORD	20-21=-653/595, 19-20=-1389/1295, 18-19=-304/258, 17-18=-488/442, 16-17=-1088/1042, 14-15=-524/509, 13-14=-1024/1009, 12-13=-1096/1091, 11-12=-396/391, 10-11=-1110/1116, 9-10=-710/716, 8-9=-310/316
WEBS	1-19=-1456/1507, 2-19=-772/606, 2-16=-1232/1253, 4-16=-679/606, 4-13=-1135/1144, 5-13=-427/172, 6-13=-1154/1137, 6-11=-719/635, 7-11=-1251/1245

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 16, 13, 18 except (jt=lb) 21=618, 8=546, 11=124.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-7-12 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-70, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-41=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-60, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-41=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-67, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-41=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-39, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-41=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-79, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-41=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-42, 8-21=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-41=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-51, 8-21=-20
   Horz: 1-21=13, 1-22=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-41=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-21=-20
   Horz: 1-21=-3, 1-22=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-51, 8-21=-20
   Horz: 1-21=10, 1-22=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-41=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-21=-20
   Horz: 1-21=-2, 1-22=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-21=-20
   Horz: 1-3=7200, 3-4=7200, 4-7=7200
   Drag: 8-21=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-63, 8-21=-20
   Horz: 1-3=-7200, 3-4=-7200, 4-7=-7200
   Drag: 8-21=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-41=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-41=-63, 8-21=-20
Horz: 1-3=7200, 3-4=7200, 4-7=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-123-to-41=-63

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-70, 8-21=-20
Horz: 1-3=-7200, 3-4=-7200, 4-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-130-to-41=-70

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-36, 8-21=-20
Horz: 1-3=7200, 3-4=7200, 4-7=7200
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-41=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-42, 8-21=-20
Horz: 1-3=-7200, 3-4=-7200, 4-7=-7200
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-41=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-48, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-41=7191, 3-41=7191, 3-4=7191, 4-7=7191, 7-8=3
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-41=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-21=-20
Horz: 1-21=13, 1-22=27, 1-3=-7209, 3-4=-7209, 4-7=-7209, 7-8=3
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-3=7197, 3-4=7197, 4-7=7197, 7-8=-13
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-60, 8-21=-20
Horz: 1-21=-3, 1-22=-27, 1-3=-7203, 3-4=-7203, 4-7=-7203, 7-8=-13
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-41=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-48, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-41=7191, 3-41=7191, 3-4=7191, 4-7=7191, 7-8=2
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-41=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-21=-20
Horz: 1-21=10, 1-22=-18, 1-3=-7209, 3-4=-7209, 4-7=-7209, 7-8=2
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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MiTek
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-41=-54, 8-21=-20
Horz: 1-21=-2, 1-22=-18, 1-3=7197, 3-4=7197, 4-7=7197, 7-8=-10
Drag: 8-21=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-60, 8-21=-20
Horz: 1-21=-2, 1-22=-18, 1-3=-7203, 3-4=-7203, 4-7=-7203, 7-8=-10
Drag: 8-21=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-41=-60

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T7GE	GABLE	1	1	I51032248
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:09 2022 Page 1
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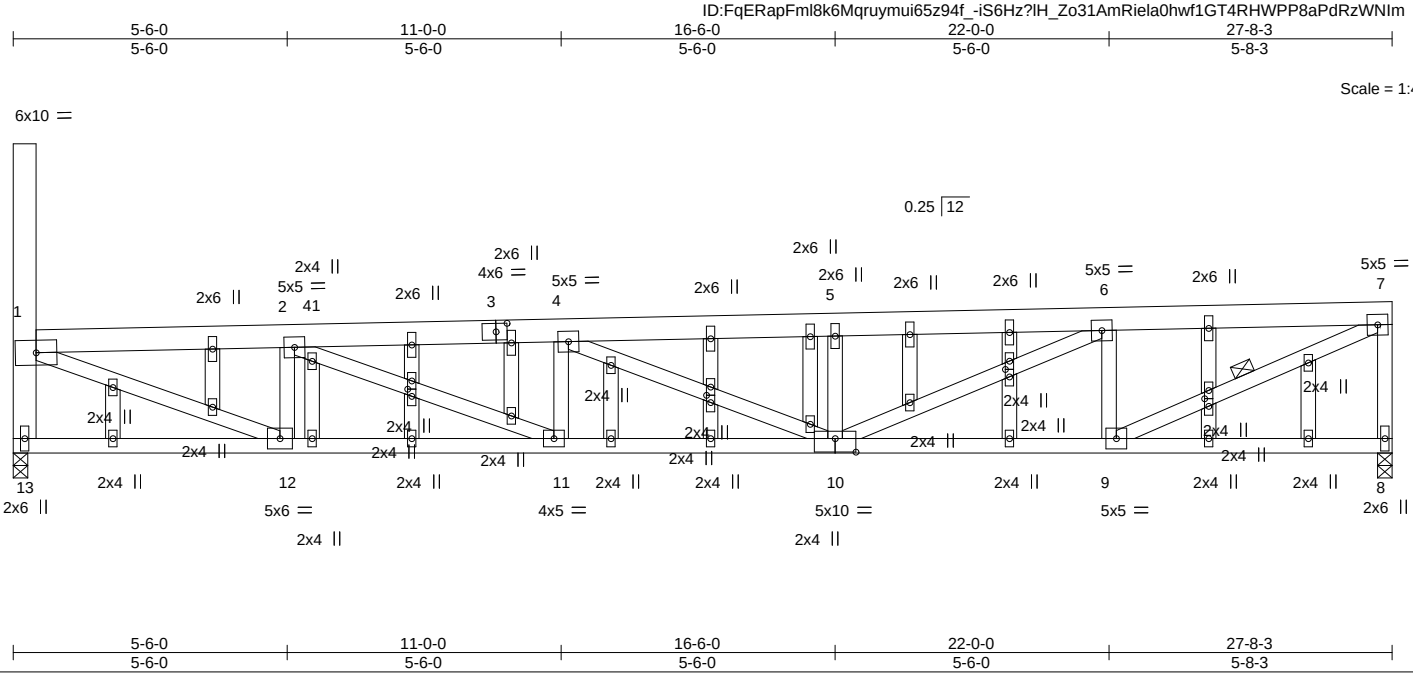

Plate Offsets (X,Y)-- [3:0-2-11,0-2-0], [10:0-5-0,0-3-4], [20:0-1-12,0-1-0], [29:0-1-12,0-1-0], [35:0-1-13,0-1-0], [38:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.21	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.42	10-11	>779	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 204 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-13: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 13-14: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-3-13 oc bracing.
WEBS	1 Row at midpt 7-9

REACTIONS. (size) 13=0-3-8, 8=0-3-8
Max Horz 13=198(LC 46)
Max Uplift 13=-500(LC 44), 8=-377(LC 53)
Max Grav 13=1743(LC 37), 8=1509(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-1682/789, 1-2=-3426/2037, 2-4=-4525/2338, 4-5=-4368/2232, 5-6=-3903/1628, 6-7=-2822/1429, 7-8=-1453/738
BOT CHORD	12-13=-1406/1341, 11-12=-1714/3134, 10-11=-1756/4044, 9-10=-1848/3112, 8-9=-1121/1147
WEBS	1-12=-1812/3523, 2-12=-1201/746, 2-11=-1455/2125, 4-11=-682/606, 4-10=-1298/1287, 5-10=-436/171, 6-10=-1445/2107, 6-9=-1227/767, 7-9=-1594/3086

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=500, 8=377.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-8-3 for 200.0 plf.

March 28,2022

LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-70, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-41=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-60, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-41=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-67, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-41=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-39, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-41=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-79, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-41=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-41=-42, 8-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-41=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-51, 8-13=-20
   Horz: 1-13=13, 1-14=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-41=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-13=-20
   Horz: 1-13=-3, 1-14=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-51, 8-13=-20
   Horz: 1-13=10, 1-14=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-41=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-13=-20
   Horz: 1-13=-2, 1-14=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-57, 8-13=-20
   Horz: 1-2=7200, 2-41=7200, 3-41=7200, 3-4=7200, 4-7=7200
   Drag: 8-13=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-41=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-63, 8-13=-20
   Horz: 1-2=-7200, 2-41=-7200, 3-41=-7200, 3-4=-7200, 4-7=-7200
   Drag: 8-13=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-41=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-41=-63, 8-13=-20
   Horz: 1-2=7200, 2-41=7200, 3-41=7200, 3-4=7200, 4-7=7200
   Drag: 8-13=-150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-41=-63

Continued on page 3

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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-70, 8-13=-20
Horz: 1-2=-7200, 2-41=-7200, 3-41=-7200, 3-4=-7200, 4-7=-7200
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-130-to-41=-70

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-36, 8-13=-20
Horz: 1-2=7200, 2-41=7200, 3-41=7200, 3-4=7200, 4-7=7200
Drag: 8-13=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-41=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-42, 8-13=-20
Horz: 1-2=-7200, 2-41=-7200, 3-41=-7200, 3-4=-7200, 4-7=-7200
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-41=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-48, 8-13=-20
Horz: 1-13=13, 1-14=27, 1-2=7191, 2-41=7191, 3-41=7191, 3-4=7191, 4-7=7191, 7-8=3
Drag: 8-13=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-41=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-13=-20
Horz: 1-13=13, 1-14=27, 1-2=-7209, 2-41=-7209, 3-41=-7209, 3-4=-7209, 4-7=-7209, 7-8=3
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-13=-20
Horz: 1-13=-3, 1-14=-27, 1-2=7197, 2-41=7197, 3-41=7197, 3-4=7197, 4-7=7197, 7-8=-13
Drag: 8-13=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-60, 8-13=-20
Horz: 1-13=-3, 1-14=-27, 1-2=-7203, 2-41=-7203, 3-41=-7203, 3-4=-7203, 4-7=-7203, 7-8=-13
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-41=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-48, 8-13=-20
Horz: 1-13=10, 1-14=-18, 1-2=7191, 2-41=7191, 3-41=7191, 3-4=7191, 4-7=7191, 7-8=2
Drag: 8-13=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-41=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-13=-20
Horz: 1-13=10, 1-14=-18, 1-2=-7209, 2-41=-7209, 3-41=-7209, 3-4=-7209, 4-7=-7209, 7-8=2
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-54, 8-13=-20
Horz: 1-13=-2, 1-14=-18, 1-2=7197, 2-41=7197, 3-41=7197, 3-4=7197, 4-7=7197, 7-8=-10
Drag: 8-13=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-41=-54

Continued on page 4

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-41=-60, 8-13=-20
Horz: 1-13=-2, 1-14=-18, 1-2=-7203, 2-41=-7203, 3-41=-7203, 3-4=-7203, 4-7=-7203, 7-8=-10
Drag: 8-13=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-41=-60

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T7GR	Roof Special Girder	1	1	I51032249
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:11 2022 Page 1
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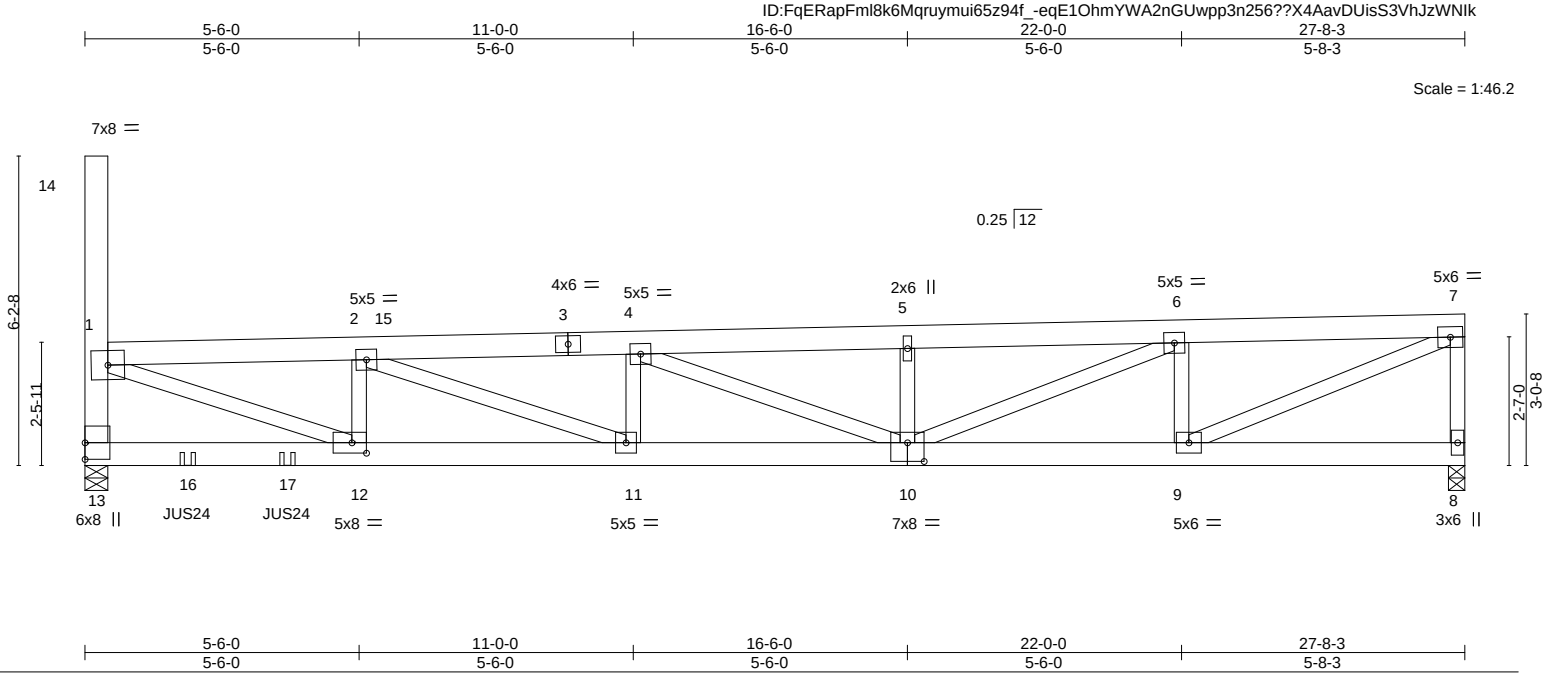

Plate Offsets (X,Y)-- [10:0-4-0,0-4-8], [12:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.21	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.41	10-11	>808	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 196 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
13-14: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-2 oc bracing.

REACTIONS. (size) 13=0-5-8, 8=0-3-15
Max Horz 13=196(LC 12)
Max Uplift 13=-561(LC 11), 8=-27(LC 15)
Max Grav 13=1821(LC 21), 8=1395(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1599/613, 1-2=-3266/1557, 2-4=-4306/1429, 4-5=-4031/1167, 5-6=-4031/1172, 6-7=-2589/680, 7-8=-1327/381
BOT CHORD 12-13=-516/578, 11-12=-1612/3258, 10-11=-1479/4300, 9-10=-715/2583
WEBS 1-12=-1328/3226, 2-12=-909/451, 2-11=-708/1307, 4-11=-319/261, 4-10=-380/289, 5-10=-422/174, 6-10=-544/1580, 6-9=-1079/403, 7-9=-757/2794

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 13=561.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-15=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-143(F) 17=-143(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-15=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-115(F) 17=-115(F)
Trapezoidal Loads (plf)
Vert: 1=-120-to-15=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-67, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-115(F) 17=-115(F)
Trapezoidal Loads (plf)
Vert: 1=-127-to-15=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-39, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-115(F) 17=-115(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-15=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-79, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-143(F) 17=-143(F)
Trapezoidal Loads (plf)
Vert: 1=-159-to-15=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-42, 8-13=-20
Concentrated Loads (lb)
Vert: 16=-143(F) 17=-143(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-15=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=13, 1-14=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 16=189(F) 17=189(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-3, 1-14=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 16=189(F) 17=189(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=10, 1-14=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 16=189(F) 17=189(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-2, 1-14=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 16=189(F) 17=189(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-15=-70, 8-13=-20

Continued on page 3

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 16=-143(F) 17=-143(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-15=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=13, 1-14=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 16=-327(F) 17=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-3, 1-14=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 16=-327(F) 17=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-51, 8-13=-20
Horz: 1-13=10, 1-14=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 16=-327(F) 17=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-15=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-15=-57, 8-13=-20
Horz: 1-13=-2, 1-14=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 16=-327(F) 17=-327(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-15=-57

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Chesterfield, MO 63017

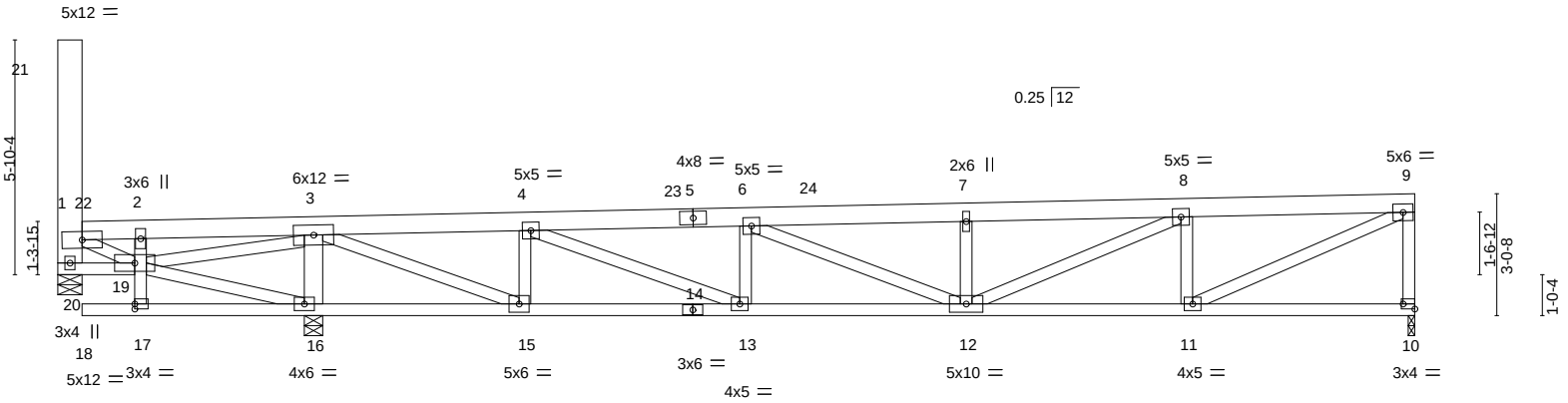
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T8	Roof Special	6	1	I51032250
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:12 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-71oPc0nAHUBeueV0NnIHdKY98UTReg_r56p3DlzWNIj

0-7-4 6-4-8 11-7-12 17-1-12 22-7-12 28-1-12 33-9-15
0-7-4 5-9-4 5-3-4 5-6-0 5-6-0 5-6-0 5-8-3

Scale = 1:57.3



0-7-4 1-11-0 6-4-8 11-7-12 17-1-12 22-7-12 28-1-12 33-9-15
0-7-4 1-3-12 4-5-8 5-3-4 5-6-0 5-6-0 5-6-0 5-8-3

Plate Offsets (X,Y)-- [10:Edge,0-1-8], [17:0-0-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.33	12-13	>979	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 224 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
20-21: 2x8 SP 2400F 2.0E, 3-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-11 oc bracing. Except: 10-0-0 oc bracing: 17-19

REACTIONS. (size) 20=0-7-4, 10=0-1-15, 16=0-5-8
Max Horz 20=222(LC 14)
Max Uplift 20=-393(LC 2)
Max Grav 20=56(LC 12), 10=1193(LC 21), 16=2710(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-165/375, 1-2=-728/957, 2-3=-649/930, 3-4=-968/168, 4-6=-2688/419, 6-7=-2983/469, 7-8=-2983/473, 8-9=-2076/343, 9-10=-1138/208
BOT CHORD 19-20=-596/829, 2-19=-316/96, 15-16=-1976/327, 13-15=-167/962, 12-13=-420/2683, 11-12=-330/2071
WEBS 16-19=-1917/280, 3-19=-537/1307, 3-16=-2124/471, 3-15=-488/3161, 6-13=-578/168, 6-12=-49/320, 7-12=-434/146, 8-12=-149/1000, 8-11=-866/224, 9-11=-347/2254, 1-19=-822/312, 4-15=-1077/248, 4-13=-273/1854

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-3, Corner(3) 18-8-3 to 33-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=393.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-22=-70, 3-9=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-150-to-3=-73

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-60, 3-9=-60, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-120-to-3=-62

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-67, 3-9=-67, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-127-to-3=-70

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-39, 3-9=-39, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-99-to-3=-41

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-80, 3-9=-80, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-160-to-3=-83

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-42, 3-9=-42, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-122-to-3=-45

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-51, 3-9=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=13, 1-21=27, 1-9=-9, 9-10=3
Trapezoidal Loads (plf)
Vert: 22=-111-to-3=-54

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-57, 3-9=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-3, 1-21=-27, 1-9=-3, 9-10=-13
Trapezoidal Loads (plf)
Vert: 22=-117-to-3=-59

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-51, 3-9=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=10, 1-21=-18, 1-9=-9, 9-10=2
Trapezoidal Loads (plf)
Vert: 22=-111-to-3=-54

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-22=-57, 3-9=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-2, 1-21=-18, 1-9=-3, 9-10=-10
Trapezoidal Loads (plf)
Vert: 22=-117-to-3=-59

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 3-9=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 22=-150-to-3=-73

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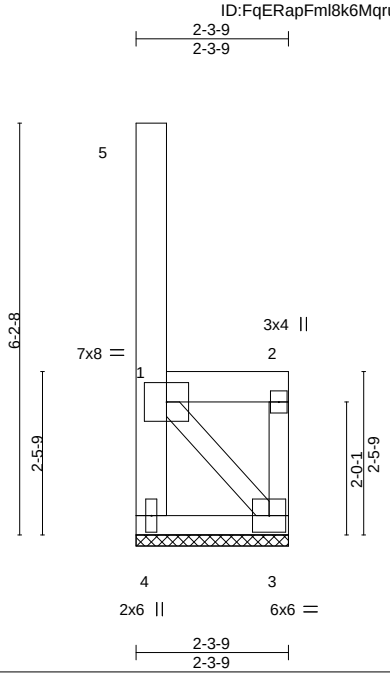
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T10	Roof Special Supported Gable	1	1	I51032251
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:17 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-_vLxTiO1M8hybyCv87kJT4HSA7NSCpdweiSThwzWNKW



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.

REACTIONS. (size) 4=2-3-9, 3=2-3-9
Max Horz 4=186(LC 14)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=369(LC 25), 3=369(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-479/965
BOT CHORD 3-4=-404/643
WEBS 1-3=-894/567

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=320, 3=320.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T11	Roof Special	1	1	I51032252
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:18 2022 Page 1
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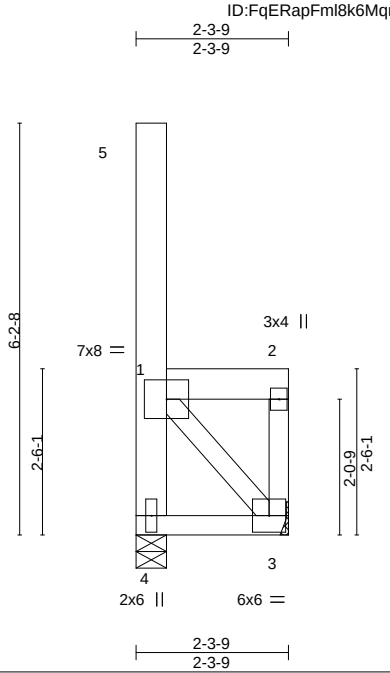

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-320(LC 11), 3=-320(LC 12)
Max Grav 4=369(LC 25), 3=369(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-411/955
BOT CHORD 3-4=-352/619
WEBS 1-3=-877/495

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=320, 3=320.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T12	Roof Special	1	1	I51032253
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:18 2022 Page 1
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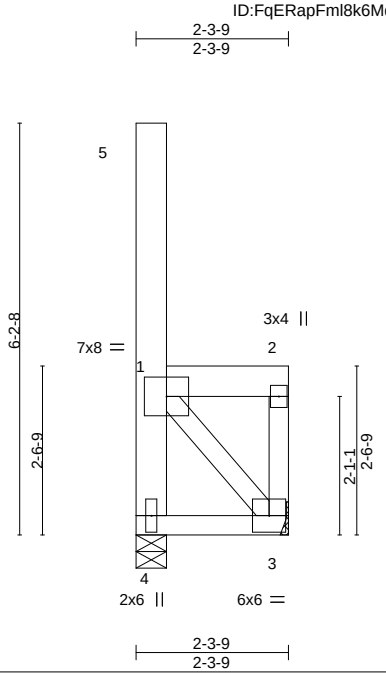

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-319(LC 11), 3=-319(LC 12)
Max Grav 4=368(LC 25), 3=368(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-411/953
BOT CHORD 3-4=-347/609
WEBS 1-3=-871/493

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=319, 3=319.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T13	GABLE	1	1	I51032254
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:21 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-tgaSJ3RYQNCO4aWgNzpFdwR9ekmo8VGWZKQhqhzWNKS

8-6-8 | 15-0-13 | 22-6-5
8-6-8 | 6-6-5 | 7-5-8

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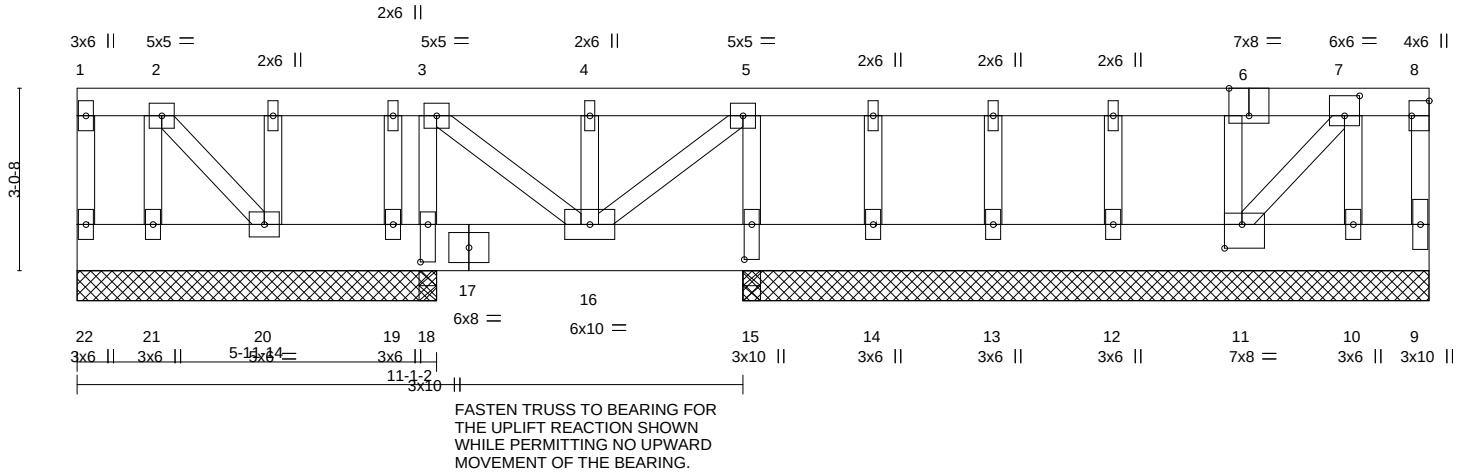

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

5-8-6 | 8-6-8 | 11-1-2 | 15-0-13 | 22-6-5
5-8-6 | 2-10-2 | 2-6-10 | 3-11-11 | 7-5-8

Plate Offsets (X,Y)-- [6:0-4-0,Edge], [7:0-3-0,0-4-0], [8:Edge,0-3-8], [11:0-3-8,0-4-12], [15:0-7-0,0-1-8], [18:0-7-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.00	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 193 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-5-3 except (jt=length) 22=5-11-14, 19=5-11-14, 20=5-11-14, 21=5-11-14, 18=5-11-14, 18=5-11-14.
(lb) - Max Horz 22=-144(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 21 except 22=-317(LC 43), 9=-494(LC 32), 19=-1319(LC 64), 20=-289(LC 42), 14=-349(LC 64), 18=-1799(LC 39), 15=-1756(LC 42), 11=-314(LC 41), 10=-106(LC 61)
Max Grav All reactions 250 lb or less at joint(s) 19, 21, 14, 13, 12, 10 except 22=327(LC 42), 9=391(LC 39), 20=527(LC 31), 18=3971(LC 64), 18=2498(LC 1), 15=3328(LC 63), 15=2155(LC 1), 11=866(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-22=-252/255, 2-3=-919/933, 3-4=-1179/971, 4-5=-639/485, 5-7=-2206/2230, 8-9=-401/443
BOT CHORD	21-22=-375/377, 20-21=-855/856, 19-20=-1224/1192, 18-19=-1374/1342, 16-18=-1374/1342, 15-16=-2844/2825, 14-15=-2844/2825, 13-14=-2321/2302, 12-13=-1804/1733, 11-12=-1245/1268, 10-11=-698/701
WEBS	3-16=-2495/2774, 5-16=-2862/3130, 3-18=-2108/1911, 5-15=-2519/2298, 2-20=-545/532, 7-11=-1012/787

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 22=317, 9=494, 19=1319, 20=289, 14=349, 18=1799, 15=1756, 11=314, 10=106.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 5-11-14, 11-1-2 to 22-6-5 for 258.6 plf.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
					I51032254
PRYOR-R2B	T13	GABLE	1	1	Job Reference (optional)

NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 18-22=-20, 15-18=-420(F=-400), 9-15=-20

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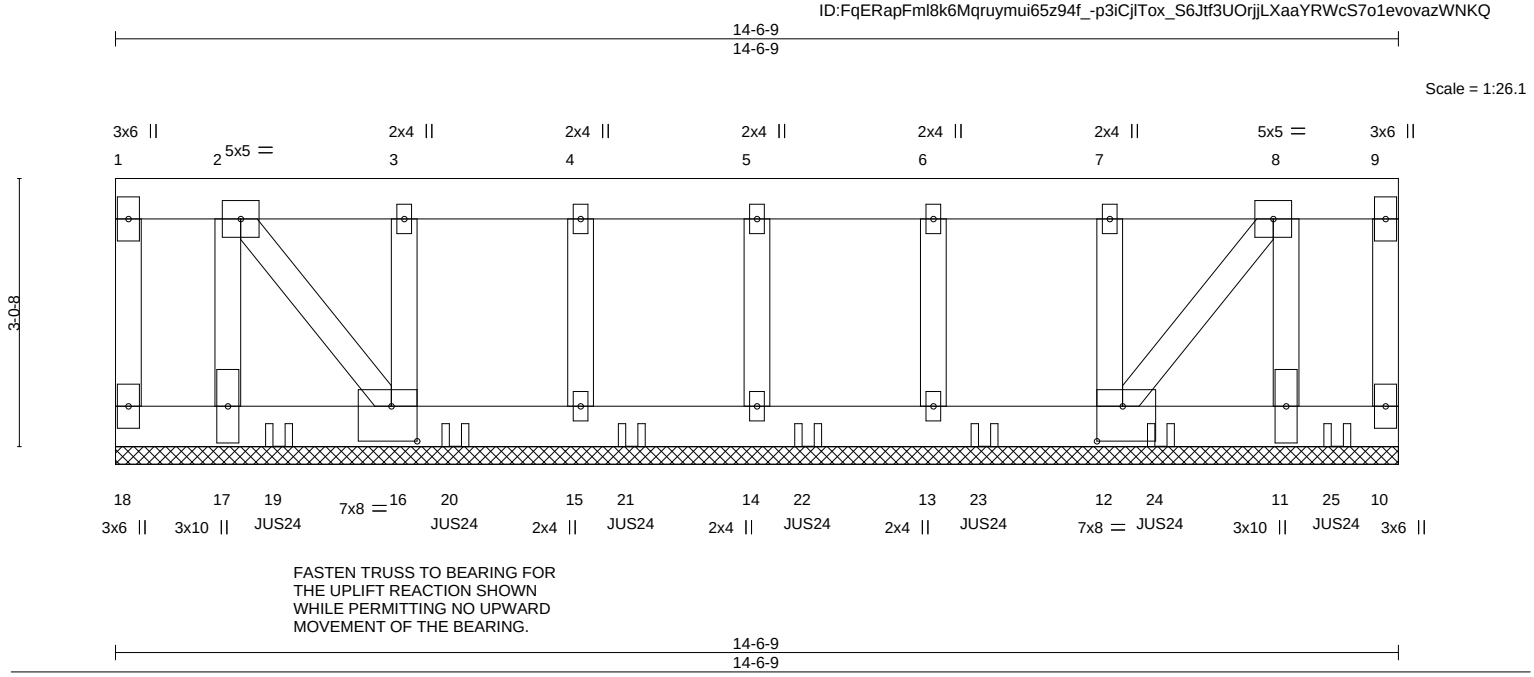
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T13A	GABLE	1	1	I51032255
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:23 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-p3iCjlTox_S6Jtf3UOrjjLXaaYRWcS7o1evovazWNKQ



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

14-6-9
14-6-9

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [16:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 104 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-6-9.
(lb) - Max Horz 18=-55(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 13 except 18=-157(LC 59), 10=-160(LC 42), 16=-1692(LC 42), 17=-1573(LC 39), 12=-1684(LC 39), 11=-1565(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 10 except 14=448(LC 1), 15=443(LC 1), 16=1911(LC 59), 17=1733(LC 60), 13=445(LC 1), 12=1909(LC 60), 11=1749(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-256/263, 2-3=-1213/1218, 3-4=-813/818, 4-5=-413/418, 5-6=-413/418, 6-7=-813/818, 7-8=-1213/1218, 8-9=-247/253
BOT CHORD	17-18=-303/311, 16-17=-703/711, 15-16=-838/837, 14-15=-438/437, 13-14=-438/437, 12-13=-838/837, 11-12=-647/653, 10-11=-247/253
WEBS	3-16=-255/264, 2-17=-1597/1584, 7-12=-259/271, 8-11=-1630/1637, 2-16=-2407/2410, 8-12=-2355/2349

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 13 except (jt=lb) 18=157, 10=160, 16=1692, 17=1573, 12=1684, 11=1565.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-6-9 for 200.0 plf.

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Continued on page 2

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 13-10-4 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-267(B) 20=-267(B) 21=-267(B) 22=-267(B) 23=-267(B) 24=-267(B) 25=-271(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T14	GABLE	1	1	I51032256
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:26 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-DeOLMnVgEvqhALOe9WOQKz95tlT6pnIFjc8SWvzWNKN

9-8-0 12-11-4 19-4-0
9-8-0 3-3-4 6-4-12

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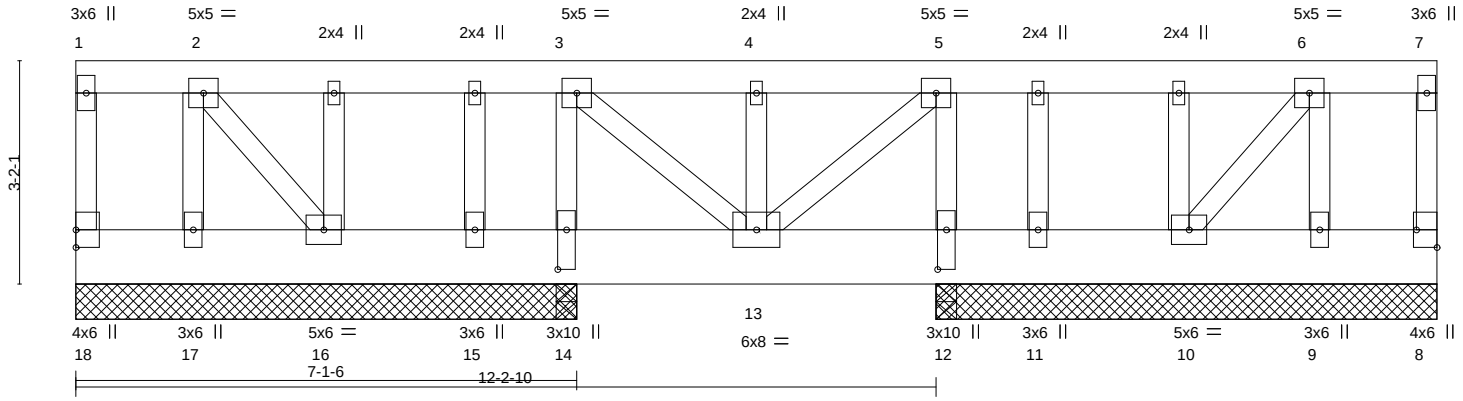

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-9-14 9-8-0 12-6-2 12-11-4 19-4-0
6-9-14 2-10-2 2-10-2 0-5-2 6-4-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-12,0-1-8], [14:0-6-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 170 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6.
(lb) - Max Horz 18=-155(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8 except 15=-559(LC 63), 16=-143(LC 42), 11=-559(LC 63), 10=-141(LC 39), 14=-1721(LC 39), 12=-1721(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=478(LC 31), 10=477(LC 32), 14=3305(LC 64), 14=2046(LC 1), 12=3324(LC 63), 12=2046(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-362/365, 2-3=-1352/1356, 3-4=-732/515, 4-5=-731/514, 5-6=-1400/1401, 6-7=-355/355
BOT CHORD	17-18=-582/557, 16-17=-1066/1089, 15-16=-1607/1551, 14-15=-1961/1928, 13-14=-1961/1928, 12-13=-1848/1853, 11-12=-1848/1853, 10-11=-1494/1499, 9-10=-939/938, 8-9=-432/429
WEBS	3-13=-2572/2822, 5-13=-2638/2888, 3-14=-2210/2024, 5-12=-2257/2070, 2-16=-425/366, 6-10=-424/359

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8 except (jt=lb) 15=559, 16=143, 11=559, 10=141, 14=1721, 12=1721.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-1-6, 12-2-10 to 19-4-0 for 271.7 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T14	GABLE	1	1	I51032256 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-420(F=-400), 8-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T14A	GABLE	1	1	I51032257
					Job Reference (optional)

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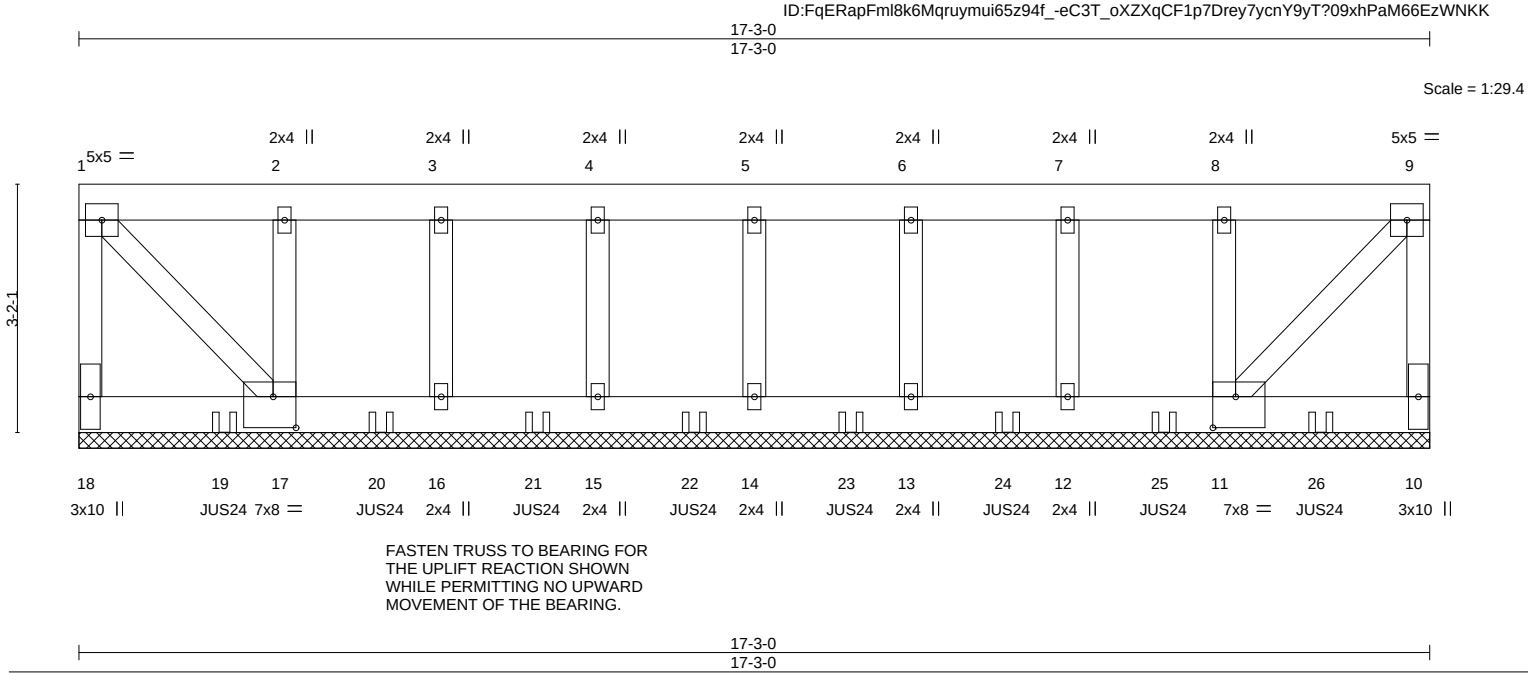

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 120 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-3-0.
(lb) - Max Horz 18=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1846(LC 39), 10=-1824(LC 42), 17=-1751(LC 42), 11=-1736(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1907(LC 60), 10=1929(LC 59), 14=442(LC 1), 15=456(LC 1), 16=410(LC 1), 17=2114(LC 59), 13=458(LC 1), 12=403(LC 1), 11=2124(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1876/1867, 1-2=-1683/1658, 2-3=-1210/1206, 3-4=-809/812, 4-5=-410/412, 5-6=-410/412, 6-7=-809/812, 7-8=-1210/1206, 8-9=-1680/1658, 9-10=-1892/1894
BOT CHORD	17-18=-570/573, 16-17=-1236/1235, 15-16=-836/835, 14-15=-436/435, 13-14=-436/435, 12-13=-836/835, 11-12=-1236/1235, 10-11=-519/519
WEBS	1-17=-2578/2579, 9-11=-2533/2531

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1846 lb uplift at joint 18, 1824 lb uplift at joint 10, 1751 lb uplift at joint 17 and 1736 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-3-0 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-5 from the left end to 15-10-5 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-267(F) 20=-267(F) 21=-267(F) 22=-267(F) 23=-267(F) 24=-267(F) 25=-267(F) 26=-267(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T17	GABLE	1	1	I51032258
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:32 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-2nlccqaRqlaquGroWnVqaEP6MAWVDUf75YbmjYzWNKH

9-9-2 | 12-5-8 | 19-6-4
9-9-2 | 2-8-6 | 7-0-12

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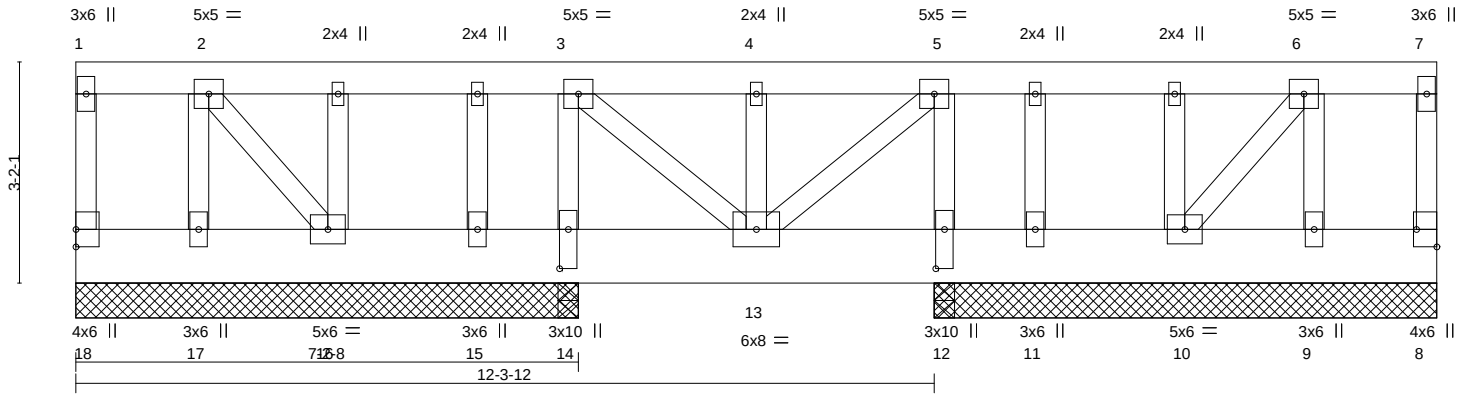

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-0 | 9-9-2 | 12-3-12 | 12-5-8 | 19-6-4
6-11-0 | 2-10-2 | 2-6-10 | 0-1-12 | 7-0-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-12,0-1-8], [14:0-6-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 171 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8.
(lb) - Max Horz 18=-154(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8 except 12=-1743(LC 42), 14=-1743(LC 39), 15=-559(LC 63), 16=-133(LC 42), 11=-559(LC 63), 10=-132(LC 39)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 12=3341(LC 63), 12=2046(LC 1), 14=3322(LC 64), 14=2046(LC 1), 16=470(LC 31), 10=470(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-381/384, 2-3=-1377/1381, 3-4=-732/514, 4-5=-731/514, 5-6=-1425/1427, 6-7=-374/373
BOT CHORD	17-18=-605/580, 16-17=-1088/1111, 15-16=-1633/1577, 14-15=-1986/1953, 13-14=-1986/1953, 12-13=-1874/1878, 11-12=-1874/1878, 10-11=-1521/1526, 9-10=-961/961, 8-9=-456/453
WEBS	3-13=-2606/2857, 5-13=-2672/2923, 5-12=-2278/2091, 3-14=-2232/2044, 2-16=-416/353, 6-10=-415/347

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8 except (jt=lb) 12=1743, 14=1743, 15=559, 16=133, 11=559, 10=132.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-2-8, 12-3-12 to 19-6-4 for 270.8 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T17	GABLE	1	1	I51032258 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-420(F=-400), 8-12=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T17A	GABLE	1	1	I51032259
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:35 2022 Page 1
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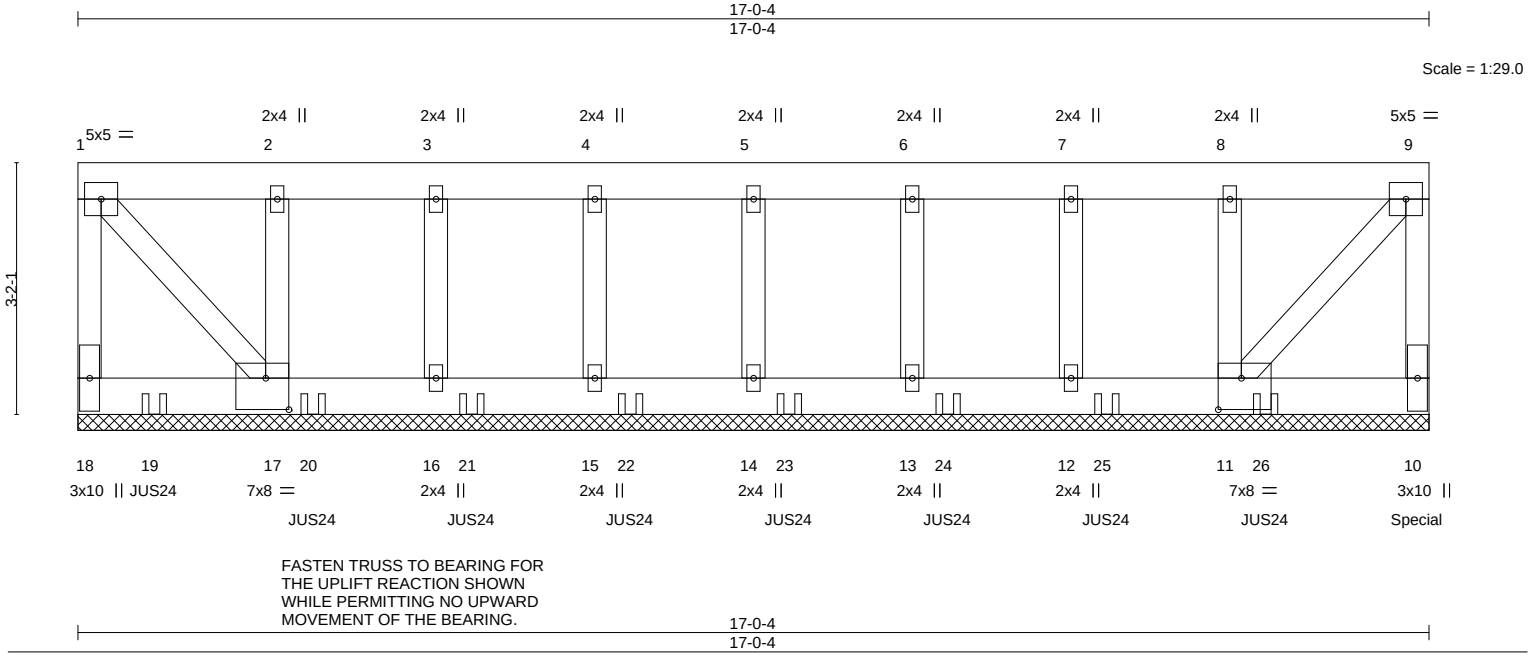

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 119 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-0-4.
(lb) - Max Horz 18=-58(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1886(LC 39), 10=-1836(LC 42), 17=-1807(LC 42), 11=-1806(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2012(LC 60), 10=2093(LC 59), 14=443(LC 1), 15=456(LC 1), 16=409(LC 1), 17=2175(LC 59), 13=452(LC 1), 12=423(LC 1), 11=2154(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1937/1929, 1-2=-1636/1639, 2-3=-1210/1206, 3-4=-808/814, 4-5=-410/414, 5-6=-410/414, 6-7=-808/814, 7-8=-1210/1206, 8-9=-1636/1639, 9-10=-1954/1956
BOT CHORD 17-18=-552/559, 16-17=-1236/1241, 15-16=-836/841, 14-15=-436/441, 13-14=-436/441, 12-13=-836/841, 11-12=-1236/1241, 10-11=-496/500
WEBS 1-17=-2615/2617, 9-11=-2566/2567

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1886 lb uplift at joint 18, 1836 lb uplift at joint 10, 1807 lb uplift at joint 17 and 1806 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-0-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-9 from the left end to 14-11-9 to connect truss(es) to front face of bottom chord.

Continued on page 2

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 277 lb down at 16-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 10=-277(F) 19=-268(F) 20=-267(F) 21=-267(F) 22=-267(F) 23=-267(F) 24=-267(F) 25=-267(F) 26=-267(F)

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T18	Roof Special	2	1	I51032260
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:36 2022 Page 1
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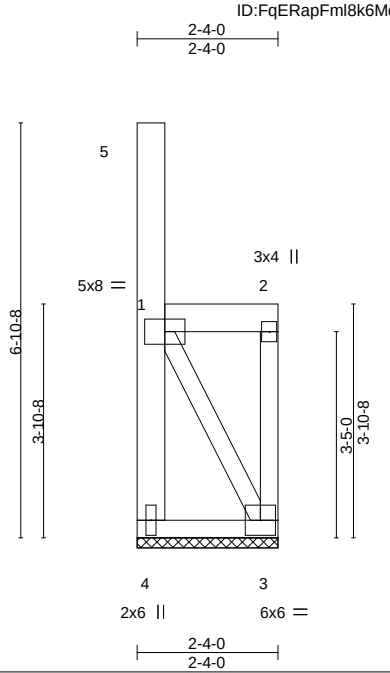

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-190(LC 11)
Max Uplift 4=-364(LC 11), 3=-364(LC 12)
Max Grav 4=405(LC 14), 3=405(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-508/1058
BOT CHORD 3-4=-311/503
WEBS 1-3=-925/569

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 4 and 364 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T19	GABLE	1	1	I51032261
					Job Reference (optional)

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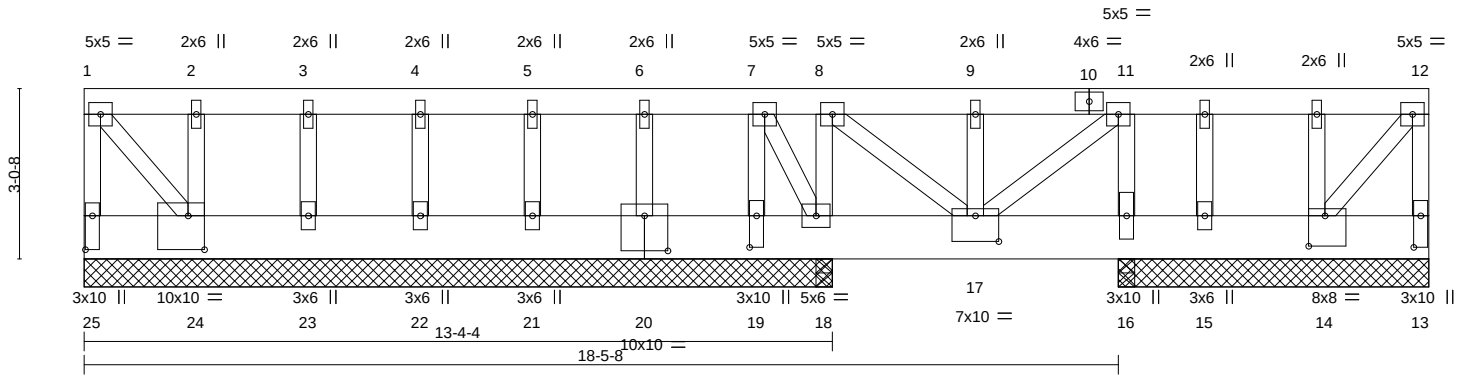

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-11-7 / 7-11-7 | 13-4-4 / 5-4-13 | 15-10-14 / 2-6-10 | 18-9-0 / 2-10-2 | 24-0-0 / 5-3-0

Plate Offsets (X,Y)-- [13:0-6-12,0-1-8], [14:0-3-8,0-6-8], [17:0-5-0,0-5-8], [19:0-6-12,0-1-8], [20:0-5-0,0-7-8], [24:0-3-8,0-7-4], [25:0-7-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	-0.01	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 204 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 13-4-4 except (jt=length) 13=5-6-8, 16=5-6-8, 16=5-6-8, 15=5-6-8, 14=5-6-8.
(lb) - Max Horz 25=-142(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 23 except 25=-1564(LC 43), 13=-1055(LC 44), 19=-2232(LC 63), 16=-893(LC 42), 15=-1222(LC 63), 14=-971(LC 39), 24=-1520(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23 except 25=1551(LC 42), 13=999(LC 61), 19=974(LC 42), 20=364(LC 64), 18=4334(LC 63), 18=4291(LC 1), 16=4874(LC 63), 16=4103(LC 1), 14=1255(LC 44), 24=1655(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-25=-1524/1550, 1-2=-1170/1180, 2-3=-813/839, 3-4=-421/447, 4-5=-392/418, 5-6=-792/818, 6-7=-1184/1218, 7-8=-935/986, 8-9=-901/427, 9-11=-1348/944, 11-12=-686/722, 12-13=-988/1032
BOT CHORD	24-25=-598/600, 23-24=-687/602, 22-23=-454/421, 21-22=-926/929, 20-21=-1470/1437, 19-20=-1978/1925, 18-19=-2285/2252, 17-18=-1791/1727, 16-17=-690/642, 15-16=-690/642, 14-15=-340/292, 13-14=-440/442
WEBS	8-17=-1831/2442, 11-17=-1768/2363, 7-19=-998/1038, 8-18=-1773/1318, 11-16=-1824/1366, 1-24=-2006/1969, 12-14=-1297/1236, 7-18=-1285/1228

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 23 except (jt=lb) 25=1564, 13=1055, 19=2232, 16=893, 15=1222, 14=971, 24=1520.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 13-4-4, 18-5-8 to 24-0-0 for 254.0 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-70, 18-25=-20, 16-18=-970(F=-950), 13-16=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T19A	GABLE	1	1	I51032262
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:41 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HWo0Vvh5iWjYTf2WYAAxR7Ge?obgqbeSARGkYXzWNK8

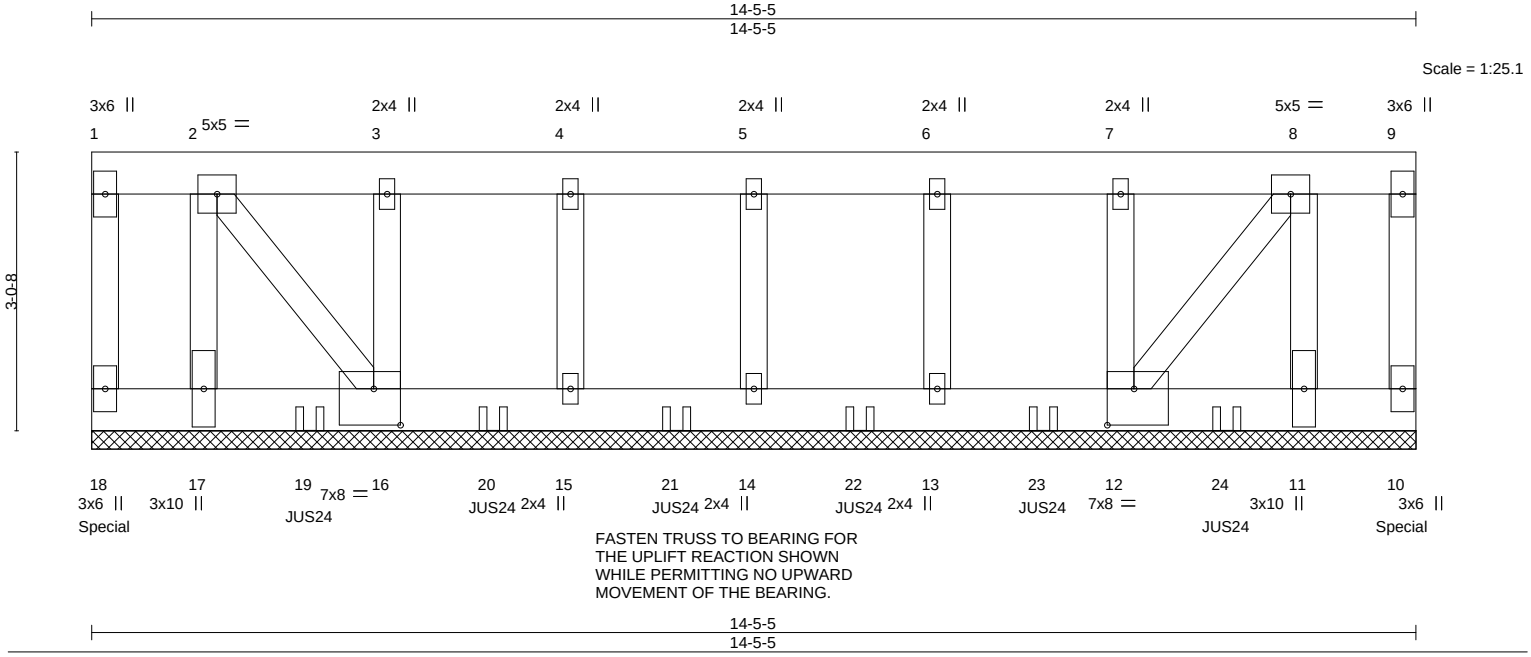

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [16:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 104 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-5-5.
(lb) - Max Horz 18=-55(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 13 except 18=-175(LC 39), 10=-172(LC 42), 16=-1677(LC 42), 17=-1542(LC 39), 12=-1669(LC 39), 11=-1537(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 18=361(LC 32), 10=359(LC 31), 14=449(LC 1), 15=440(LC 1), 16=1902(LC 59), 17=1663(LC 60), 13=441(LC 1), 12=1899(LC 60), 11=1688(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-246/253, 2-3=-1212/1218, 3-4=-812/818, 4-5=-412/418, 5-6=-412/418, 6-7=-812/818, 7-8=-1212/1218
BOT CHORD	17-18=-293/300, 16-17=-693/700, 15-16=-838/837, 14-15=-438/437, 13-14=-438/437, 12-13=-838/837, 11-12=-637/642
WEBS	3-16=-257/266, 2-17=-1570/1557, 7-12=-261/274, 8-11=-1602/1609, 2-16=-2389/2393, 8-12=-2338/2332

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 13 except (jt=lb) 18=175, 10=172, 16=1677, 17=1542, 12=1669, 11=1537.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-5-5 for 200.0 plf.

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Continued on page 2

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-9 from the left end to 12-4-9 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 274 lb down and 13 lb up at 0-1-12, and 277 lb down and 10 lb up at 14-3-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-274(B) 10=-277(B) 19=-267(B) 20=-267(B) 21=-267(B) 22=-267(B) 23=-267(B) 24=-267(B)

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T20	Roof Special	1	1	I51032263
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:44 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-i5T87xjz?R57K6m5DIje3mu9h?VR1vpusPVP8szWNK5

4-0-2	6-2-3	11-8-3	17-2-3	22-8-3	28-4-6
4-0-2	2-2-1	5-6-0	5-6-0	5-6-0	5-8-3

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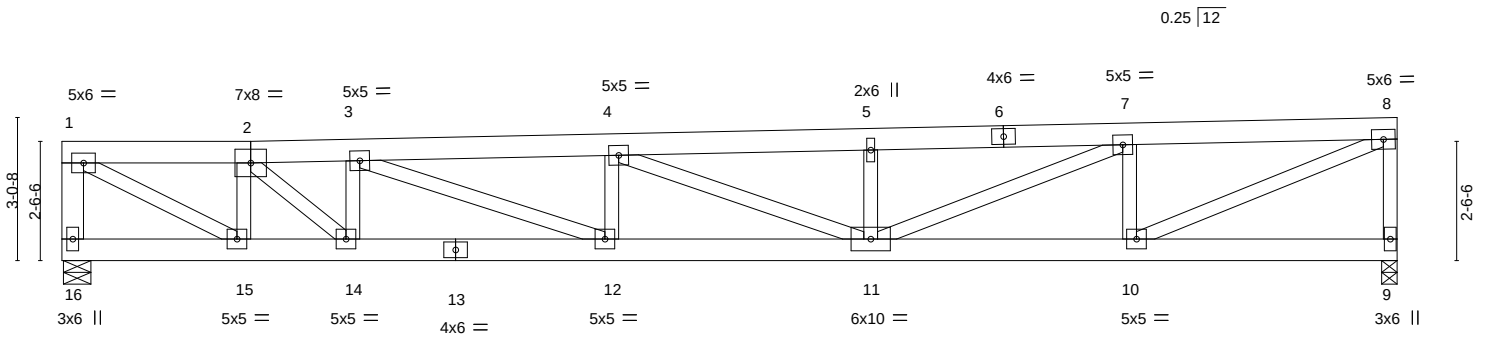

0-0-6	4-0-2	6-2-3	11-8-3	17-2-3	22-8-3	28-4-6
0-0-6	3-11-12	2-2-1	5-6-0	5-6-0	5-6-0	5-8-3

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.19	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.38	11-12	>873	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 195 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 1-16: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-6-6 oc bracing.

REACTIONS. (size) 16=0-7-0, 9=0-3-15
Max Horz 16=55(LC 12)
Max Grav 16=1282(LC 21), 9=1374(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-1199/276, 1-2=-1939/402, 2-3=-3026/605, 3-4=-4149/807, 4-5=-3930/768, 5-7=-3929/773, 7-8=-2541/514, 8-9=-1306/291
BOT CHORD	14-15=-475/2015, 12-14=-659/3025, 11-12=-855/4144, 10-11=-515/2535
WEBS	1-15=-426/2134, 2-15=-1090/261, 2-14=-267/1397, 3-14=-831/224, 3-12=-229/1199, 4-12=-339/155, 5-11=-422/164, 7-11=-307/1522, 7-10=-1057/307, 8-10=-539/2741

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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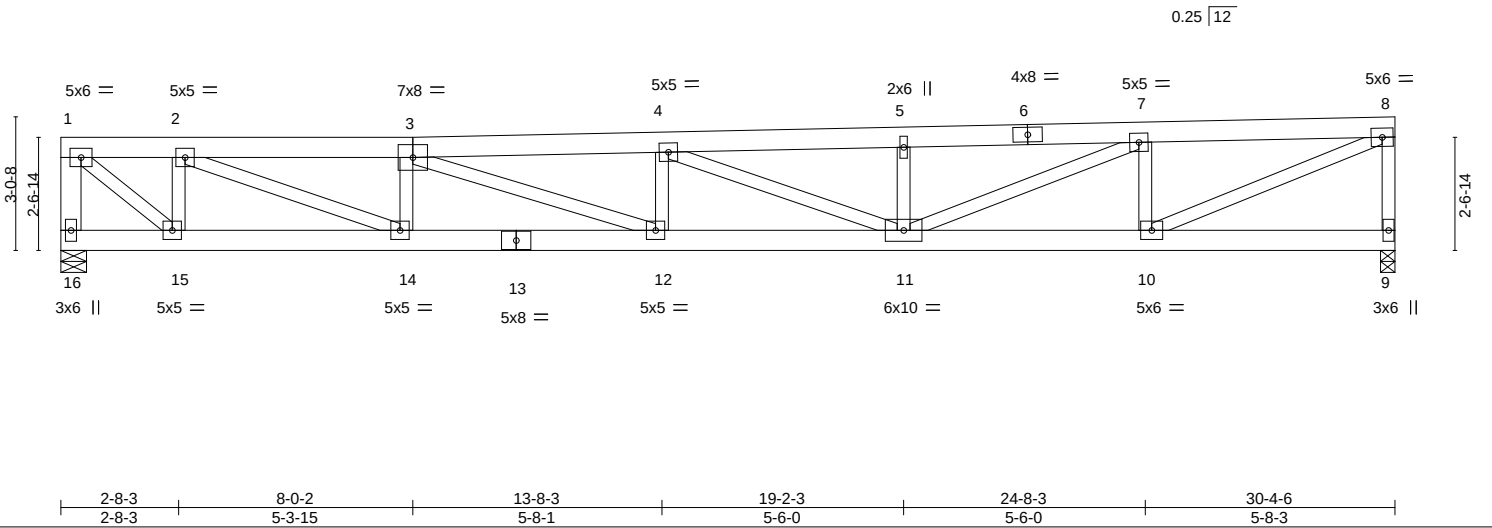
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T21	Roof Special	1	1	I51032264
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:45 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-AH1WLHkbmlD_yGLIn?EtczRIyPqmmLO243EyhIzWNK4

2-8-3	8-0-2	13-8-3	19-2-3	24-8-3	30-4-6
2-8-3	5-3-15	5-8-1	5-6-0	5-6-0	5-8-3

Scale = 1:52.4



2-8-3	8-0-2	13-8-3	19-2-3	24-8-3	30-4-6
2-8-3	5-3-15	5-8-1	5-6-0	5-6-0	5-8-3

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.22	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.48	11-12	>745	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 207 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-16: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.

REACTIONS. (size) 16=0-7-0, 9=0-3-15
Max Horz 16=55(LC 14)
Max Grav 16=1394(LC 21), 9=1445(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1365/266, 1-2=-1574/317, 2-3=-3686/696, 3-4=-4685/877, 4-5=-4256/791, 5-7=-4256/795, 7-8=-2699/515, 8-9=-1376/288
BOT CHORD 14-15=-369/1574, 12-14=-764/3739, 11-12=-921/4681, 10-11=-515/2694
WEBS 1-15=-384/2004, 2-15=-1219/302, 2-14=-426/2350, 3-14=-800/234, 3-12=-187/1114, 4-12=-278/134, 4-11=-537/114, 5-11=-415/154, 7-11=-329/1706, 7-10=-1129/307, 8-10=-540/2914

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

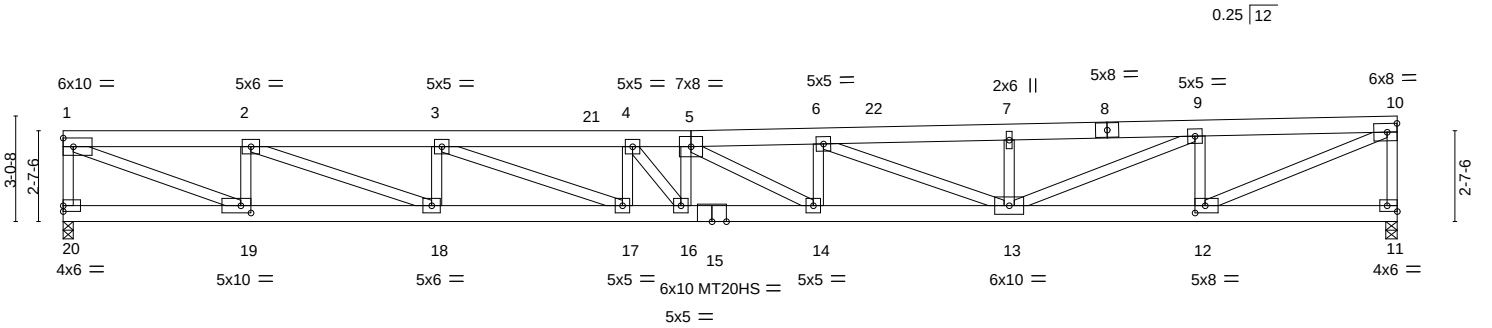
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T22	Roof Special	1	1	I51032265
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:47 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-6g9HmylrIMTiBaVguQGLhOWcpDQGEBlLYNj3lBzWNK2

5-3-3	10-9-3	16-3-3	18-1-2	21-9-3	27-3-3	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	1-9-15	3-8-1	5-6-0	5-6-0	5-8-3

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	18-1-2	21-9-3	27-3-3	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	1-9-15	3-8-1	5-6-0	5-6-0	5-8-3

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.56	16	>824	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-1.19	14-16	>383	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 262 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=0-3-15
Max Horz 20=55(LC 12)
Max Grav 20=1822(LC 21), 11=1749(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1746/259, 1-2=-3760/506, 2-3=-6413/848, 3-4=-7660/1012, 4-5=-7762/1029, 5-6=-7389/993, 6-7=-5897/805, 7-9=-5898/809, 9-10=-3417/486, 10-11=-1677/263
BOT CHORD	18-19=-552/3760, 17-18=-894/6413, 16-17=-1057/7660, 14-16=-1072/7768, 13-14=-1023/7385, 12-13=-483/3412
WEBS	1-19=-525/3992, 2-19=-1463/278, 2-18=-381/2850, 3-18=-928/206, 3-17=-188/1431, 4-17=-461/124, 4-16=-56/427, 5-16=-288/79, 5-14=-608/57, 6-14=0/401, 6-13=-1611/218, 7-13=-436/134, 9-13=-370/2718, 9-12=-1463/292, 10-12=-507/3701

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

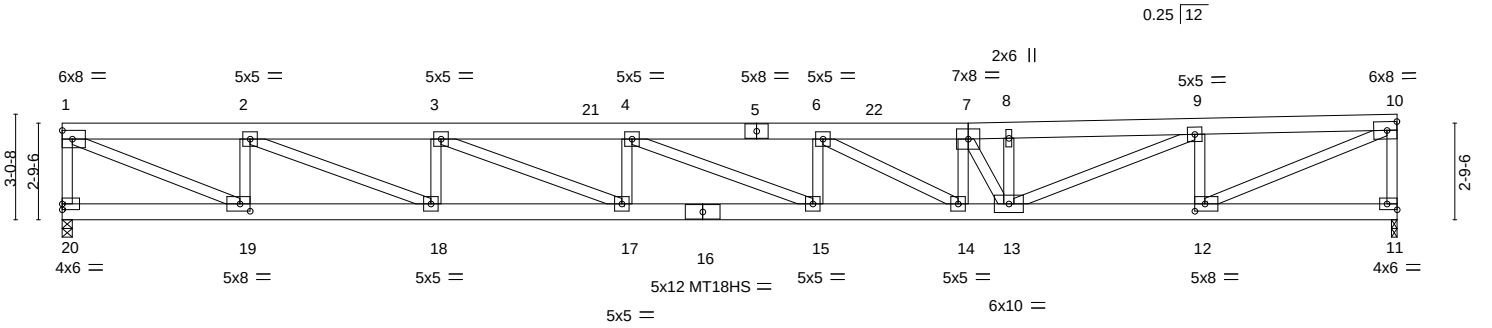
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T23	Roof Special	1	1	I51032266
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:49 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-23H1Ben6qzjQRtf30rJpmpcyw06Mi5rd?hCAq3zWNK0

5-3-3	10-9-3	16-3-3	21-9-3	26-1-2	27-3-3	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	4-3-15	1-2-1	5-6-0	5-8-3

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	21-9-3	26-1-2	27-3-3	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	4-3-15	1-2-1	5-6-0	5-8-3

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.53	15-17	>866	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.11	15-17	>414	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 264 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=0-1-15 (req. 0-2-2)
Max Horz 20=55(LC 14)
Max Grav 20=1848(LC 21), 11=1784(LC 21)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1776/259, 1-2=-3560/475, 2-3=-6076/792, 3-4=-7346/950, 4-6=-7347/958, 6-7=-6482/853, 7-8=-5976/793, 8-9=-5977/796, 9-10=-3512/488, 10-11=-1715/263
BOT CHORD	18-19=-516/3560, 17-18=-832/6076, 15-17=-990/7346, 14-15=-988/7347, 13-14=-870/6446, 12-13=-485/3507
WEBS	1-19=-498/3835, 2-19=-1494/280, 2-18=-357/2732, 3-18=-955/204, 3-17=-185/1379, 4-17=-431/140, 6-14=-1120/131, 7-14=-53/635, 7-13=-1126/135, 9-13=-355/2703, 9-12=-1489/293, 10-12=-510/3806

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

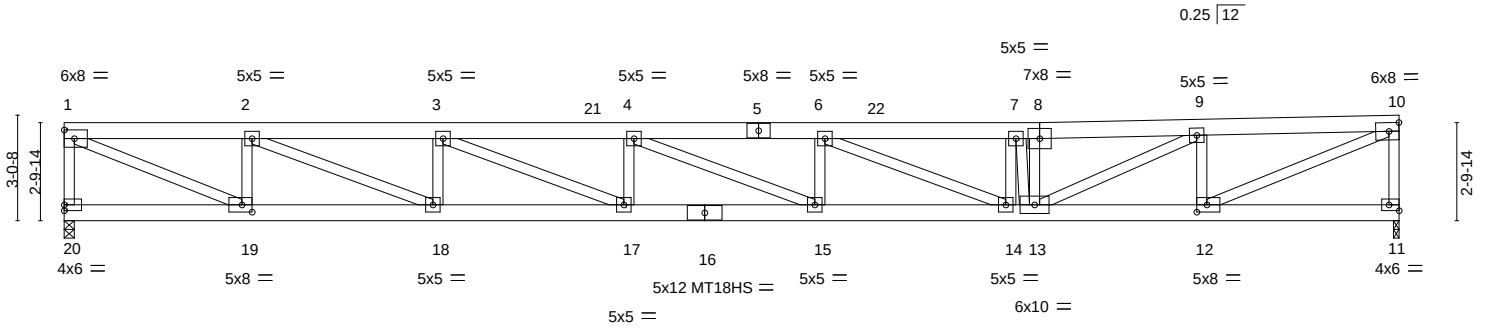
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T24	Roof Special	1	1	I51032267
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:50 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-WFrPO_nkbHrH21EFZZq2J188vQSqRYGnELyjMWzWNK?

5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	28-1-2	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	0-9-15	4-8-1	5-8-3

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	28-1-2	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	0-9-15	4-8-1	5-8-3

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.52	15-17	>881	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-1.08	15-17	>423	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 265 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=0-1-15 (req. 0-2-2)
Max Horz 20=55(LC 12)
Max Grav 20=1852(LC 21), 11=1795(LC 21)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1781/260, 1-2=-3509/468, 2-3=-5992/780, 3-4=-7249/935, 4-6=-7271/944, 6-7=-6063/797, 7-8=-5780/761, 8-9=-5787/764, 9-10=-3503/483, 10-11=-1719/263
BOT CHORD	18-19=-507/3509, 17-18=-818/5992, 15-17=-973/7249, 14-15=-972/7271, 13-14=-812/6026, 12-13=-481/3498
WEBS	1-19=-491/3794, 2-19=-1499/281, 2-18=-353/2704, 3-18=-960/204, 3-17=-183/1368, 4-17=-434/138, 6-14=-1433/173, 7-14=-20/643, 7-13=-1178/164, 9-13=-332/2567, 9-12=-1512/290, 10-12=-504/3792

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

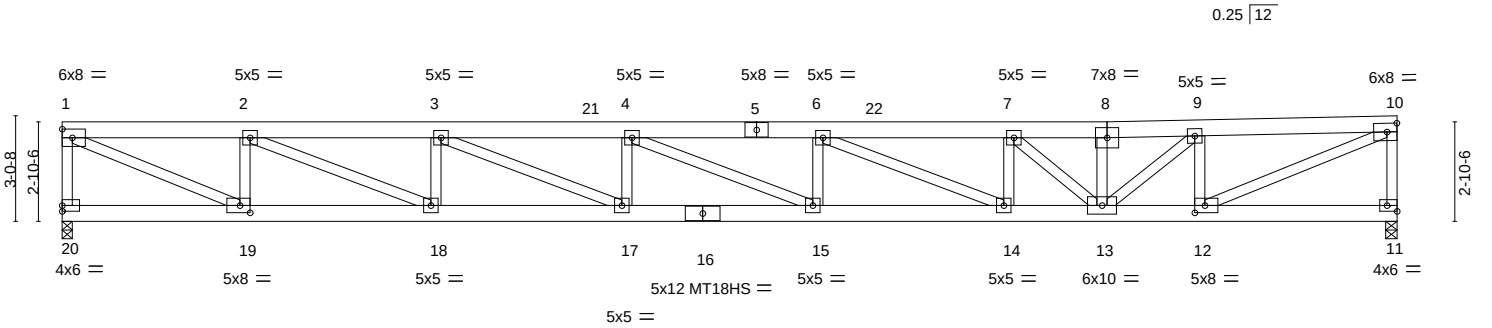
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T25	Roof Special	1	1	I51032268
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:52 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-TeyApgp_6u5_ILNeh_sWOSEUYE8VvSu4hfRqPOzWNJz

5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	30-1-2	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	2-9-15	2-8-1	5-8-3

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	30-1-2	32-9-3	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	2-9-15	2-8-1	5-8-3

Plate Offsets (X,Y)-- [10:0-3-7,0-3-0], [11:Edge,0-2-0], [12:0-3-8,0-2-8], [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.50	15-17	>913	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-1.04	15-17	>440	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.14	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 265 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 20=0-3-8, 11=0-3-15
Max Horz 20=55(LC 14)
Max Grav 20=1856(LC 21), 11=1807(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1786/260, 1-2=-3458/462, 2-3=-5907/768, 3-4=-7152/920, 4-6=-7178/928, 6-7=-6015/788, 7-8=-4901/649, 8-9=-4917/652, 9-10=-3477/476, 10-11=-1721/262
BOT CHORD	18-19=-499/3458, 17-18=-805/5907, 15-17=-957/7152, 14-15=-955/7178, 13-14=-803/6015, 12-13=-474/3474
WEBS	1-19=-485/3752, 2-19=-1504/281, 2-18=-348/2674, 3-18=-965/205, 3-17=-181/1358, 4-17=-436/138, 6-14=-1348/166, 7-14=-12/653, 7-13=-1554/195, 9-13=-248/1938, 9-12=-1537/286, 10-12=-496/3759

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
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Chesterfield, MO 63017

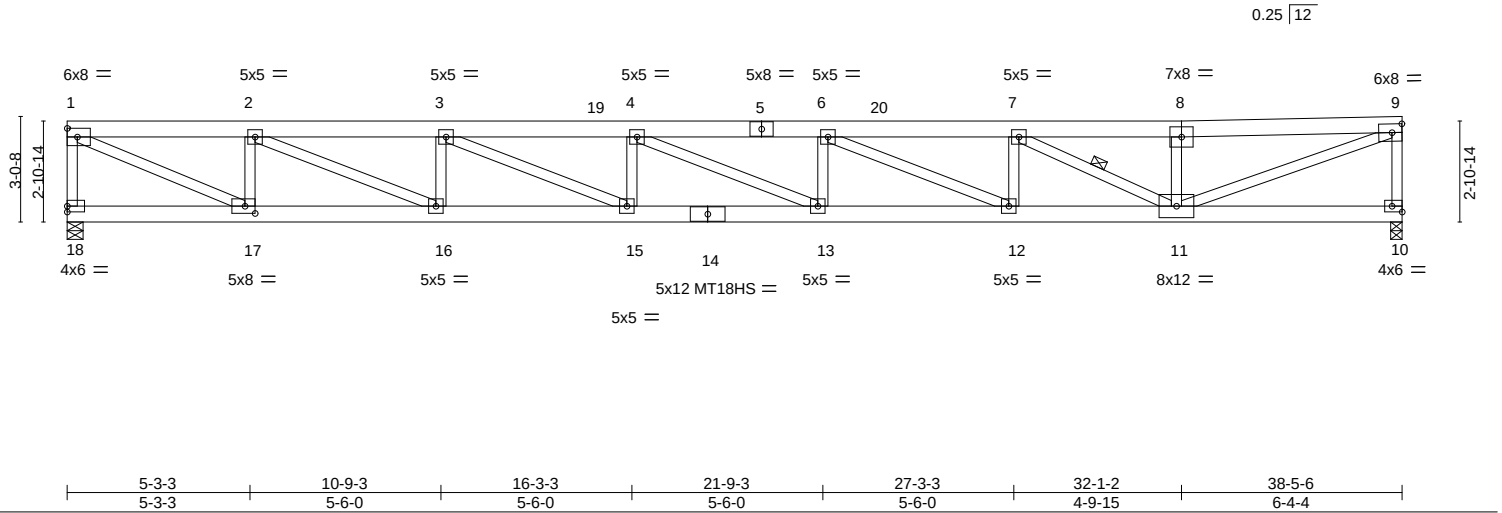
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF) I51032269
PRYOR-R2B	T26	Roof Special	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:53 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-xqWY00qctCErvVyqFhNlwfmfSeU_evHDwJANyqzWNJy

5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	4-9-15	6-4-4

Scale = 1:66.4



5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	4-9-15	6-4-4

Plate Offsets (X,Y)-- [9:0-3-7,0-3-0], [10:Edge,0-2-0], [17:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.50	13-15	>917	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-1.03	13-15	>444	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.14	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 9-11: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-1-12 oc bracing.
WEBS	1 Row at midpt 7-11

REACTIONS. (size) 18=0-5-8, 10=0-3-15
Max Horz 18=55(LC 14)
Max Grav 18=1867(LC 35), 10=1819(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1798/260, 1-2=-3419/455, 2-3=-5832/756, 3-4=-7052/906, 4-6=-7086/913, 6-7=-5940/777, 7-8=-3959/518, 8-9=-3991/530, 9-10=-1731/268
BOT CHORD	16-17=-491/3419, 15-16=-792/5832, 13-15=-942/7052, 12-13=-940/7086, 11-12=-792/5940
WEBS	1-17=-479/3724, 2-17=-1514/281, 2-16=-343/2644, 3-16=-968/205, 3-15=-178/1346, 4-15=-440/139, 6-12=-1303/162, 7-12=-14/640, 7-11=-2310/305, 8-11=-472/146, 9-11=-544/4222

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

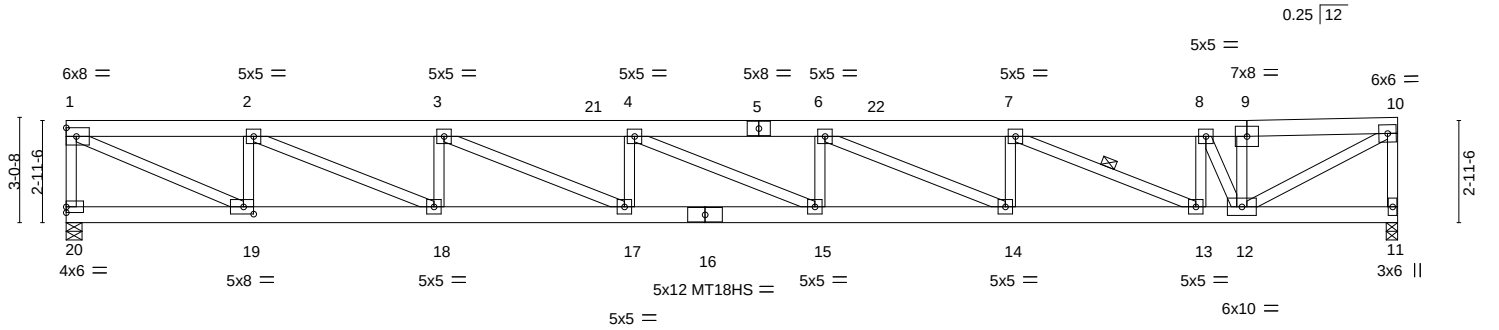
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T27	Roof Special	1	1	I51032270
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:55 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-tDeIRhrtPpUZ9o6DM6QD04s?2R9d6psWOdfU0jzWNJw

5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-9-3	34-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	5-6-0	1-3-15	4-4-4

Scale = 1:66.5



5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-9-3	34-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	5-6-0	1-3-15	4-4-4

Plate Offsets (X,Y)-- [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.48	15-17	>951	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.99	15-17	>464	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.15	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 266 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS. (size) 20=0-5-8, 11=0-3-15
Max Horz 20=55(LC 14)
Max Grav 20=1877(LC 35), 11=1832(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-1809/260, 1-2=-3385/449, 2-3=-5780/745, 3-4=-6994/893, 4-6=-7022/900, 6-7=-5851/761, 7-8=-3594/481, 8-9=-2824/380, 9-10=-2832/384, 10-11=-1759/256
BOT CHORD 18-19=-483/3385, 17-18=-779/5780, 15-17=-927/6994, 14-15=-926/7022, 13-14=-774/5851, 12-13=-483/3594
WEBS 1-19=-474/3700, 2-19=-1525/282, 2-18=-339/2630, 3-18=-977/205, 3-17=-176/1332, 4-17=-444/140, 6-14=-1286/166, 7-14=0/627, 7-13=-2524/320, 8-13=-105/1191, 8-12=-1833/245, 10-12=-416/3234

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

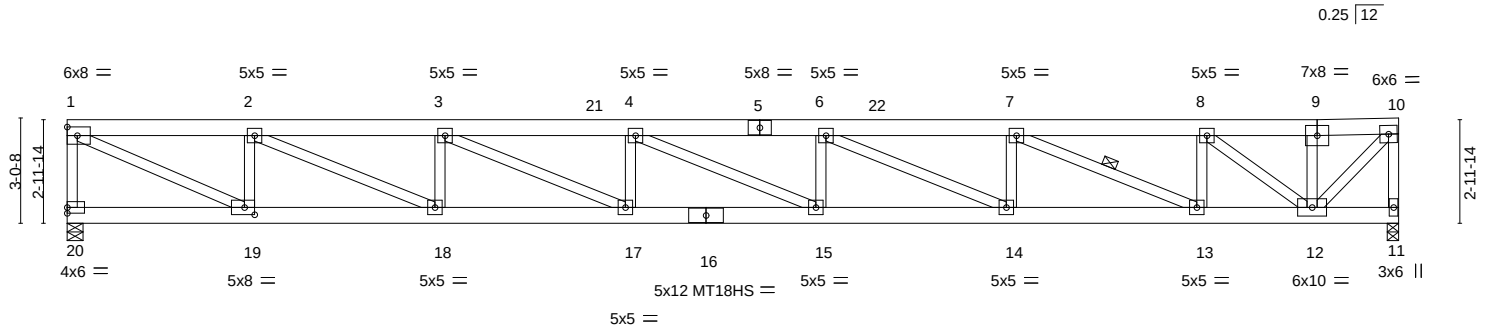
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T28	Roof Special	1	1	I51032271
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:56 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-LPCgf1sVA7cQmyhPwpxSYIOAurW1rGDfcHP1Y9zWNJv

5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-9-3	36-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	5-6-0	3-3-15	2-4-4

Scale = 1:66.5



5-3-3	10-9-3	16-3-3	21-9-3	27-3-3	32-9-3	36-1-2	38-5-6
5-3-3	5-6-0	5-6-0	5-6-0	5-6-0	5-6-0	3-3-15	2-4-4

Plate Offsets (X,Y)-- [19:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.47	15-17	>975	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.96	15-17	>479	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.15	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 267 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-3-6 oc bracing.
WEBS	1 Row at midpt 7-13

REACTIONS. (size) 20=0-5-8, 11=0-3-15
Max Horz 20=55(LC 14)
Max Grav 20=1884(LC 35), 11=1846(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-1816/260, 1-2=-3343/442, 2-3=-5713/734, 3-4=-6921/879, 4-6=-6961/886, 6-7=-5826/750, 7-8=-3561/473, 8-9=-1594/226, 9-10=-1605/230, 10-11=-1790/245
BOT CHORD	18-19=-475/3343, 17-18=-767/5713, 15-17=-912/6921, 14-15=-911/6961, 13-14=-763/5826, 12-13=-473/3561
WEBS	1-19=-468/3668, 2-19=-1532/282, 2-18=-335/2609, 3-18=-983/205, 3-17=-174/1330, 4-17=-450/140, 6-14=-1251/163, 7-14=0/619, 7-13=-2493/319, 8-13=-81/1161, 8-12=-2521/325, 10-12=-302/2339

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

March 28,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

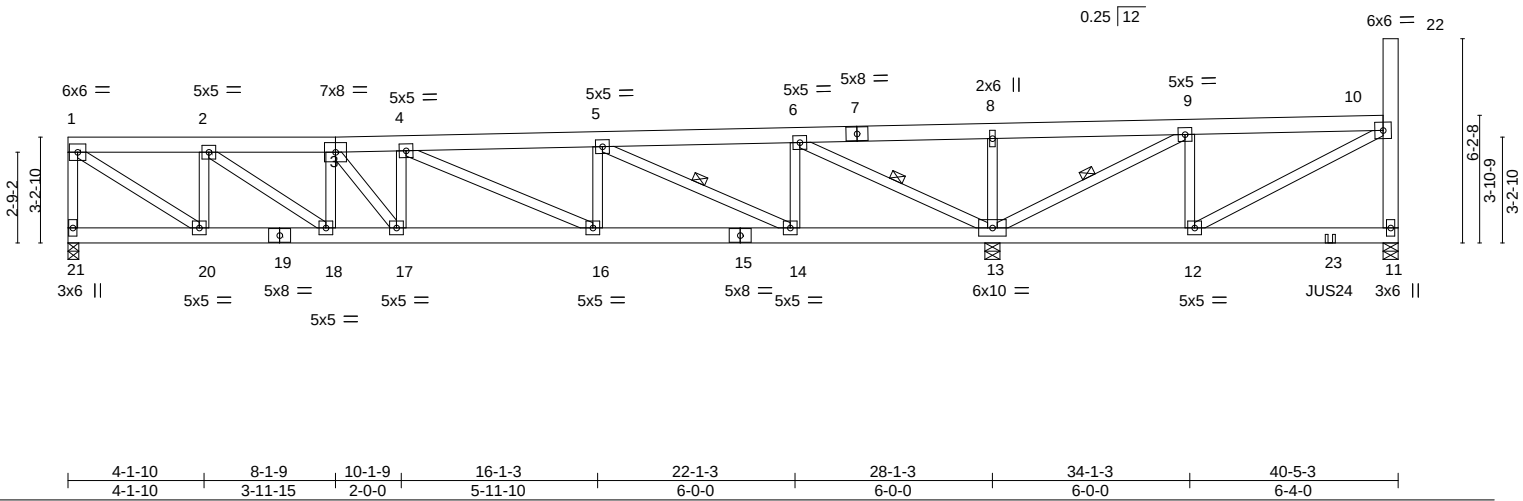
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T29	Roof Special Girder	1	1	I51032272
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:41:58 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-HoJR4juliks80Gro1EzxdjTVsfKqJG1y4bu8d2zWNJt

4-1-10	8-1-9	10-1-9	16-1-3	22-1-3	28-1-3	34-1-3	40-5-3
4-1-10	3-11-15	2-0-0	5-11-10	6-0-0	6-0-0	6-0-0	6-4-0

Scale = 1:70.0



4-1-10	8-1-9	10-1-9	16-1-3	22-1-3	28-1-3	34-1-3	40-5-3
4-1-10	3-11-15	2-0-0	5-11-10	6-0-0	6-0-0	6-0-0	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.09	16-17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.20	16-17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 295 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	1 Row at midpt 5-14, 6-13, 9-13

REACTIONS. (size) 21=0-3-15, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-256(LC 12)
Max Grav 21=1130(LC 21), 11=560(LC 84), 13=2618(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1080/172, 1-2=-1382/188, 2-3=-2105/287, 3-4=-2330/329, 4-5=-2129/316, 5-6=-779/154, 6-8=-311/1484, 8-9=-306/1484, 9-10=-292/304, 10-11=-324/122
BOT CHORD	18-20=-381/1382, 17-18=-459/2130, 16-17=-475/2329, 14-16=-412/2124, 13-14=-199/774, 12-13=-267/183
WEBS	1-20=-233/1653, 2-20=-866/193, 2-18=-133/950, 3-18=-512/99, 3-17=-62/476, 4-17=-297/107, 4-16=-312/72, 5-16=0/260, 5-14=-1504/237, 6-14=-33/747, 6-13=-2527/365, 8-13=-503/156, 9-13=-1656/372, 9-12=-19/279, 10-12=-310/163

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-7, Corner(3) 35-2-7 to 40-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=256.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 67, 68, 69, 70, 77, 78, 79, 80, 81, 82, 83, 84 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 38-4-7 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

March 28,2022

LOAD CASE(S) Standard

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 9=-70-to-10=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-60, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 9=-60-to-10=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-66, 3-9=-60, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 9=-60-to-10=-120
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-39, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-117(F)
   Trapezoidal Loads (plf)
   Vert: 9=-39-to-10=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-78, 3-9=-70, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 9=-70-to-10=-150
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-42, 11-21=-20
   Concentrated Loads (lb)
   Vert: 23=-146(F)
   Trapezoidal Loads (plf)
   Vert: 9=-42-to-10=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-9=-51, 11-21=-20
   Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
   Concentrated Loads (lb)
   Vert: 23=163(F)
   Trapezoidal Loads (plf)
   Vert: 9=-51-to-10=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-9=-57, 11-21=-20
   Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
   Concentrated Loads (lb)
   Vert: 23=163(F)
   Trapezoidal Loads (plf)
   Vert: 9=-57-to-10=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-9=-51, 11-21=-20
   Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
   Concentrated Loads (lb)
   Vert: 23=163(F)
   Trapezoidal Loads (plf)
   Vert: 9=-51-to-10=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-9=-57, 11-21=-20
   Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
   Concentrated Loads (lb)
   Vert: 23=163(F)
   Trapezoidal Loads (plf)
   Vert: 9=-57-to-10=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-146(F)
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-79, 3-9=-42, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-146(F)
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-42, 3-9=-79, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-146(F)
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-67, 3-9=-39, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-117(F)
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-39, 3-9=-67, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-117(F)
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-58, 3-9=-30, 11-21=-20
Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-9=-58, 11-21=-20
Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-9=-36, 11-21=-20
Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-9=-63, 11-21=-20
Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-58, 3-9=-30, 11-21=-20
Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
Concentrated Loads (lb)
Vert: 23=163(F)

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-9=-58, 11-21=-20
Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-9=-36, 11-21=-20
Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-9=-63, 11-21=-20
Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
Concentrated Loads (lb)
Vert: 23=163(F)
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-79, 3-9=-42, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-146(F)
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-42, 3-9=-79, 11-21=-20
Concentrated Loads (lb)
Vert: 23=-146(F)
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

77) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-58, 3-9=-30, 11-21=-20
Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

78) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-9=-58, 11-21=-20
Horz: 1-21=13, 3-10=-9, 10-11=3, 10-22=27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

79) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-9=-36, 11-21=-20
Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

80) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-9=-63, 11-21=-20
Horz: 1-21=-3, 3-10=-3, 10-11=-13, 10-22=-27
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

81) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-58, 3-9=-30, 11-21=-20
Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

82) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-9=-58, 11-21=-20
Horz: 1-21=10, 3-10=-9, 10-11=2, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

83) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-9=-36, 11-21=-20
Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

84) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-9=-63, 11-21=-20
Horz: 1-21=-2, 3-10=-3, 10-11=-10, 10-22=18
Concentrated Loads (lb)
Vert: 23=-304(F)
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

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MiTek
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Chesterfield, MO 63017

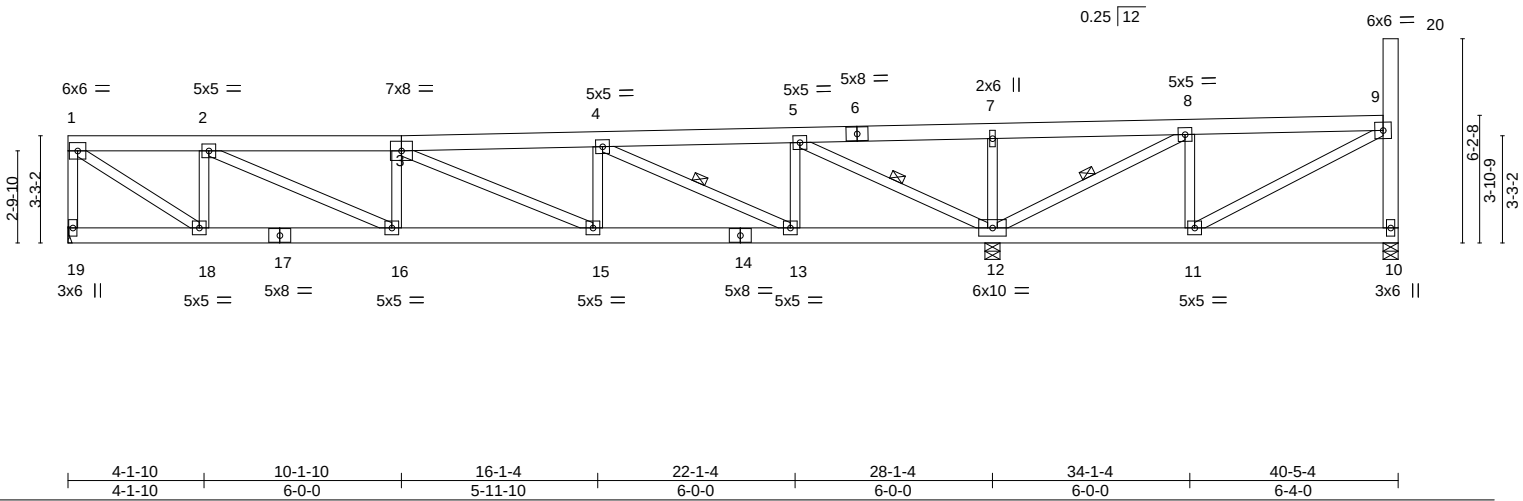
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T30	Roof Special	1	1	I51032273
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:00 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-EARBUPv?EM6sFZ_A9f?Pj8ZrRS0HnAjFXvNFixzWNJr

4-1-10	10-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	5-11-10	6-0-0	6-0-0	6-0-0	6-4-0

Scale = 1:70.0



4-1-10	10-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	5-11-10	6-0-0	6-0-0	6-0-0	6-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.09	15-16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.20	15-16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 290 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 10-20: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS	1 Row at midpt 4-13, 5-12, 8-12

REACTIONS. (size) 19=Mechanical, 10=0-5-8, 12=0-5-8
Max Horz 19=164(LC 12)
Max Uplift 10=-6(LC 12)
Max Grav 19=1136(LC 21), 10=375(LC 36), 12=2567(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1095/170, 1-2=-1418/194, 2-3=-2325/311, 3-4=-2063/311, 4-5=-744/147, 5-7=-302/1492, 7-8=-298/1492, 9-10=-306/80
BOT CHORD	16-18=-384/1418, 15-16=-468/2341, 13-15=-410/2058, 12-13=-196/738
WEBS	1-18=-241/1710, 2-18=-882/205, 2-16=-142/1056, 3-16=-342/136, 3-15=-400/65, 4-15=0/298, 4-13=-1527/238, 5-13=-28/754, 5-12=-2468/357, 7-12=-502/152, 8-12=-1584/243, 9-11=-284/78

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-8, Corner(3) 35-2-8 to 40-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-19=-20

March 28,2022

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-8=-60, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-78, 3-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=13, 3-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-3, 3-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=10, 3-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-2, 3-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-79, 3-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-42, 3-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-67, 3-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-67, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-67-to-9=-127

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-58, 3-8=-30, 10-19=-20
Horz: 1-19=13, 3-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-8=-58, 10-19=-20
Horz: 1-19=13, 3-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-8=-36, 10-19=-20
Horz: 1-19=-3, 3-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-8=-63, 10-19=-20
Horz: 1-19=-3, 3-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-58, 3-8=-30, 10-19=-20
Horz: 1-19=10, 3-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30, 3-8=-58, 10-19=-20
Horz: 1-19=10, 3-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-63, 3-8=-36, 10-19=-20
Horz: 1-19=-2, 3-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-36, 3-8=-63, 10-19=-20
Horz: 1-19=-2, 3-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-79, 3-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-42, 3-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

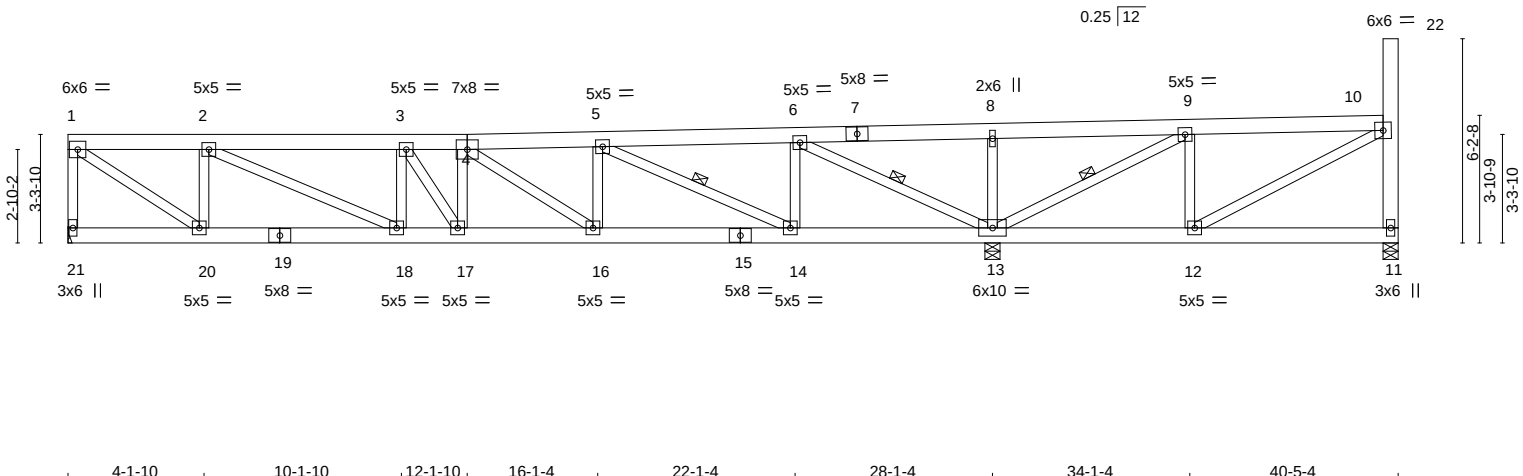
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T31	Roof Special	1	1	I51032274
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:02 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-AZZyv5xGmzMaUt8ZG42toZeB6Gh7F4EY?DsMmpzWNJp

4-1-10	10-1-10	12-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	2-0-0	3-11-10	6-0-0	6-0-0	6-0-0	6-4-0

Scale = 1:70.0



4-1-10	10-1-10	12-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	2-0-0	3-11-10	6-0-0	6-0-0	6-0-0	6-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	16-17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.20	16-17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 296 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	1 Row at midpt 5-14, 6-13, 9-13

REACTIONS. (size) 21=Mechanical, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-6(LC 12)
Max Grav 21=1143(LC 21), 11=390(LC 36), 13=2516(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1105/169, 1-2=-1408/188, 2-3=-2339/319, 3-4=-2334/325, 4-5=-2044/306, 5-6=-741/147, 6-8=-307/1516, 8-9=-302/1516, 10-11=-321/78
BOT CHORD	18-20=-377/1408, 17-18=-469/2339, 16-17=-457/2331, 14-16=-402/2042, 13-14=-194/736
WEBS	1-20=-236/1707, 2-20=-882/207, 2-18=-156/1031, 3-18=-358/128, 4-16=-424/68, 5-16=0/358, 5-14=-1510/231, 6-14=-23/751, 6-13=-2463/359, 8-13=-496/151, 9-13=-1555/243, 10-12=-288/78

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-8, Corner(3) 35-2-8 to 40-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

March 28,2022

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 4-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-78, 4-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-67, 4-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-39, 4-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-9=-30, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-9=-58, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-9=-36, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-9=-63, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-9=-30, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-9=-58, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-9=-36, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-9=-63, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T32	Roof Special	1	1	I51032275
					Job Reference (optional)

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ID:FqERapFml8k6Mqruymui65z94f_-6xhiKmyWIacHkBIxOV4Lt_jXh3Ncj_grSWLSrizWNJn

4-1-10	10-1-10	14-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	4-0-0	1-11-10	6-0-0	6-0-0	6-0-0	6-4-0

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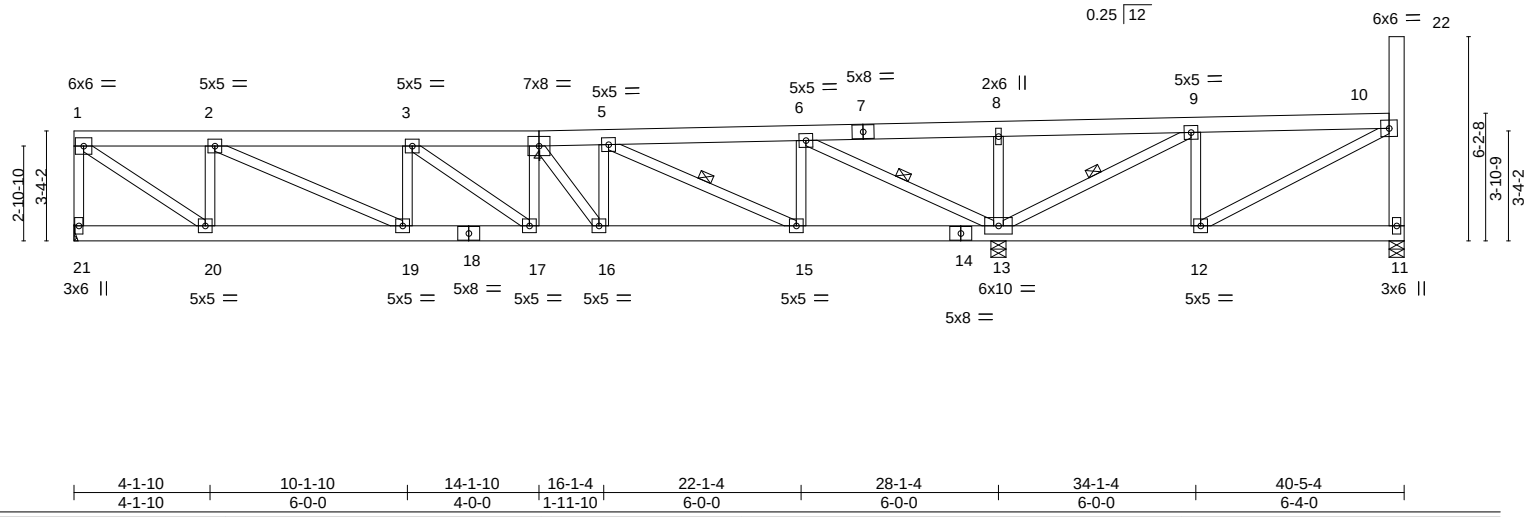

4-1-10	10-1-10	14-1-10	16-1-4	22-1-4	28-1-4	34-1-4	40-5-4
4-1-10	6-0-0	4-0-0	1-11-10	6-0-0	6-0-0	6-0-0	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.20	17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 296 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
11-22: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 1 Row at midpt 5-15, 6-13, 9-13

REACTIONS. (size) 21=Mechanical, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 14)
Max Uplift 11=-5(LC 12)
Max Grav 21=1151(LC 21), 11=408(LC 36), 13=2499(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1112/169, 1-2=-1396/187, 2-3=-2341/316, 3-4=-2258/320, 4-5=-2058/305, 5-6=-733/148, 6-8=-306/1521, 8-9=-301/1521, 10-11=-340/79
BOT CHORD 19-20=-374/1396, 17-19=-466/2341, 16-17=-435/2252, 15-16=-400/2058, 13-15=-195/729
WEBS 1-20=-234/1701, 2-20=-889/207, 2-19=-157/1048, 3-19=-357/136, 4-16=-421/62, 5-16=0/435, 5-15=-1513/228, 6-15=-21/756, 6-13=-2484/359, 8-13=-493/150, 9-13=-1558/243, 10-12=-284/78

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-2-8, Corner(3) 35-2-8 to 40-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 4-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-78, 4-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-67, 4-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-39, 4-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-9=-30, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-9=-58, 11-21=-20
Horz: 1-21=13, 4-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-9=-36, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-9=-63, 11-21=-20
Horz: 1-21=-3, 4-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-9=-30, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-9=-58, 11-21=-20
Horz: 1-21=10, 4-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-9=-36, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-9=-63, 11-21=-20
Horz: 1-21=-2, 4-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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Chesterfield, MO 63017

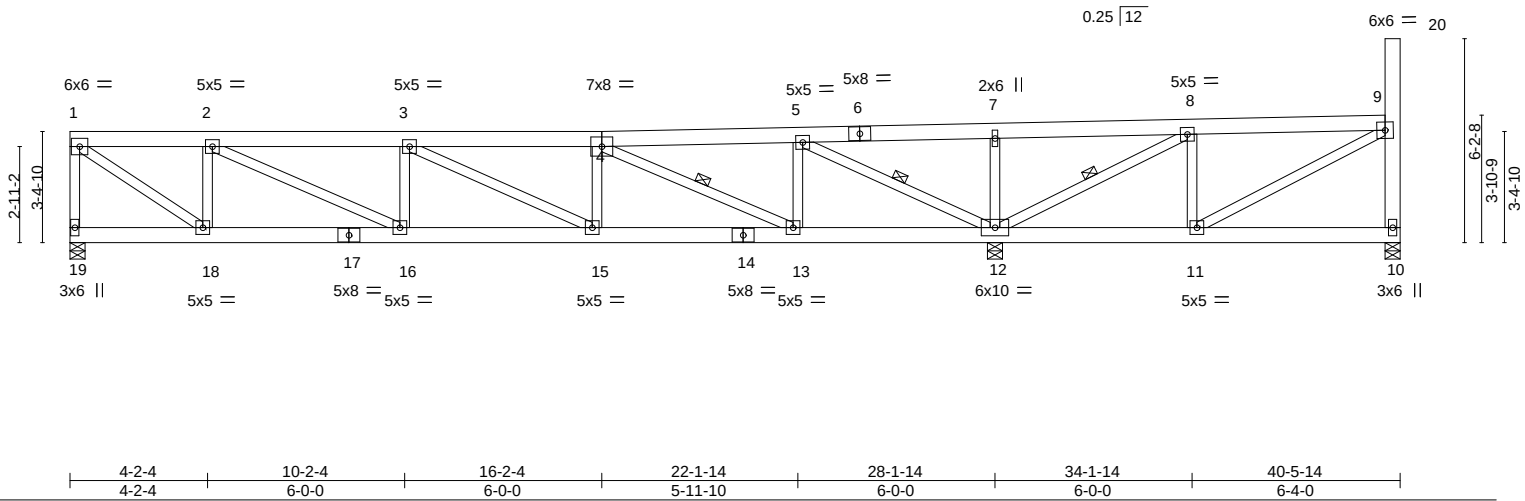
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T33	Roof Special	1	1	I51032276
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:06 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-2KoSlS_mpCs?zUSKVw6pyPptCt3iBu48vqqZvazWNJl

4-2-4	10-2-4	16-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	6-0-0	5-11-10	6-0-0	6-0-0	6-4-0

Scale = 1:70.1



4-2-4	10-2-4	16-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	6-0-0	5-11-10	6-0-0	6-0-0	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	15-16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.20	15-16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 291 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 10-20: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS	1 Row at midpt 4-13, 5-12, 8-12

REACTIONS. (size) 19=0-5-8, 10=0-5-8, 12=0-5-8
Max Horz 19=164(LC 12)
Max Uplift 10=-6(LC 12)
Max Grav 19=1161(LC 21), 10=427(LC 36), 12=2508(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1122/171, 1-2=-1398/187, 2-3=-2374/320, 3-4=-2115/298, 4-5=-723/150, 5-7=-301/1518, 7-8=-296/1517, 9-10=-359/80
BOT CHORD	16-18=-373/1398, 15-16=-470/2374, 13-15=-400/2102, 12-13=-200/719
WEBS	1-18=-232/1703, 2-18=-893/205, 2-16=-163/1086, 3-16=-365/145, 3-15=-403/79, 4-15=0/306, 4-13=-1541/223, 5-13=-19/764, 5-12=-2503/360, 7-12=-489/150, 8-12=-1556/243, 9-11=-298/77

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 10-19=-20
   Trapezoidal Loads (plf)
   Vert: 8=-70-to-9=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 4-8=-60, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-78, 4-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=13, 4-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-3, 4-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=10, 4-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-2, 4-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-67, 4-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-39, 4-8=-67, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-67-to-9=-127

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-8=-30, 10-19=-20
Horz: 1-19=13, 4-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-8=-58, 10-19=-20
Horz: 1-19=13, 4-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-8=-36, 10-19=-20
Horz: 1-19=-3, 4-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-8=-63, 10-19=-20
Horz: 1-19=-3, 4-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-58, 4-8=-30, 10-19=-20
Horz: 1-19=10, 4-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-30, 4-8=-58, 10-19=-20
Horz: 1-19=10, 4-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-63, 4-8=-36, 10-19=-20
Horz: 1-19=-2, 4-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-36, 4-8=-63, 10-19=-20
Horz: 1-19=-2, 4-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-79, 4-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-42, 4-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T34	Roof Special	1	1	I51032277
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:07 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-WWMryo?OaV_sbe1W3dd2VcL2fHPxwKPH8UZ7R1zWNJk

4-2-4	10-2-4	16-1-14	18-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	2-0-6	3-11-10	6-0-0	6-0-0	6-4-0

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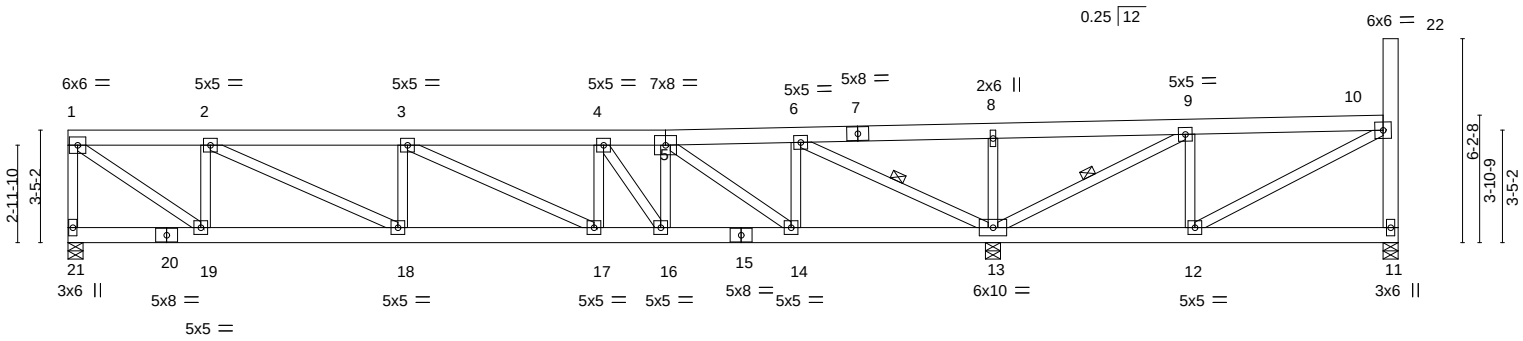

4-2-4	10-2-4	16-1-14	18-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	2-0-6	3-11-10	6-0-0	6-0-0	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.09	17-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.19	17-18	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 297 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	1 Row at midpt 6-13, 9-13

REACTIONS. (size) 21=0-5-8, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-6(LC 12)
Max Grav 21=1163(LC 21), 11=440(LC 36), 13=2534(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1123/171, 1-2=-1381/185, 2-3=-2343/312, 3-4=-2099/302, 4-5=-1699/258, 5-6=-668/142, 6-8=-306/1550, 8-9=-301/1549, 9-10=-181/280, 10-11=-371/79
BOT CHORD	18-19=-370/1381, 17-18=-460/2343, 16-17=-400/2099, 14-16=-338/1699, 13-14=-189/666, 12-13=-258/73
WEBS	3-18=-360/147, 3-17=-337/67, 4-16=-757/111, 5-16=-74/671, 5-14=-1289/186, 6-14=-39/827, 6-13=-2480/352, 8-13=-510/156, 9-13=-1567/243, 9-12=0/264, 10-12=-352/79, 2-19=-897/204, 2-18=-157/1073, 1-19=-231/1692

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-66, 5-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-78, 5-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 5-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 5-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 5-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 5-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 5-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 5-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-67, 5-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 5-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

Continued on page 3

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MiTek
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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-58, 5-9=-30, 11-21=-20
Horz: 1-21=13, 5-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-30, 5-9=-58, 11-21=-20
Horz: 1-21=13, 5-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-63, 5-9=-36, 11-21=-20
Horz: 1-21=-3, 5-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-36, 5-9=-63, 11-21=-20
Horz: 1-21=-3, 5-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-58, 5-9=-30, 11-21=-20
Horz: 1-21=10, 5-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-30, 5-9=-58, 11-21=-20
Horz: 1-21=10, 5-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-63, 5-9=-36, 11-21=-20
Horz: 1-21=-2, 5-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-36, 5-9=-63, 11-21=-20
Horz: 1-21=-2, 5-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-79, 5-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 5-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T35	Roof Special	1	1	I51032278
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:09 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-TvUbNU0f67FaqyBvB2gWa1RO444QOEwaco2DWvzWNJi

4-2-4	10-2-4	16-1-14	20-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	4-0-6	1-11-10	6-0-0	6-0-0	6-4-0

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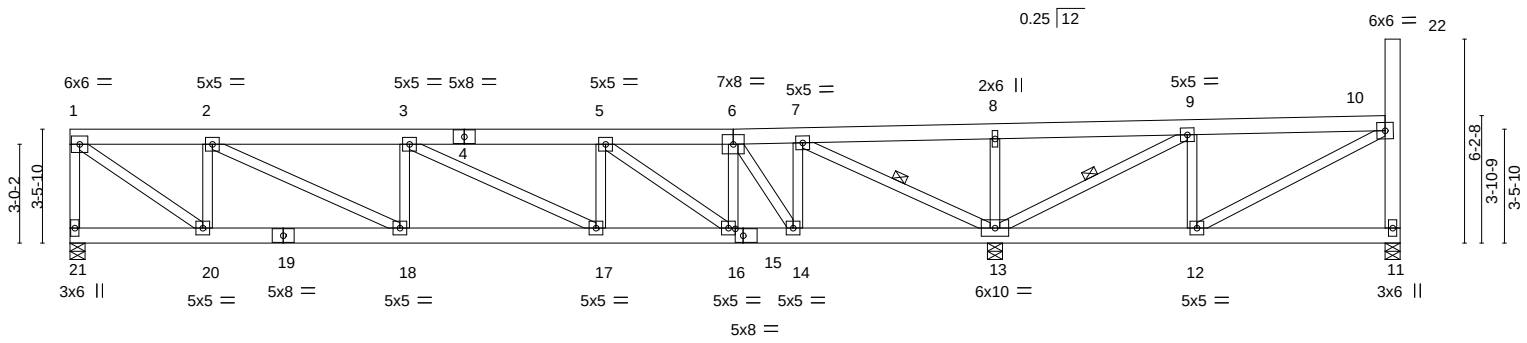

4-2-4	10-2-4	16-1-14	20-2-4	22-1-14	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	4-0-6	1-11-10	6-0-0	6-0-0	6-4-0

Plate Offsets (X,Y)-- [15:0-2-14,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.09	17-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.19	17-18	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 298 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	1 Row at midpt 7-13, 9-13

REACTIONS. (size) 21=0-5-8, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-5(LC 12)
Max Grav 21=1169(LC 21), 11=461(LC 36), 13=2541(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1129/171, 1-2=-1371/184, 2-3=-2331/309, 3-5=-2107/300, 5-6=-1257/206, 6-7=-679/142, 7-8=-302/1536, 8-9=-297/1535, 9-10=-180/295, 10-11=-391/79
BOT CHORD	18-20=-367/1371, 17-18=-457/2331, 16-17=-399/2107, 14-16=-271/1257, 13-14=-188/678, 12-13=-278/83
WEBS	1-20=-230/1688, 2-20=-904/205, 2-18=-157/1074, 3-18=-365/146, 3-17=-287/65, 5-16=-1097/160, 6-16=-86/733, 6-14=-1075/152, 7-14=-56/920, 7-13=-2478/347, 8-13=-514/158, 9-13=-1555/240, 9-12=0/273, 10-12=-375/78

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-66, 6-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-78, 6-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 6-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 6-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 6-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 6-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-79, 6-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 6-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 6-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 6-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-58, 6-9=-30, 11-21=-20
Horz: 1-21=13, 6-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 6-9=-58, 11-21=-20
Horz: 1-21=13, 6-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-63, 6-9=-36, 11-21=-20
Horz: 1-21=-3, 6-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 6-9=-63, 11-21=-20
Horz: 1-21=-3, 6-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-58, 6-9=-30, 11-21=-20
Horz: 1-21=10, 6-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30, 6-9=-58, 11-21=-20
Horz: 1-21=10, 6-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-63, 6-9=-36, 11-21=-20
Horz: 1-21=-2, 6-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 6-9=-63, 11-21=-20
Horz: 1-21=-2, 6-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-79, 6-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 6-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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Chesterfield, MO 63017

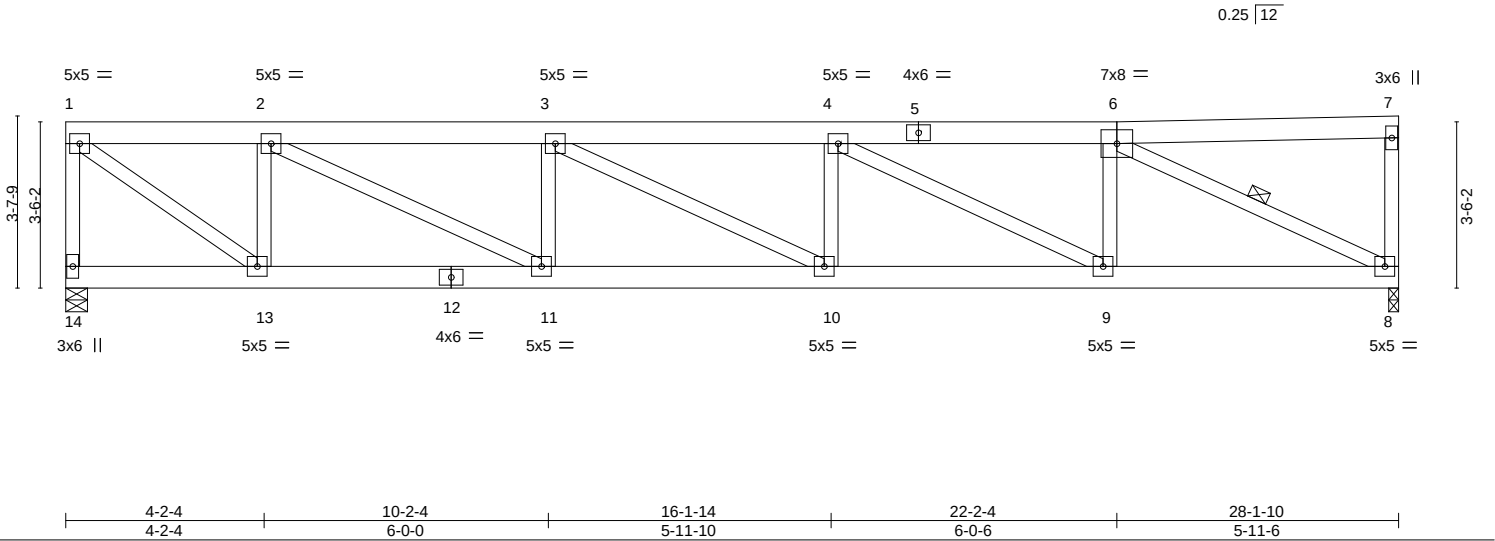
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T36	Roof Special	1	1	I51032279
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:10 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-x52zbq1HtQNRS6l5klBl7FzcWUPz7cHjqSon2LzWNJh

4-2-4	10-2-4	16-1-14	22-2-4	28-1-10
4-2-4	6-0-0	5-11-10	6-0-6	5-11-6

Scale = 1:48.6



4-2-4	10-2-4	16-1-14	22-2-4	28-1-10
4-2-4	6-0-0	5-11-10	6-0-6	5-11-6

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.11	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.24	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-9-0 oc bracing.
WEBS	1 Row at midpt 6-8

REACTIONS. (size) 14=0-5-8, 8=0-2-8
Max Horz 14=68(LC 14)
Max Grav 14=1354(LC 35), 8=1308(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1314/284, 1-2=-1597/340, 2-3=-2884/582, 3-4=-3035/617, 4-6=-2062/426
BOT CHORD	11-13=-386/1597, 10-11=-629/2884, 9-10=-653/3035, 8-9=-434/2033
WEBS	1-13=-398/1978, 2-13=-1087/309, 2-11=-299/1446, 3-11=-539/210, 4-9=-1176/244, 6-9=-29/662, 6-8=-2260/459

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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MiTek
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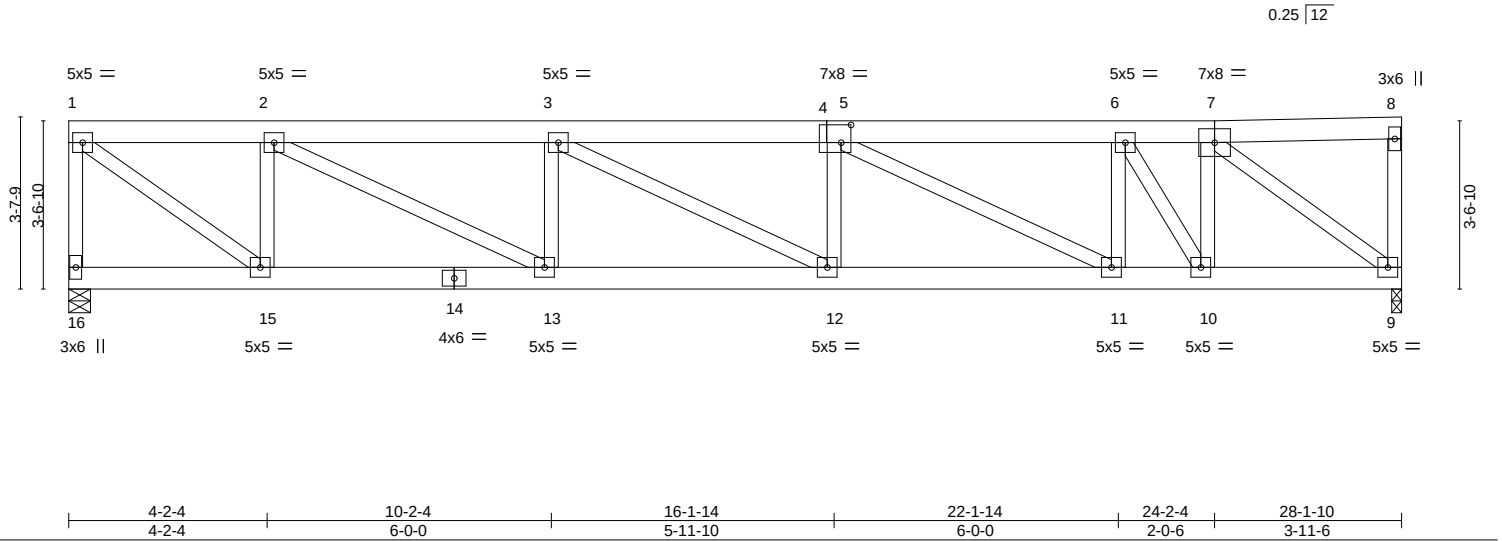
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T37	Roof Special	1	1	I51032280
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:11 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-PIcLoA2vekVI4GKHITi_fSWojulCs3gt36XKaozWNJg

4-2-4	10-2-4	16-1-14	22-1-14	24-2-4	28-1-10
4-2-4	6-0-0	5-11-10	6-0-0	2-0-6	3-11-6

Scale = 1:48.6



4-2-4	10-2-4	16-1-14	22-1-14	24-2-4	28-1-10
4-2-4	6-0-0	5-11-10	6-0-0	2-0-6	3-11-6

Plate Offsets (X,Y)-- [4:0-2-8,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.11	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.23	12-13	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-10-4 oc bracing.

REACTIONS. (size) 16=0-5-8, 9=0-2-8
Max Horz 16=68(LC 12)
Max Grav 16=1367(LC 35), 9=1319(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-16=-1327/284, 1-2=-1592/336, 2-3=-2888/576, 3-5=-3041/607, 5-6=-2045/430, 6-7=-1457/315
BOT CHORD	13-15=-381/1592, 12-13=-621/2888, 11-12=-641/3041, 10-11=-440/2045, 9-10=-308/1411
WEBS	1-15=-395/1981, 3-13=-551/209, 5-11=-1121/226, 6-11=-57/619, 6-10=-1178/239, 7-10=-163/1032, 7-9=-1796/366, 2-15=-1100/310, 2-13=-298/1459

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T38	Roof Special	1	1	I51032281
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:13 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Lgj6Dr39ALl0JZUgQukSktb4YiSPK_B9WQ0RfgzWNJe

4-2-4	10-2-4	16-1-14	22-1-14	26-2-4	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	4-0-6	1-11-10	6-0-0	6-4-0

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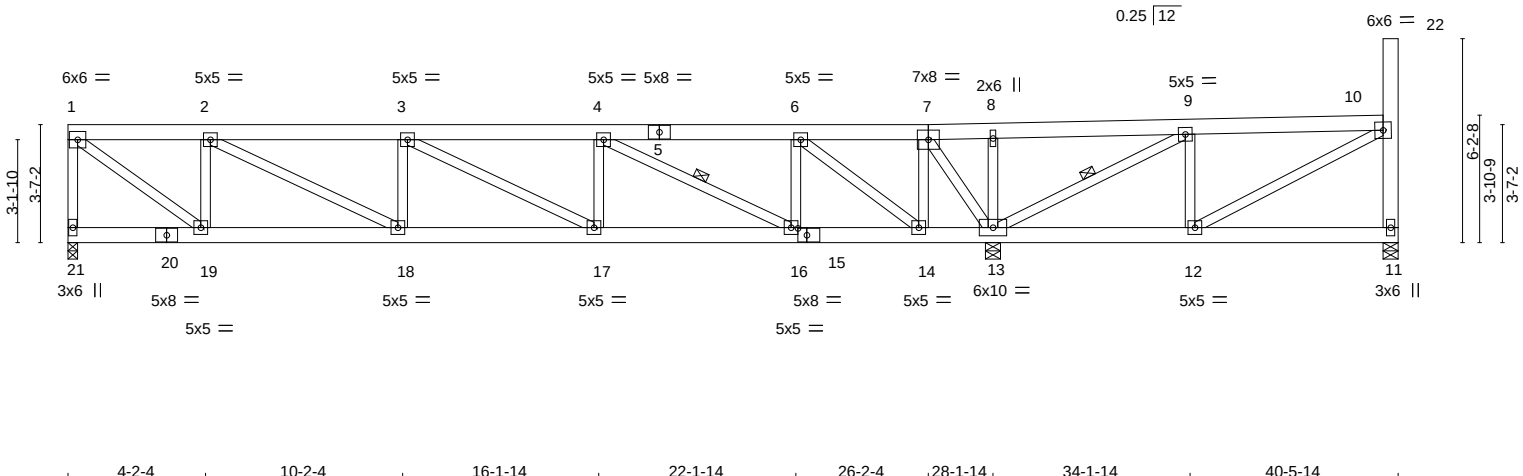

4-2-4	10-2-4	16-1-14	22-1-14	26-2-4	28-1-14	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	4-0-6	1-11-10	6-0-0	6-4-0

Plate Offsets (X,Y)-- [15:0-3-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.09	17-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.18	17-18	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 299 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
WEBS	1 Row at midpt 9-13, 4-16

REACTIONS. (size) 21=0-3-8, 11=0-5-8, 13=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-3(LC 12)
Max Grav 21=1199(LC 35), 11=508(LC 36), 13=2560(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1159/173, 1-2=-1354/181, 2-3=-2317/300, 3-4=-2148/297, 4-6=-854/154, 6-7=-186/691, 7-8=-297/1519, 8-9=-294/1520, 9-10=-213/308, 10-11=-440/81
BOT CHORD	18-19=-360/1354, 17-18=-448/2317, 16-17=-395/2148, 14-16=-204/854, 13-14=-745/187, 12-13=-299/180
WEBS	1-19=-227/1693, 2-19=-934/208, 2-18=-155/1087, 3-18=-385/145, 6-14=-1954/271, 7-14=-142/1183, 7-13=-1472/197, 8-13=-402/124, 9-13=-1574/242, 9-12=0/286, 10-12=-397/127, 6-16=-37/794, 4-16=-1460/216

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-66, 7-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-78, 7-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 7-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 7-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 7-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 7-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 7-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 7-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-67, 7-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 7-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

Continued on page 3

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-58, 7-9=-30, 11-21=-20
Horz: 1-21=13, 7-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-30, 7-9=-58, 11-21=-20
Horz: 1-21=13, 7-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-63, 7-9=-36, 11-21=-20
Horz: 1-21=-3, 7-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-36, 7-9=-63, 11-21=-20
Horz: 1-21=-3, 7-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-58, 7-9=-30, 11-21=-20
Horz: 1-21=10, 7-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-30, 7-9=-58, 11-21=-20
Horz: 1-21=10, 7-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-63, 7-9=-36, 11-21=-20
Horz: 1-21=-2, 7-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-36, 7-9=-63, 11-21=-20
Horz: 1-21=-2, 7-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 7-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 7-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T39	Roof Special	1	1	I51032282
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:15 2022 Page 1
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4-2-4	10-2-4	16-1-14	22-1-14	28-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-6	5-11-10	6-4-0

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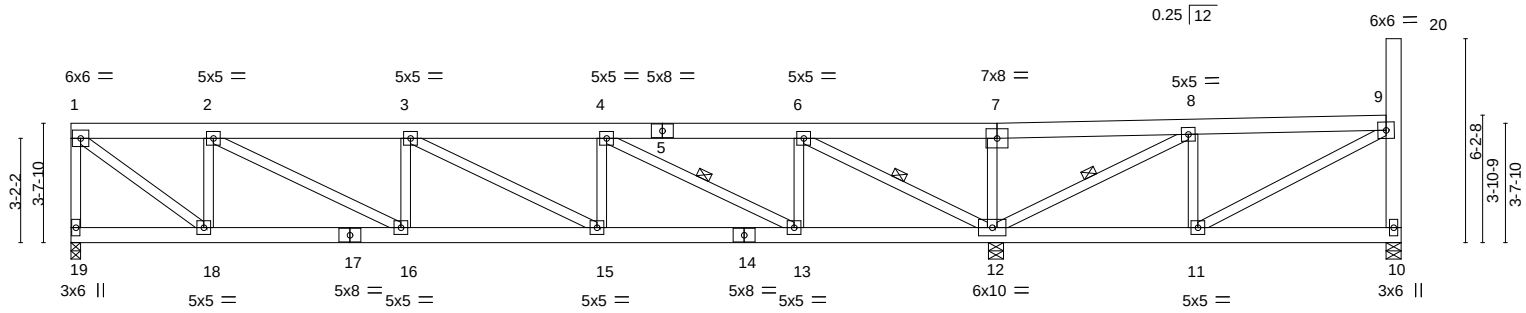

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	28-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	0-0-6	5-11-10	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.09	15-16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.19	15-16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 294 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-20: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 4-13, 6-12, 8-12

REACTIONS. (size) 19=0-3-8, 10=0-5-8, 12=0-5-8
Max Horz 19=164(LC 12)
Max Grav 19=1208(LC 35), 10=543(LC 36), 12=2524(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-1169/174, 1-2=-1348/181, 2-3=-2318/300, 3-4=-2168/299, 4-6=-910/163, 6-7=-287/1415, 7-8=-279/1402, 8-9=-272/252, 9-10=-474/87
BOT CHORD 16-18=-359/1348, 15-16=-449/2318, 13-15=-400/2168, 12-13=-215/910
WEBS 1-18=-227/1695, 2-18=-943/209, 2-16=-156/1097, 3-16=-399/147, 4-13=-1423/209, 6-13=-21/746, 6-12=-2627/368, 7-12=-383/129, 8-12=-1526/242, 9-11=-317/206

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 10-19=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-66, 7-8=-60, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-60-to-9=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-78, 7-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=13, 7-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-3, 7-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-51, 10-19=-20
Horz: 1-19=10, 7-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-57, 10-19=-20
Horz: 1-19=-2, 7-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 7-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 7-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-67, 7-8=-39, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-39, 7-8=-67, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-67-to-9=-127

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-58, 7-8=-30, 10-19=-20
Horz: 1-19=13, 7-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-30, 7-8=-58, 10-19=-20
Horz: 1-19=13, 7-9=-9, 9-10=3, 9-20=27
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-63, 7-8=-36, 10-19=-20
Horz: 1-19=-3, 7-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-36, 7-8=-63, 10-19=-20
Horz: 1-19=-3, 7-9=-3, 9-10=-13, 9-20=-27
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-58, 7-8=-30, 10-19=-20
Horz: 1-19=10, 7-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-30, 7-8=-58, 10-19=-20
Horz: 1-19=10, 7-9=-9, 9-10=2, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-63, 7-8=-36, 10-19=-20
Horz: 1-19=-2, 7-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-36, 7-8=-63, 10-19=-20
Horz: 1-19=-2, 7-9=-3, 9-10=-10, 9-20=18
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 7-8=-42, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-42, 7-8=-79, 10-19=-20
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-159

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T40	Roof Special	1	1	I51032283
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:17 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-ERzd3D6gEaFRoBoRfkpOvjmlTJpYGrPlR2_eoRzWNJa

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	30-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	2-0-6	3-11-10	6-4-0

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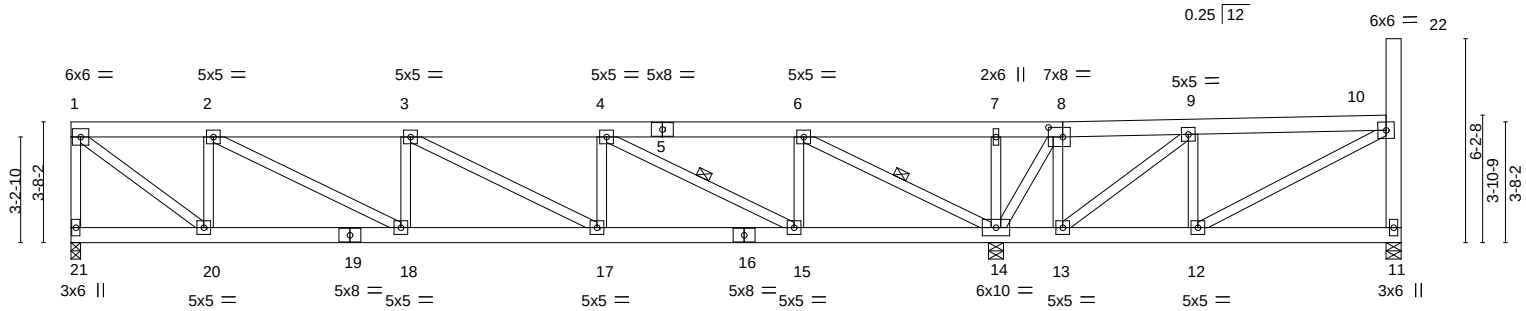

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	30-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	2-0-6	3-11-10	6-4-0

Plate Offsets (X,Y)-- [8:0-5-4,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.09	17-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.19	17-18	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.04	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 301 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
WEBS	1 Row at midpt 4-15, 6-14

REACTIONS. (size) 21=0-3-8, 11=0-5-8, 14=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-3(LC 12)
Max Grav 21=1201(LC 35), 11=501(LC 36), 14=2591(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1162/173, 1-2=-1322/179, 2-3=-2265/292, 3-4=-2107/290, 4-6=-834/149, 6-7=-287/1469, 7-8=-287/1469, 8-9=-253/1122, 9-10=-205/290, 10-11=-438/84
BOT CHORD	18-20=-354/1322, 17-18=-441/2265, 15-17=-391/2107, 14-15=-202/834, 13-14=-1091/207, 12-13=-276/169
WEBS	1-20=-223/1670, 2-20=-936/208, 2-18=-152/1070, 3-18=-391/146, 4-15=-1444/214, 6-15=-21/761, 6-14=-2580/355, 7-14=-481/129, 8-14=-798/132, 8-13=-92/695, 9-13=-1216/184, 9-12=0/300, 10-12=-368/115

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-66, 8-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-78, 8-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-79, 8-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 8-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-67, 8-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 8-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-58, 8-9=-30, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-30, 8-9=-58, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-63, 8-9=-36, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 8-9=-63, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-58, 8-9=-30, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-30, 8-9=-58, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-63, 8-9=-36, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 8-9=-63, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-79, 8-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 8-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T41	Roof Special	1	1	I51032284
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:18 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-ieX?GZ7I_uNIPKNeCRKdRxIw7j9r?IgvgikCKuzWNJZ

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	32-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	4-0-6	1-11-10	6-4-0

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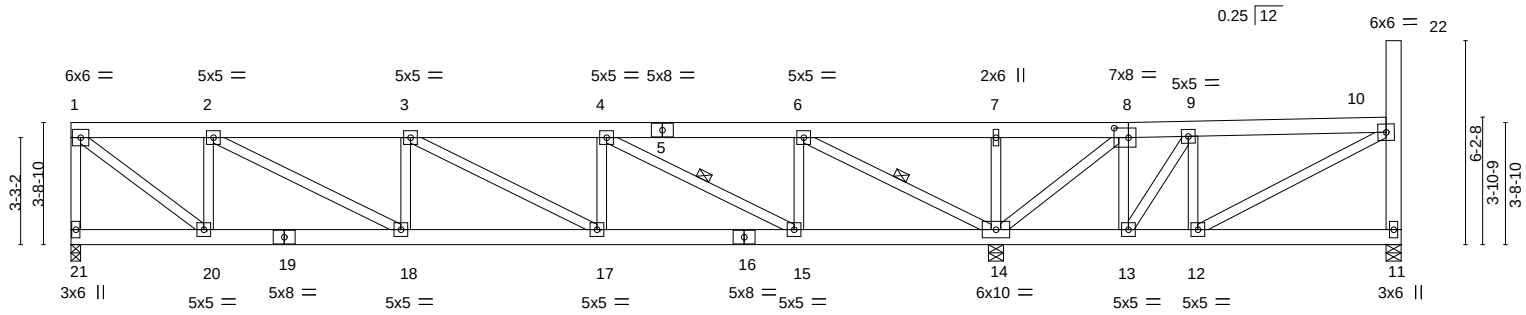

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	32-2-4	34-1-14	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	4-0-6	1-11-10	6-4-0

Plate Offsets (X,Y)-- [8:0-5-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	17-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.18	17-18	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.03	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 301 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-22: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
WEBS	1 Row at midpt 4-15, 6-14

REACTIONS. (size) 21=0-3-8, 11=0-5-8, 14=0-5-8
Max Horz 21=164(LC 12)
Max Uplift 11=-2(LC 12)
Max Grav 21=1199(LC 35), 11=486(LC 36), 14=2605(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1160/173, 1-2=-1303/177, 2-3=-2231/288, 3-4=-2071/286, 4-6=-812/148, 6-7=-283/1460, 7-8=-283/1460, 8-9=-216/684, 9-10=-186/268, 10-11=-422/84
BOT CHORD	18-20=-351/1303, 17-18=-437/2231, 15-17=-387/2071, 14-15=-200/812, 13-14=-652/137
WEBS	1-20=-222/1655, 2-20=-934/208, 2-18=-151/1056, 3-18=-389/146, 4-15=-1433/213, 6-15=-22/768, 6-14=-2563/352, 7-14=-490/141, 8-14=-1135/180, 8-13=-97/728, 9-13=-911/137, 9-12=0/292, 10-12=-334/86

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-66, 8-9=-60, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-60-to-10=-120

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-78, 8-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-51, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-51-to-10=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-9=-57, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-57-to-10=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-70, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-70-to-10=-150

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-79, 8-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 8-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-67, 8-9=-39, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-39-to-10=-99

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 8-9=-67, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-67-to-10=-127

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LOAD CASE(S) Standard

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-58, 8-9=-30, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-30, 8-9=-58, 11-21=-20
Horz: 1-21=13, 8-10=-9, 10-11=3, 10-22=27
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-63, 8-9=-36, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 8-9=-63, 11-21=-20
Horz: 1-21=-3, 8-10=-3, 10-11=-13, 10-22=-27
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-58, 8-9=-30, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-30-to-10=-90

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-30, 8-9=-58, 11-21=-20
Horz: 1-21=10, 8-10=-9, 10-11=2, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-58-to-10=-118

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-63, 8-9=-36, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-36-to-10=-96

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-36, 8-9=-63, 11-21=-20
Horz: 1-21=-2, 8-10=-3, 10-11=-10, 10-22=18
Trapezoidal Loads (plf)
Vert: 9=-63-to-10=-123

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-79, 8-9=-42, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-42-to-10=-122

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-42, 8-9=-79, 11-21=-20
Trapezoidal Loads (plf)
Vert: 9=-79-to-10=-159

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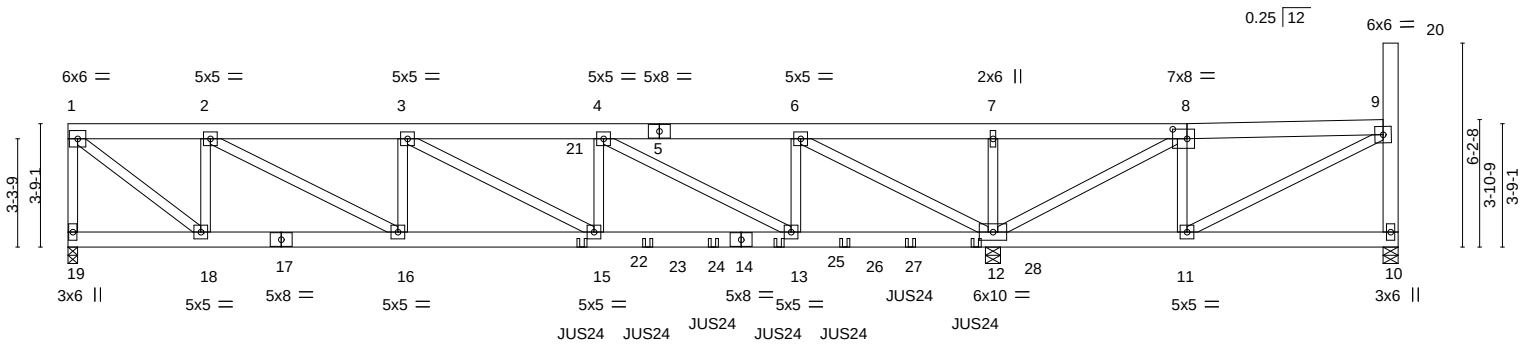
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T42	ROOF SPECIAL GIRDER	1	2	I51032285
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:21 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-6DC7uaAAHpltGo5CuZuK3ZwS4w9WCacLMgysxDzWNJW

4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	34-0-12	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	5-10-14	6-5-2

Scale = 1:70.1



4-2-4	10-2-4	16-1-14	22-1-14	28-1-14	34-0-12	34-2-4	40-5-14
4-2-4	6-0-0	5-11-10	6-0-0	6-0-0	5-10-14	0-1-8	6-3-10

Plate Offsets (X,Y)-- [8:0-5-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.12	13-15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.17	13-15	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 590 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-20: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.

REACTIONS. (size) 19=0-3-8, 10=0-5-8, 12=0-5-8
Max Horz 19=164(LC 12)
Max Uplift 19=-234(LC 11), 10=-274(LC 58), 12=-1488(LC 11)
Max Grav 19=1614(LC 35), 10=372(LC 46), 12=4961(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-1575/450, 1-2=-1800/516, 2-3=-3450/1115, 3-4=-4129/1637, 4-6=-2442/1105, 6-7=-1030/2511, 7-8=-1030/2511, 8-9=-646/1058, 9-10=-325/370
BOT CHORD 16-18=-689/1800, 15-16=-1262/3450, 13-15=-1735/4104, 12-13=-1155/2403, 11-12=-992/535
WEBS 1-18=-657/2300, 2-18=-1344/477, 2-16=-709/1883, 3-16=-812/438, 3-15=-717/959, 4-15=-175/422, 4-13=-2039/662, 6-13=-986/1959, 6-12=-5565/2295, 7-12=-812/188, 8-12=-1946/558, 8-11=-145/586, 9-11=-1204/611

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 35-3-2, Corner(3) 35-3-2 to 40-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=234, 10=274, 12=1488.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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NOTES-

11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 67, 68, 69, 70, 77, 78, 79, 80, 81, 82, 83, 84 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 15-7-12 from the left end to 27-7-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-70, 7-21=-150, 7-8=-70, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
   Trapezoidal Loads (plf)
   Vert: 8=-70-to-9=-152
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-60, 7-21=-120, 7-8=-60, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B)
   Trapezoidal Loads (plf)
   Vert: 8=-60-to-9=-121
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-66, 7-21=-126, 7-8=-66, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B)
   Trapezoidal Loads (plf)
   Vert: 8=-60-to-9=-121
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-39, 7-21=-99, 7-8=-39, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B)
   Trapezoidal Loads (plf)
   Vert: 8=-39-to-9=-100
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-78, 7-21=-158, 7-8=-78, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
   Trapezoidal Loads (plf)
   Vert: 8=-70-to-9=-152
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-21=-42, 7-21=-122, 7-8=-42, 10-19=-20
   Concentrated Loads (lb)
   Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
   Trapezoidal Loads (plf)
   Vert: 8=-42-to-9=-124
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-21=-51, 7-21=-111, 7-8=-51, 10-19=-20
   Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
   Concentrated Loads (lb)
   Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
   Trapezoidal Loads (plf)
   Vert: 8=-51-to-9=-112
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-21=-57, 7-21=-117, 7-8=-57, 10-19=-20
   Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
   Concentrated Loads (lb)
   Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
   Trapezoidal Loads (plf)
   Vert: 8=-57-to-9=-118
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-21=-51, 7-21=-111, 7-8=-51, 10-19=-20
   Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
   Concentrated Loads (lb)
   Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
   Trapezoidal Loads (plf)
   Vert: 8=-51-to-9=-112
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-21=-57, 7-21=-117, 7-8=-57, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-118

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-70, 7-21=-150, 7-8=-70, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
Trapezoidal Loads (plf)
Vert: 8=-70-to-9=-152

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-79, 7-21=-159, 7-8=-79, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-124

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-42, 7-21=-122, 7-8=-42, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-160

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-67, 7-21=-127, 7-8=-67, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B)
Trapezoidal Loads (plf)
Vert: 8=-39-to-9=-100

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-39, 7-21=-99, 7-8=-39, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-161(B) 23=-161(B) 24=-161(B) 25=-161(B) 26=-161(B) 27=-161(B) 28=-161(B)
Trapezoidal Loads (plf)
Vert: 8=-67-to-9=-128

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-58, 7-21=-118, 7-8=-58, 10-19=-20
Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-91

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-30, 7-21=-90, 7-8=-30, 10-19=-20
Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-119

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-63, 7-21=-123, 7-8=-63, 10-19=-20
Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-97

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-36, 7-21=-96, 7-8=-36, 10-19=-20
Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-125

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-58, 7-21=-118, 7-8=-58, 10-19=-20
Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-91

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-30, 7-21=-90, 7-8=-30, 10-19=-20
Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-119

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-63, 7-21=-123, 7-8=-63, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-97

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-36, 7-21=-96, 7-8=-36, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=92(B) 23=92(B) 24=92(B) 25=92(B) 26=92(B) 27=92(B) 28=92(B)
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-125

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-79, 7-21=-159, 7-8=-79, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
Trapezoidal Loads (plf)
Vert: 8=-42-to-9=-124

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-42, 7-21=-122, 7-8=-42, 10-19=-20
Concentrated Loads (lb)
Vert: 22=-201(B) 23=-201(B) 24=-201(B) 25=-201(B) 26=-201(B) 27=-201(B) 28=-201(B)
Trapezoidal Loads (plf)
Vert: 8=-79-to-9=-160

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-51, 7-21=-111, 7-8=-51, 10-19=-20
Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-112

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-57, 7-21=-117, 7-8=-57, 10-19=-20
Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-118

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-51, 7-21=-111, 7-8=-51, 10-19=-20
Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-51-to-9=-112

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-21=-57, 7-21=-117, 7-8=-57, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-57-to-9=-118

77) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-58, 7-21=-118, 7-8=-58, 10-19=-20
Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-91

78) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-30, 7-21=-90, 7-8=-30, 10-19=-20
Horz: 1-19=13, 8-9=-9, 9-10=3, 9-20=27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-119

79) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-63, 7-21=-123, 7-8=-63, 10-19=-20
Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-97

80) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-36, 7-21=-96, 7-8=-36, 10-19=-20
Horz: 1-19=-3, 8-9=-3, 9-10=-13, 9-20=-27
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-125

81) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-58, 7-21=-118, 7-8=-58, 10-19=-20
Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-30-to-9=-91

82) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-30, 7-21=-90, 7-8=-30, 10-19=-20
Horz: 1-19=10, 8-9=-9, 9-10=2, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-58-to-9=-119

83) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-63, 7-21=-123, 7-8=-63, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-36-to-9=-97

84) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-21=-36, 7-21=-96, 7-8=-36, 10-19=-20
Horz: 1-19=-2, 8-9=-3, 9-10=-10, 9-20=18
Concentrated Loads (lb)
Vert: 22=-294(B) 23=-294(B) 24=-294(B) 25=-294(B) 26=-294(B) 27=-294(B) 28=-294(B)
Trapezoidal Loads (plf)
Vert: 8=-63-to-9=-125

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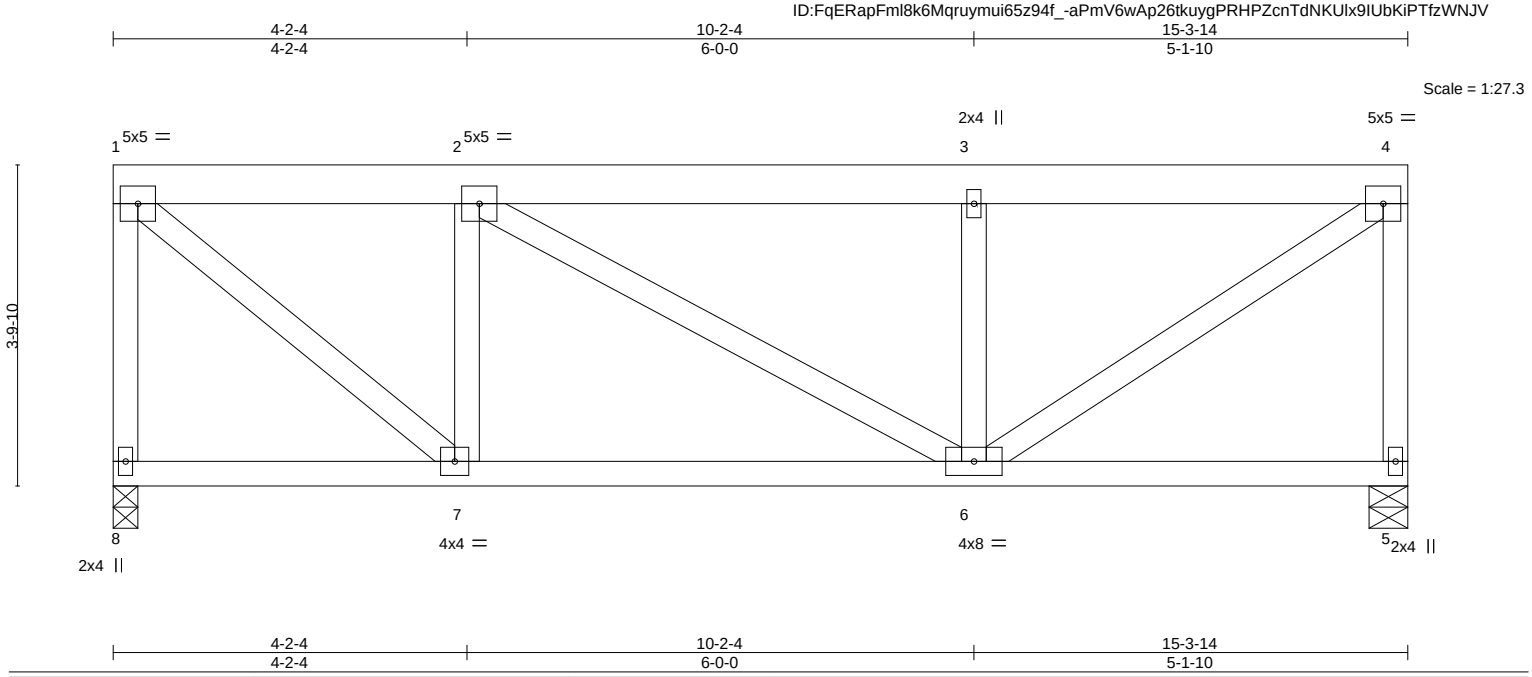
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T43	Flat	1	1	I51032286
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:22 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-aPmV6wAp26tkuygPRHPZcnTdNKUlx9IUbKiPTfzWNJV



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.05	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 102 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-5-8
Max Horz 8=-73(LC 11)
Max Grav 8=1278(LC 1), 5=1278(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1248/272, 1-2=-1215/253, 2-3=-1381/279, 3-4=-1381/279, 4-5=-1238/277
BOT CHORD 6-7=-305/1215
WEBS 1-7=-324/1593, 2-7=-921/276, 3-6=-921/271, 4-6=-342/1675

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20

March 28,2022

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LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 4-5=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-3, 4-5=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 4-5=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-2, 4-5=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T44	Flat	1	1	I51032287
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:23 2022 Page 1
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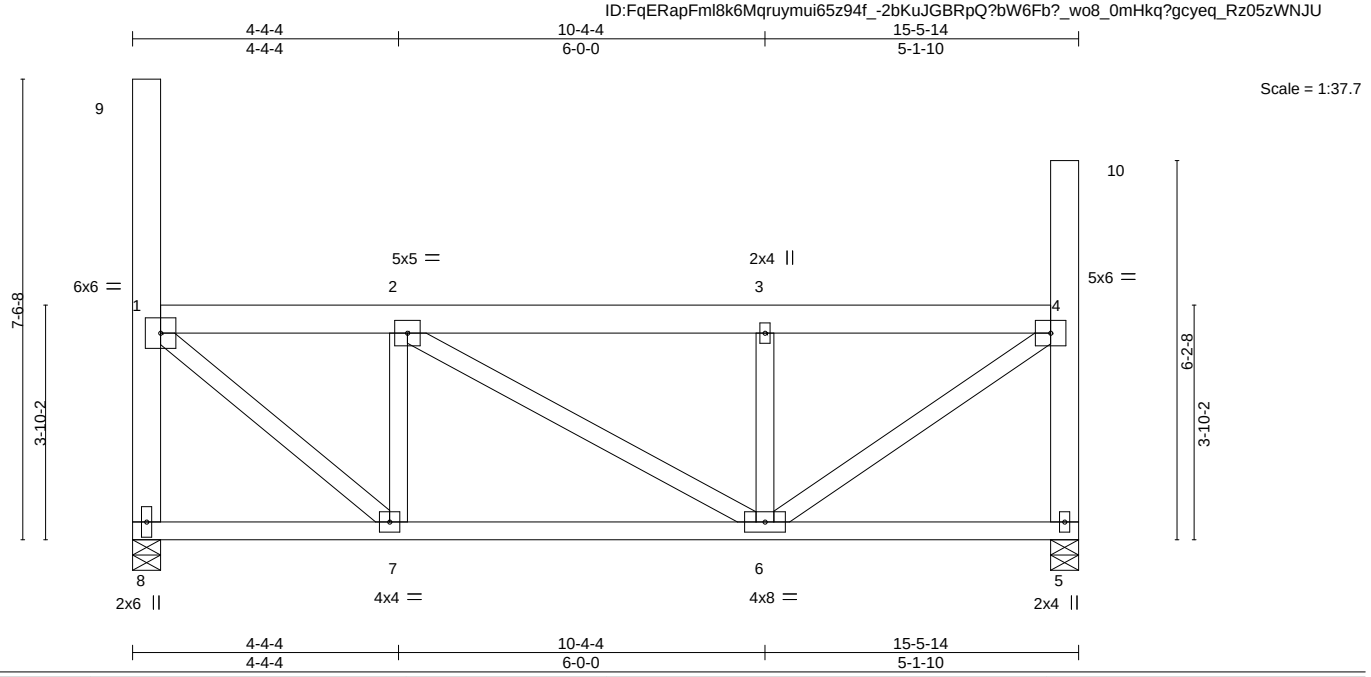

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 122 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9,5-10: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=-276(LC 13)
Max Uplift 8=-49(LC 11), 5=-41(LC 12)
Max Grav 8=1278(LC 1), 5=1278(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1247/411, 1-2=-1213/377, 2-3=-1341/229, 3-4=-1341/229, 4-5=-1239/396
BOT CHORD 7-8=-513/589, 6-7=-618/1213
WEBS 1-7=-404/1536, 2-7=-878/326, 2-6=-359/264, 3-6=-860/281, 4-6=-477/1572

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-9=27, 4-5=3, 4-10=18

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 4-5=-13, 4-10=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-9=-18, 4-5=2, 4-10=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 4-5=-10, 4-10=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T45	Flat	1	1	I51032288
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:24 2022 Page 1
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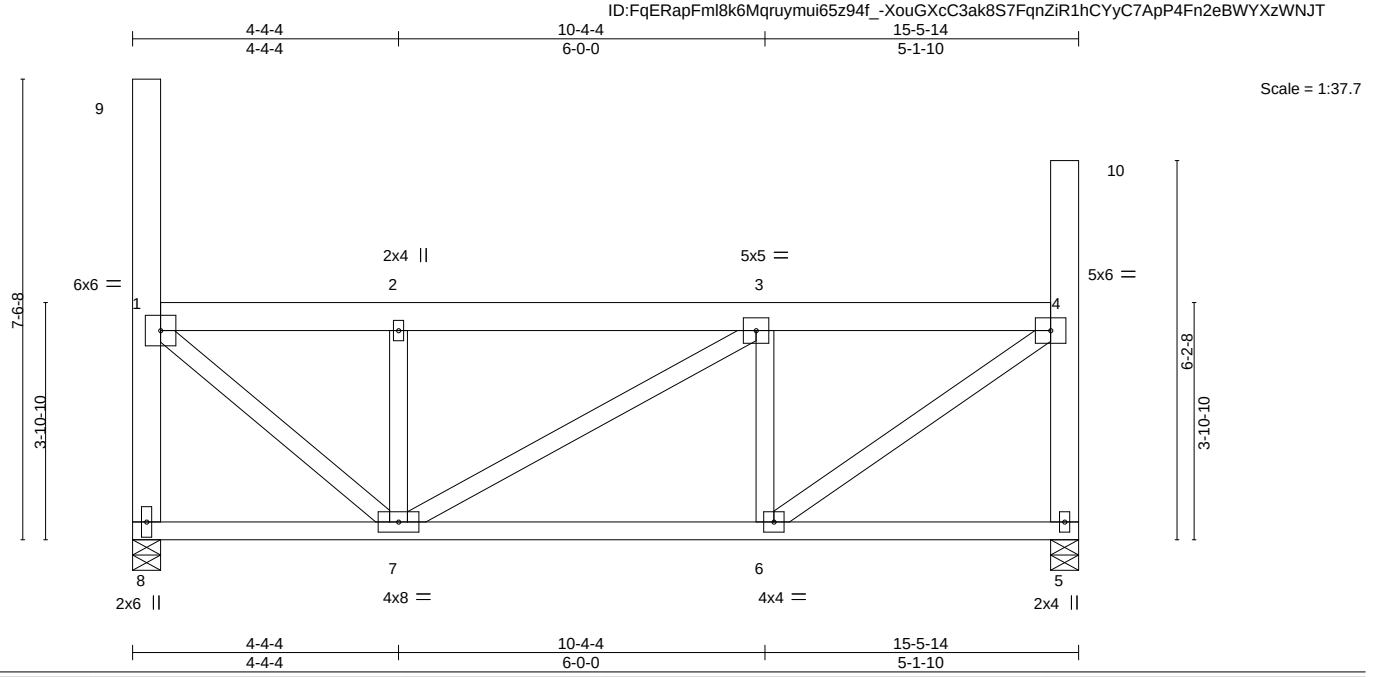

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.08	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 122 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9,5-10: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=-274(LC 11)
Max Uplift 8=-48(LC 11), 5=-41(LC 12)
Max Grav 8=1278(LC 1), 5=1278(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1247/410, 1-2=-1199/374, 2-3=-1199/374, 3-4=-1325/229, 4-5=-1239/395
BOT CHORD 7-8=-508/583, 6-7=-386/1325
WEBS 1-7=-399/1526, 2-7=-804/291, 3-7=-263/360, 3-6=-787/348, 4-6=-471/1561

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-9=27, 4-5=3, 4-10=18

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 4-5=-13, 4-10=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-9=-18, 4-5=2, 4-10=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 4-5=-10, 4-10=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T46	Flat	1	1	I51032289
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:25 2022 Page 1
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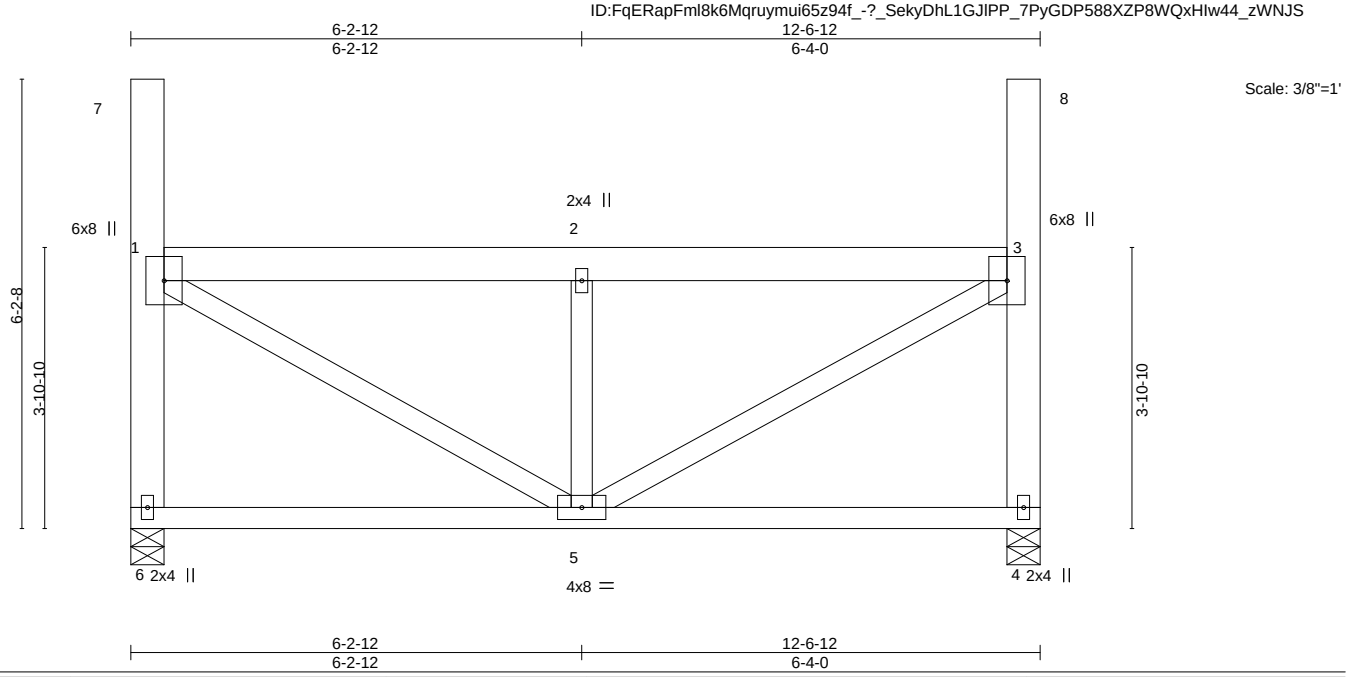

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 97 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-6 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-226(LC 11)
Max Uplift 6=-46(LC 11), 4=-46(LC 12)
Max Grav 6=1029(LC 1), 4=1029(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-982/390, 1-2=-1042/165, 2-3=-1042/165, 3-4=-981/391
BOT CHORD 5-6=-468/450
WEBS 1-5=-469/1105, 2-5=-957/301, 3-5=-475/1095

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-90, 4-6=-20

March 28,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-90, 4-6=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-110, 4-6=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-110, 4-6=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 3-4=3, 3-8=18

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 3-4=-13, 3-8=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 3-4=2, 3-8=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 3-4=-10, 3-8=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T47	Roof Special	1	1	I51032290
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:26 2022 Page 1
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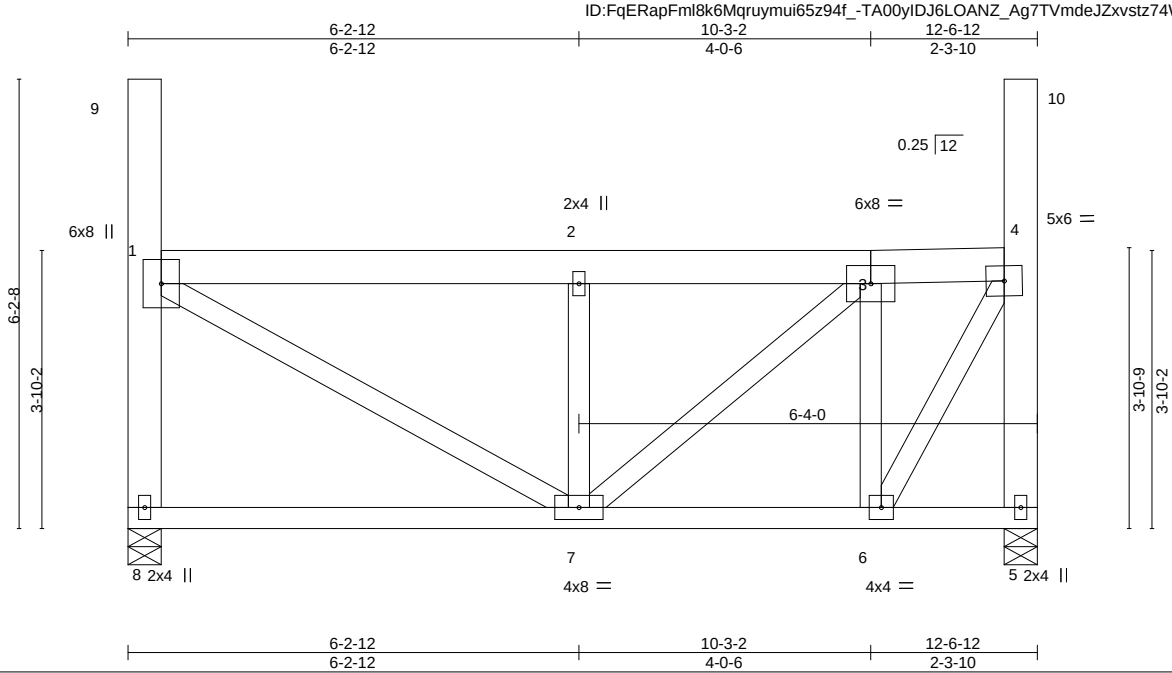

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	7-8	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 105 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9,5-10: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=227(LC 12)
Max Uplift 8=-46(LC 11), 5=-2(LC 12)
Max Grav 8=1076(LC 35), 5=1050(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1025/392, 1-2=-1060/169, 2-3=-1060/169, 3-4=-526/221, 4-5=-1032/375
BOT CHORD 7-8=-474/447, 6-7=-145/524
WEBS 1-7=-454/1104, 2-7=-896/293, 3-7=-372/713, 3-6=-793/268, 4-6=-277/980

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-124, 3-4=-120, 5-8=-20

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Continued on page 2

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LOAD CASE(S) Standard

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-99, 5-8=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-155, 3-4=-150, 5-8=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-122, 5-8=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-9=27, 3-4=-9, 4-5=3, 4-10=18

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 3-4=-3, 4-5=-13, 4-10=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-9=-18, 3-4=-9, 4-5=2, 4-10=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 3-4=-3, 4-5=-10, 4-10=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-159, 3-4=-122, 5-8=-20

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 3-4=-159, 5-8=-20

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-127, 3-4=-99, 5-8=-20

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 3-4=-127, 5-8=-20

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-118, 3-4=-90, 5-8=-20
Horz: 1-8=13, 1-9=27, 3-4=-9, 4-5=3, 4-10=18

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-118, 5-8=-20
Horz: 1-8=13, 1-9=27, 3-4=-9, 4-5=3, 4-10=18

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-123, 3-4=-96, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 3-4=-3, 4-5=-13, 4-10=-27

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-96, 3-4=-123, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 3-4=-3, 4-5=-13, 4-10=-27

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-118, 3-4=-90, 5-8=-20
Horz: 1-8=10, 1-9=-18, 3-4=-9, 4-5=2, 4-10=18

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-118, 5-8=-20
Horz: 1-8=10, 1-9=-18, 3-4=-9, 4-5=2, 4-10=18

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-123, 3-4=-96, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 3-4=-3, 4-5=-10, 4-10=18

Continued on page 3

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LOAD CASE(S) Standard

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-96, 3-4=-123, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 3-4=-3, 4-5=-10, 4-10=18

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-159, 3-4=-122, 5-8=-20

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 3-4=-159, 5-8=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T48	Roof Special	1	1	I51032291
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:27 2022 Page 1
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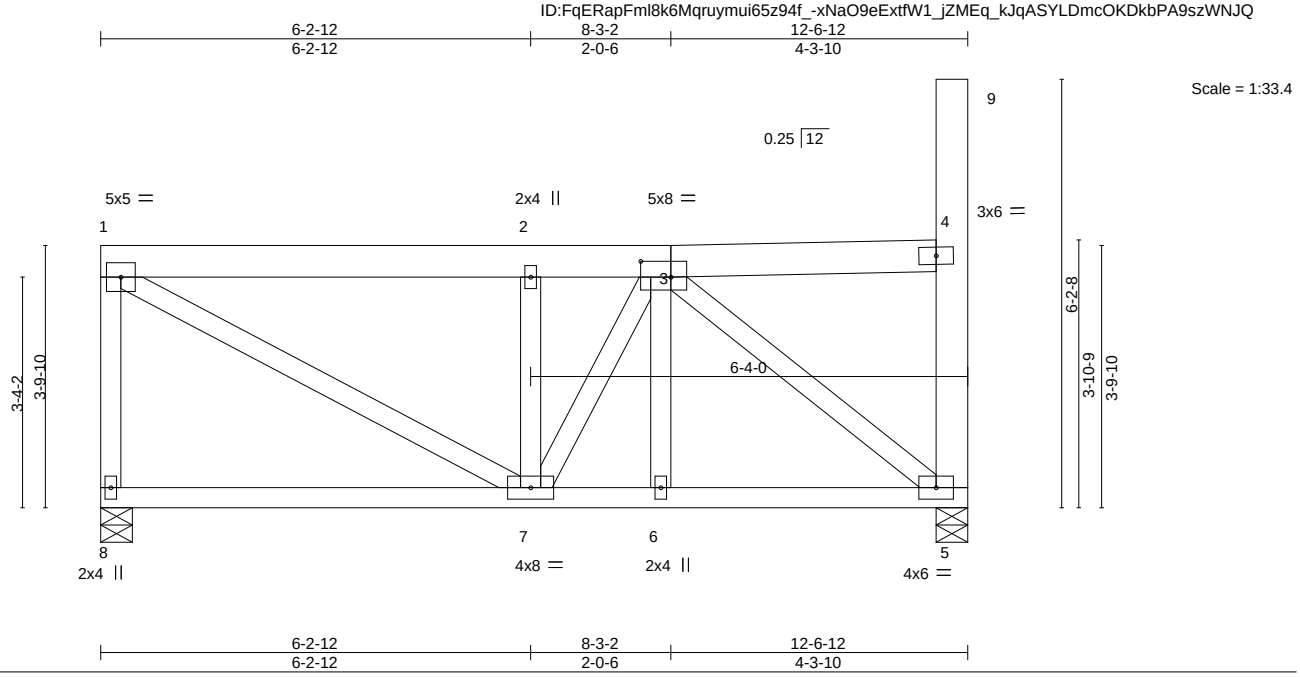

Plate Offsets (X,Y)-- [3:0-5-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.03	7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07	7-8	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 97 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=166(LC 12)
Max Uplift 8=-21(LC 11)
Max Grav 8=1065(LC 35), 5=1050(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1013/312, 1-2=-1096/311, 2-3=-1096/311, 3-4=-257/199, 4-5=-371/145
BOT CHORD 7-8=-307/227, 6-7=-237/841, 5-6=-239/839
WEBS 1-7=-388/1258, 2-7=-961/298, 3-7=-231/535, 3-5=-1026/307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-124, 3-4=-120, 5-8=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-99, 5-8=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-155, 3-4=-150, 5-8=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-122, 5-8=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 3-4=-9, 4-5=3, 4-9=27

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-3, 3-4=-3, 4-5=-13, 4-9=-27

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 3-4=-9, 4-5=2, 4-9=18

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-2, 3-4=-3, 4-5=-10, 4-9=18

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-159, 3-4=-122, 5-8=-20

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 3-4=-159, 5-8=-20

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-127, 3-4=-99, 5-8=-20

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 3-4=-127, 5-8=-20

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-118, 3-4=-90, 5-8=-20
Horz: 1-8=13, 3-4=-9, 4-5=3, 4-9=27

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-118, 5-8=-20
Horz: 1-8=13, 3-4=-9, 4-5=3, 4-9=27

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-123, 3-4=-96, 5-8=-20
Horz: 1-8=-3, 3-4=-3, 4-5=-13, 4-9=-27

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-96, 3-4=-123, 5-8=-20
Horz: 1-8=-3, 3-4=-3, 4-5=-13, 4-9=-27

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-118, 3-4=-90, 5-8=-20
Horz: 1-8=10, 3-4=-9, 4-5=2, 4-9=18

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-118, 5-8=-20
Horz: 1-8=10, 3-4=-9, 4-5=2, 4-9=18

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-123, 3-4=-96, 5-8=-20
Horz: 1-8=-2, 3-4=-3, 4-5=-10, 4-9=18

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-96, 3-4=-123, 5-8=-20
Horz: 1-8=-2, 3-4=-3, 4-5=-10, 4-9=18

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-159, 3-4=-122, 5-8=-20

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-122, 3-4=-159, 5-8=-20

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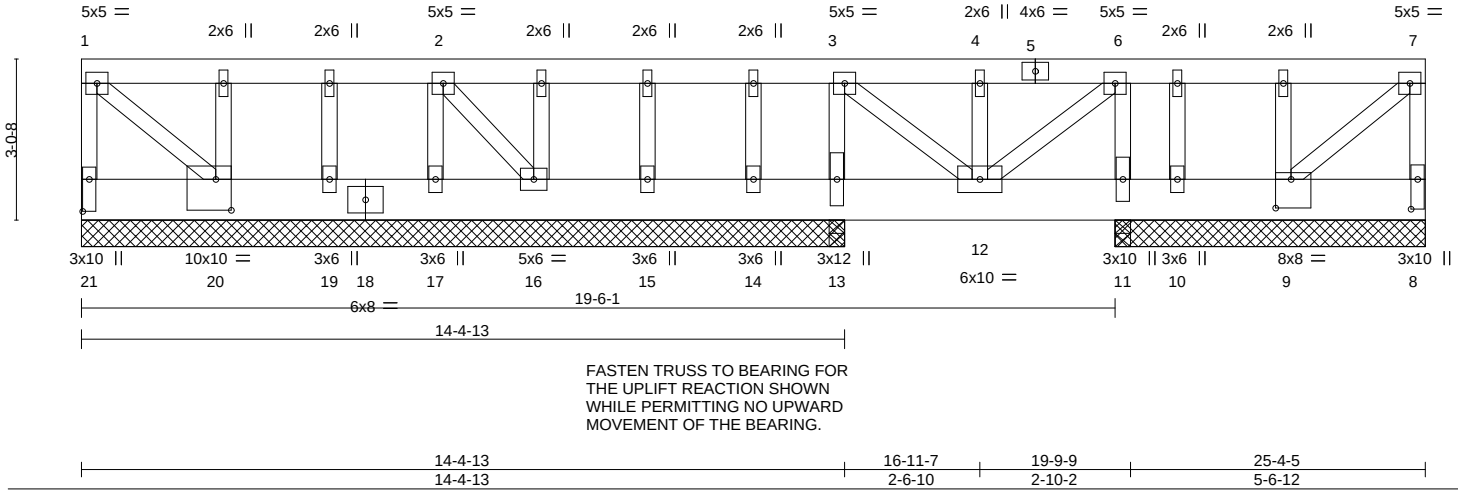
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T49	GABLE	1	1	I51032292
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:29 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-tlh9aJGCPGmkE1ilMF1COFGoG8zl4IDWCvuHDlzWNJO

16-11-7 / 16-11-7 | 25-4-5 / 8-4-14

Scale = 1:43.5



14-4-13 / 14-4-13 | 16-11-7 / 2-6-10 | 19-9-9 / 2-10-2 | 25-4-5 / 5-6-12

Plate Offsets (X,Y)-- [8:0-6-12,0-1-8], [9:0-3-8,0-6-8], [20:0-3-8,0-7-0], [21:0-7-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.00	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	12	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	-0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 215 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-4-13 except (jt=length) 8=5-10-4, 10=5-10-4, 9=5-10-4, 11=5-10-4, 11=5-10-4.
(lb) - Max Horz 21=-141(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 16 except 21=-1586(LC 39), 8=-991(LC 42), 14=-489(LC 63), 20=-1539(LC 62), 10=-749(LC 63), 9=-953(LC 39), 13=-1053(LC 39), 11=-1095(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 17, 19, 10 except 21=1691(LC 60), 8=1019(LC 59), 16=565(LC 1), 20=1606(LC 39), 9=1118(LC 46), 13=2787(LC 64), 13=2068(LC 1), 11=2996(LC 63), 11=2156(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-21=-1659/1648, 1-2=-1590/1594, 2-3=-1402/1436, 3-4=-714/504, 4-6=-1254/1044, 6-7=-949/974, 7-8=-1002/1015
BOT CHORD	20-21=-732/737, 19-20=-940/887, 17-19=-403/404, 16-17=-776/730, 15-16=-1308/1250, 14-15=-1808/1774, 13-14=-2203/2169, 12-13=-2203/2169, 11-12=-484/449, 10-11=-484/449, 9-10=-430/395, 8-9=-598/610
WEBS	3-13=-1702/1465, 6-11=-1520/1293, 3-12=-1854/2133, 6-12=-1653/1933, 1-20=-2173/2186, 7-9=-1436/1403, 2-16=-674/336

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 21=1586, 8=991, 14=489, 20=1539, 10=749, 9=953, 13=1053, 11=1095.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-4-13, 19-6-0 to 25-4-5 for 250.3 plf.

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Continued on page 2

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NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 13-21=-20, 11-13=-420(F=-400), 8-11=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T49A	GABLE	1	1	I51032293
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:31 2022 Page 1
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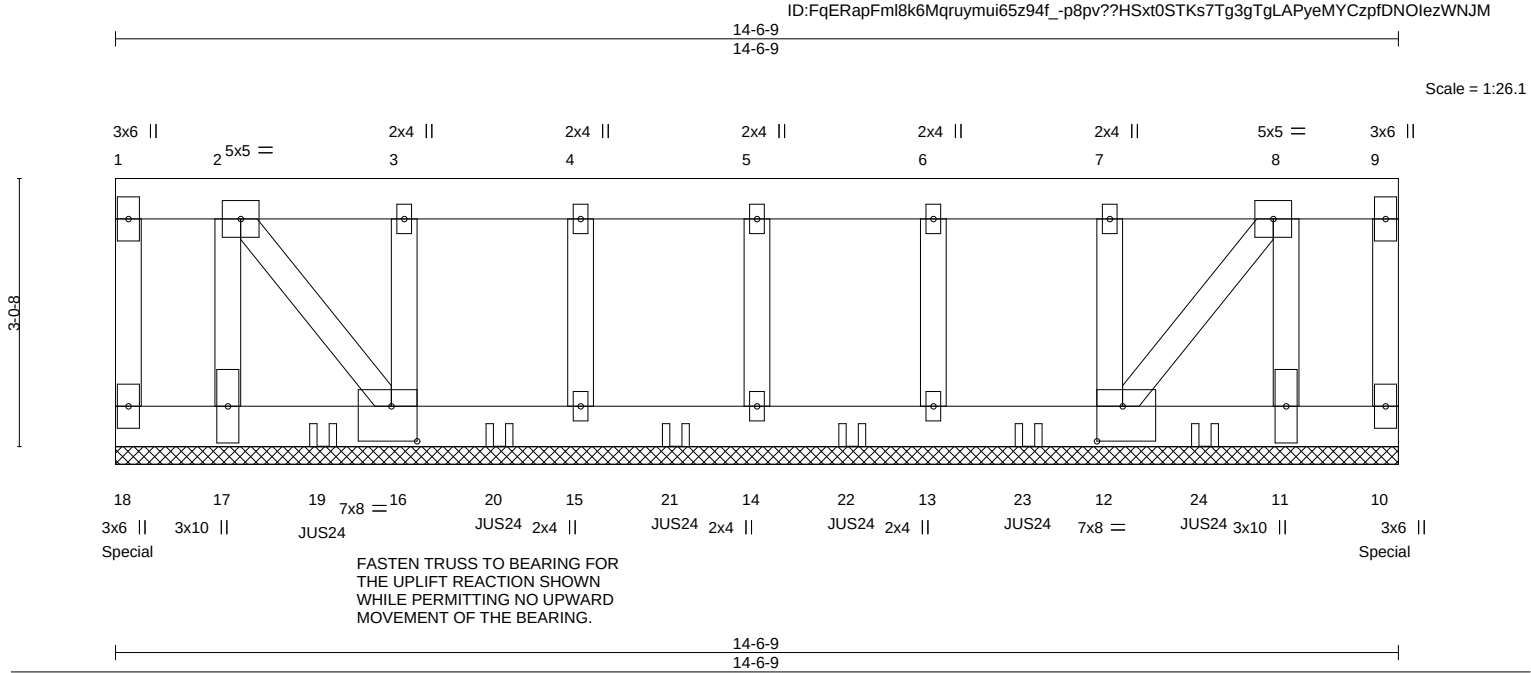

Plate Offsets (X,Y)-- [12:0-3-8,0-4-12], [16:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 104 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-6-9.
(lb) - Max Horz 18=55(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 10 except 16=-1511(LC 42), 17=-1482(LC 39), 12=-1505(LC 39), 11=-1459(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 18=654(LC 32), 10=648(LC 31), 14=843(LC 1), 15=819(LC 1), 16=2134(LC 59), 17=1800(LC 60), 13=821(LC 1), 12=2130(LC 60), 11=1833(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-256/263, 2-3=-1213/1218, 3-4=-813/818, 4-5=-413/418, 5-6=-413/418, 6-7=-813/818, 7-8=-1213/1218, 8-9=-247/253
BOT CHORD	17-18=-303/311, 16-17=-703/711, 15-16=-838/837, 14-15=-438/437, 13-14=-438/437, 12-13=-838/837, 11-12=-647/653, 10-11=-247/253
WEBS	3-16=-255/264, 2-17=-1597/1584, 7-12=-259/271, 8-11=-1630/1637, 2-16=-2407/2410, 8-12=-2355/2349

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10 except (jt=lb) 16=1511, 17=1482, 12=1505, 11=1459.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-6-9 for 200.0 plf.

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Continued on page 2

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-4 from the left end to 12-4-4 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 663 lb down at 0-1-12, and 665 lb down at 14-4-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-663(B) 10=-665(B) 19=-655(B) 20=-655(B) 21=-655(B) 22=-655(B) 23=-655(B) 24=-655(B)

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Chesterfield, MO 63017

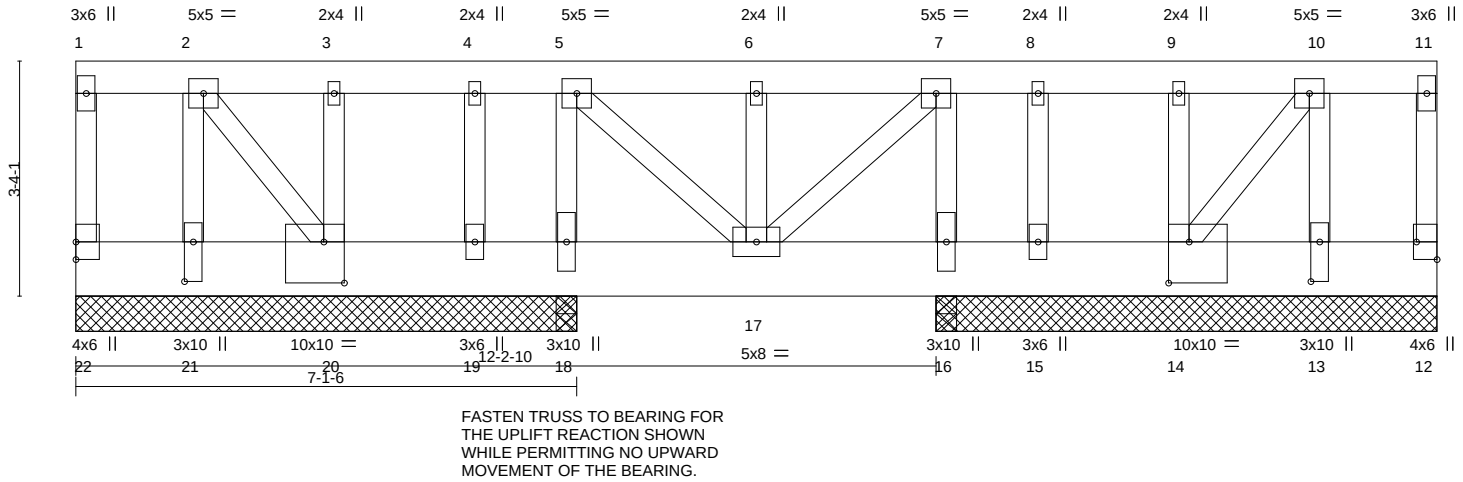
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T50	GABLE	1	1	I51032294
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:35 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-iv3QrNKy_6WuyyAviV8cdWWuIZ0SU1fParLbRPzWNJI

6-11-10 | 9-8-0 | 12-4-6 | 19-4-0
6-11-10 | 2-8-6 | 2-8-6 | 6-11-10

Scale = 1:32.7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

6-11-10 | 7-1-6 | 9-8-0 | 12-2-10 | 12-4-6 | 19-4-0
6-11-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 6-11-10

Plate Offsets (X,Y)-- [12:Edge,0-3-8], [13:0-6-12,0-1-8], [14:0-3-8,0-7-0], [20:0-3-8,0-7-0], [21:0-6-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	17	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.00	16	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 173 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 22=-158(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 22, 12 except 18=-867(LC 39), 19=-575(LC 63), 20=-1100(LC 42), 21=-1034(LC 39), 15=-574(LC 64), 14=-1084(LC 39), 13=-1019(LC 42), 16=-866(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 22, 12, 19, 15 except 18=2602(LC 64), 18=1936(LC 1), 20=1282(LC 43), 21=1083(LC 60), 14=1271(LC 60), 13=1074(LC 59), 16=2611(LC 63), 16=1936(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-335/338, 2-3=-555/573, 3-4=-257/275, 4-5=-517/536, 5-6=-722/565, 6-7=-715/557, 7-8=-551/567, 8-9=-291/306, 9-10=-573/589, 10-11=-327/327
BOT CHORD	21-22=-587/560, 20-21=-1109/1133, 19-20=-812/771, 18-19=-1166/1139, 17-18=-1166/1139, 16-17=-1059/1033, 15-16=-1059/1033, 14-15=-705/653, 13-14=-980/980, 12-13=-433/431
WEBS	5-18=-1306/1117, 5-17=-1614/1860, 7-17=-1652/1898, 7-16=-1330/1141, 2-21=-1060/1058, 10-13=-1067/1082, 2-20=-1530/1508, 10-14=-1474/1449

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 12 except (jt=lb) 18=867, 19=575, 20=1100, 21=1034, 15=574, 14=1084, 13=1019, 16=866.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-1-6, 12-2-10 to 19-4-0 for 271.7 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Continued on page 2

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T50	GABLE	1	1	I51032294 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-11=-70, 18-22=-20, 16-18=-420(F=-400), 12-16=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T50A	GABLE	1	1	I51032295
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:38 2022 Page 1
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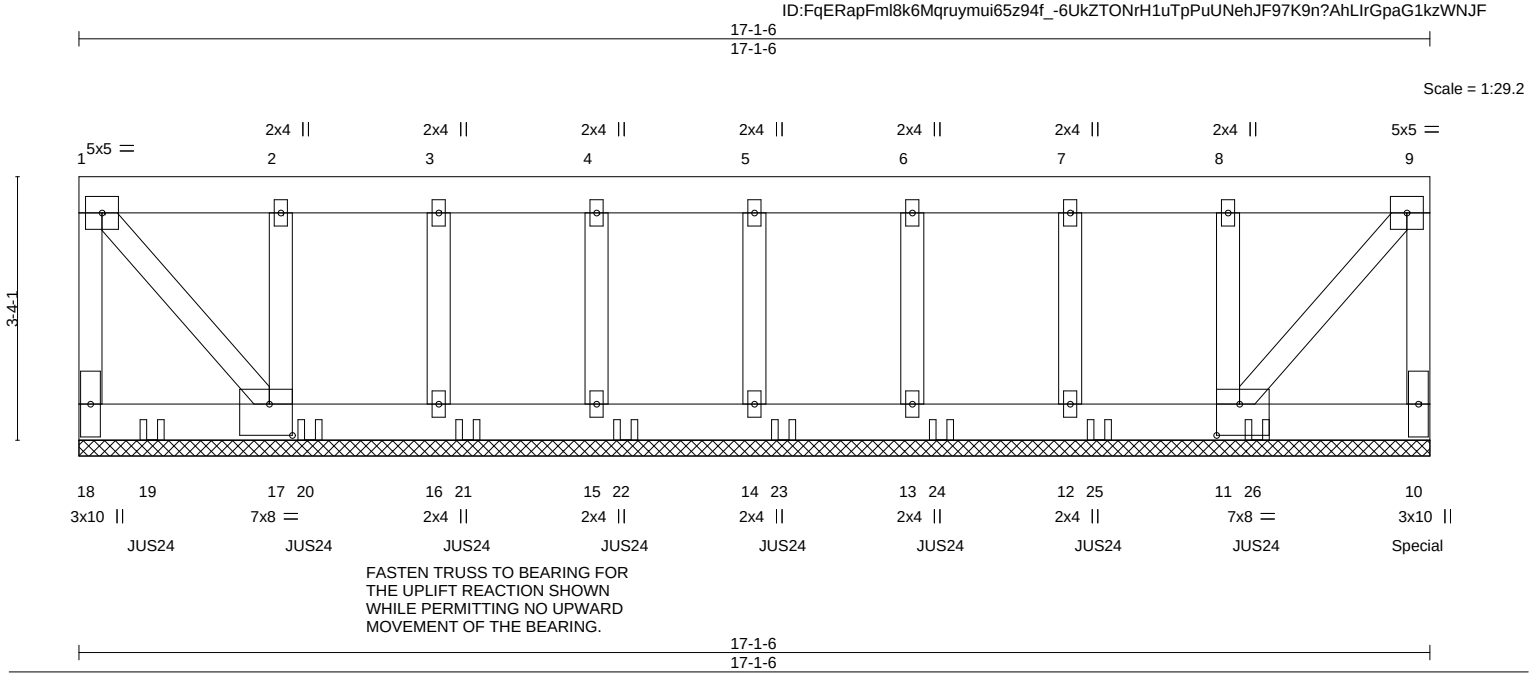

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 122 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-1-6.
(lb) - Max Horz 18=-62(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1912(LC 39), 10=-1825(LC 42), 17=-1745(LC 42), 11=-1785(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2234(LC 60), 10=2392(LC 59), 14=886(LC 1), 15=920(LC 1), 16=805(LC 1), 17=2577(LC 59), 13=913(LC 1), 12=803(LC 1), 11=2470(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-2027/2019, 1-2=-1644/1645, 2-3=-1210/1206, 3-4=-809/811, 4-5=-410/411, 5-6=-410/411, 6-7=-809/811, 7-8=-1210/1206, 8-9=-1644/1645, 9-10=-2044/2046
BOT CHORD	17-18=-561/565, 16-17=-1239/1238, 15-16=-839/838, 14-15=-439/438, 13-14=-439/438, 12-13=-839/838, 11-12=-1239/1238, 10-11=-507/507
WEBS	1-17=-2690/2691, 9-11=-2643/2641

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1912 lb uplift at joint 18, 1825 lb uplift at joint 10, 1745 lb uplift at joint 17 and 1785 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-1-6 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-2 from the left end to 14-11-2 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 665 lb down at 16-11-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 10=-665(F) 19=-718(F) 20=-716(F) 21=-716(F) 22=-716(F) 23=-716(F) 24=-716(F) 25=-655(F) 26=-655(F)

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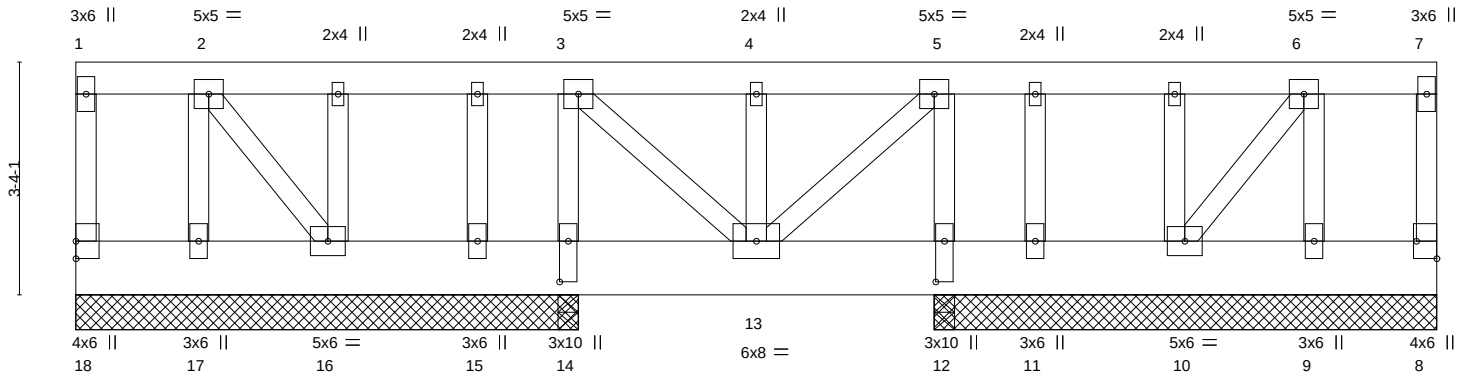
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T51	GABLE	1	1	I51032296
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:41 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-X3Qh5QPjayH1gtd23mE0tnlvv_3fuiTHznowe2zWNJC

7-0-12 | 9-9-2 | 12-5-8 | 19-6-4
7-0-12 | 2-8-6 | 2-8-6 | 7-0-12

Scale = 1:33.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

7-0-12 | 7-2-8 | 9-9-2 | 12-3-12 | 12-5-8 | 19-6-4
7-0-12 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 7-0-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 174 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8 except (jt=length) 12=0-4-3 (input: 0-3-8), 12=0-4-3 (input: 0-3-8).
(lb) - Max Horz 18=-81(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8 except 14=-1862(LC 39), 15=-558(LC 63), 16=-135(LC 42), 11=-558(LC 63), 10=-134(LC 39), 12=-1862(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 14=3407(LC 64), 14=2047(LC 1), 16=472(LC 31), 10=472(LC 32), 12=3429(LC 63), 12=2047(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-383/386, 2-3=-1373/1381, 3-4=-723/515, 4-5=-723/515, 5-6=-1424/1426, 6-7=-375/375
BOT CHORD	17-18=-542/515, 16-17=-1033/1057, 15-16=-1592/1525, 14-15=-1952/1920, 13-14=-1952/1920, 12-13=-1910/1913, 11-12=-1910/1913, 10-11=-1550/1554, 9-10=-982/981, 8-9=-466/463
WEBS	3-14=-2346/2156, 3-13=-2684/2930, 5-13=-2756/3002, 5-12=-2399/2209, 2-16=-411/348, 6-10=-411/343

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 12, 12 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8 except (jt=lb) 14=1862, 15=558, 16=135, 11=558, 10=134, 12=1862.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-0-12, 12-5-8 to 19-6-4 for 276.4 plf.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

March 28,2022

LOAD CASE(S) Standard

Continued on page 2

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
					I51032296
PRYOR-R2B	T51	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-420(F=-400), 8-12=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T51A	GABLE	1	1	I51032297
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:44 2022 Page 1
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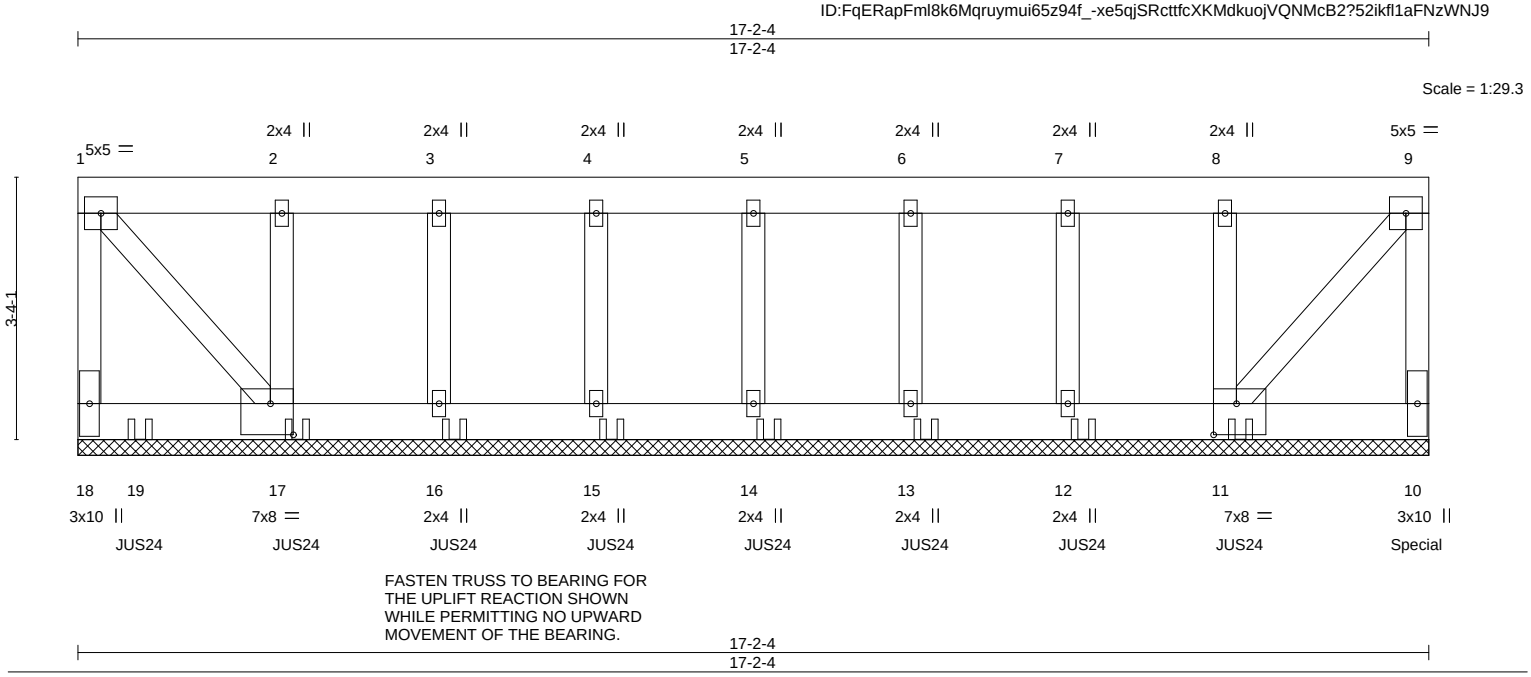

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 122 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-2-4.
(lb) - Max Horz 18=-62(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1883(LC 39), 10=-1816(LC 42), 17=-1730(LC 42), 11=-1789(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2233(LC 60), 10=2348(LC 59), 14=828(LC 1), 15=862(LC 1), 16=731(LC 1), 17=2550(LC 59), 13=839(LC 1), 12=824(LC 1), 11=2402(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-2007/1999, 1-2=-1651/1655, 2-3=-1210/1206, 3-4=-808/814, 4-5=-410/414, 5-6=-410/414, 6-7=-808/814, 7-8=-1210/1206, 8-9=-1651/1655, 9-10=-2025/2027
BOT CHORD	17-18=-573/580, 16-17=-1239/1243, 15-16=-799/803, 14-15=-439/443, 13-14=-439/443, 12-13=-839/843, 11-12=-1239/1243, 10-11=-514/518
WEBS	1-17=-2682/2684, 9-11=-2631/2632

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1883 lb uplift at joint 18, 1816 lb uplift at joint 10, 1730 lb uplift at joint 17 and 1789 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-2-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-8 from the left end to 14-9-8 to connect truss(es) to front face of bottom chord.

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 663 lb down at 17-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 10=-663(F) 14=-655(F) 15=-655(F) 16=-655(F) 17=-655(F) 13=-655(F) 12=-655(F) 11=-655(F) 19=-659(F)

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T52	Roof Special Girder	1	1	I51032298
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:46 2022 Page 1
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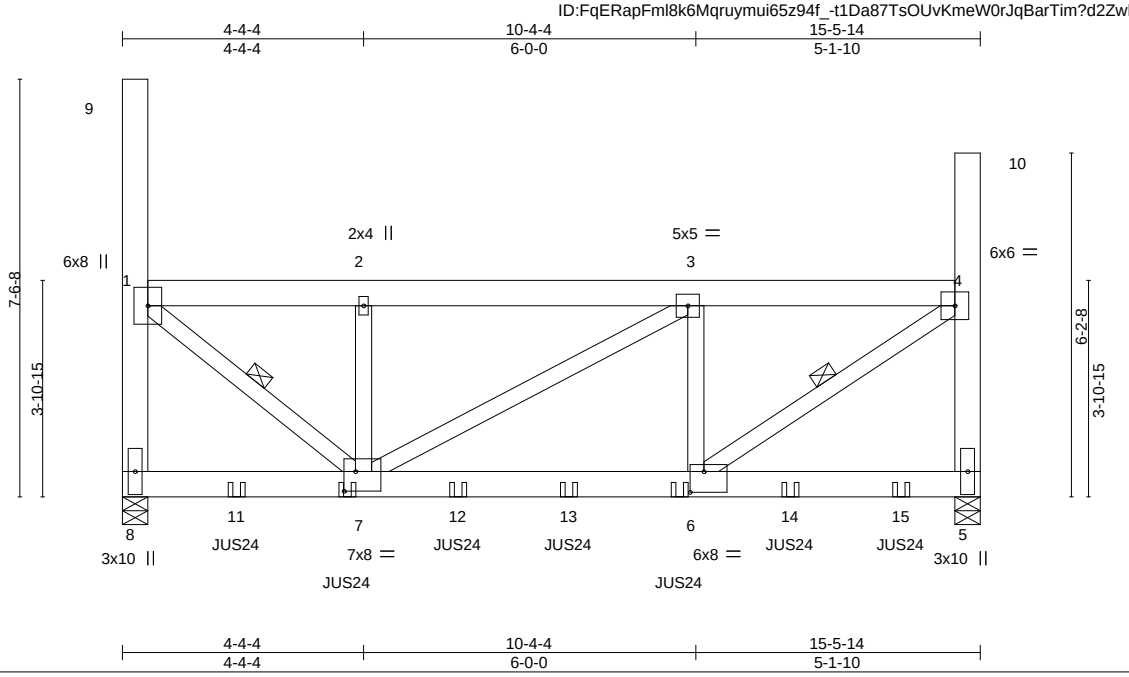

Plate Offsets (X,Y)-- [6:0-3-0,0-4-8], [7:0-2-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.14	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.15	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 134 lb	FT = 3%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-9,5-10: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-9 oc bracing.
WEBS	1 Row at midpt 1-7, 4-6

REACTIONS. (size) 8=0-5-8, 5=0-5-8
Max Horz 8=-272(LC 11)
Max Uplift 8=-1554(LC 11), 5=-1579(LC 12)
Max Grav 8=2459(LC 54), 5=2521(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-2288/1771, 1-2=-2574/1989, 2-3=-2574/1989, 3-4=-2766/2015, 4-5=-2202/1662
BOT CHORD 7-8=-524/600, 6-7=-2174/2792
WEBS 1-7=-2484/3193, 2-7=-793/314, 3-7=-463/548, 3-6=-738/483, 4-6=-2629/3341

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1554 lb uplift at joint 8 and 1579 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

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Continued on page 2

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MiTek
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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 7=-151(B) 6=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-151(B) 15=-151(B)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-120(B) 6=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-120(B) 15=-120(B)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-120(B) 6=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-120(B) 15=-120(B)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-90, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-120(B) 6=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-120(B) 15=-120(B)

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-151(B) 6=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-151(B) 15=-151(B)

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-110, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-151(B) 6=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-151(B) 15=-151(B)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-9=27, 4-5=3, 4-10=18
Concentrated Loads (lb)
Vert: 7=283(B) 6=283(B) 11=283(B) 12=283(B) 13=283(B) 14=283(B) 15=159(B)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 4-5=-13, 4-10=-27
Concentrated Loads (lb)
Vert: 7=283(B) 6=283(B) 11=283(B) 12=283(B) 13=283(B) 14=283(B) 15=159(B)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-9=-18, 4-5=2, 4-10=18
Concentrated Loads (lb)
Vert: 7=283(B) 6=283(B) 11=283(B) 12=283(B) 13=283(B) 14=283(B) 15=159(B)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 4-5=-10, 4-10=18
Concentrated Loads (lb)
Vert: 7=283(B) 6=283(B) 11=283(B) 12=283(B) 13=283(B) 14=283(B) 15=159(B)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-151(B) 6=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-151(B) 15=-151(B)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-9=27, 4-5=3, 4-10=18
Concentrated Loads (lb)
Vert: 7=-432(B) 6=-432(B) 11=-432(B) 12=-432(B) 13=-432(B) 14=-432(B) 15=-307(B)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=-3, 1-9=-18, 4-5=-13, 4-10=-27
Concentrated Loads (lb)
Vert: 7=-432(B) 6=-432(B) 11=-432(B) 12=-432(B) 13=-432(B) 14=-432(B) 15=-307(B)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-9=-18, 4-5=2, 4-10=18
Concentrated Loads (lb)
Vert: 7=-432(B) 6=-432(B) 11=-432(B) 12=-432(B) 13=-432(B) 14=-432(B) 15=-307(B)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-111, 5-8=-20

Horz: 1-8=-2, 1-9=-18, 4-5=-10, 4-10=18

Concentrated Loads (lb)

Vert: 7=-432(B) 6=-432(B) 11=-432(B) 12=-432(B) 13=-432(B) 14=-432(B) 15=-307(B)

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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T53	Roof Special Girder	1	1	I51032299
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:47 2022 Page 1
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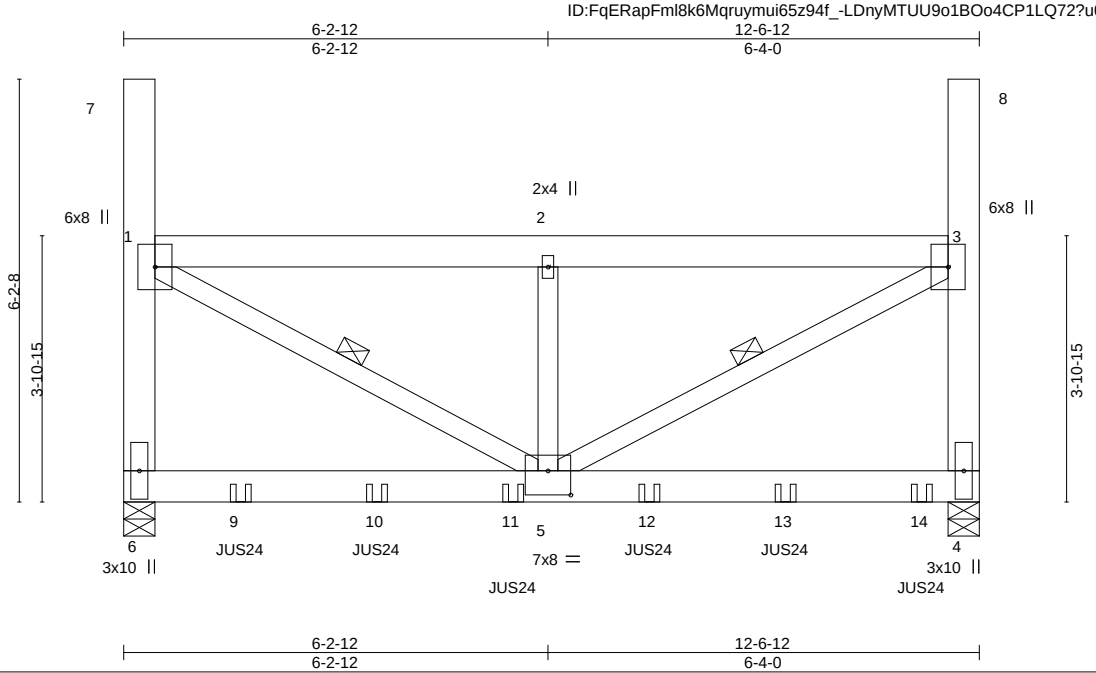

Plate Offsets (X,Y)-- [5:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.09	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.10	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 107 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7,4-8: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-5, 3-5

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=224(LC 12)
Max Uplift 6=-861(LC 11), 4=-986(LC 12)
Max Grav 6=1701(LC 54), 4=1838(LC 53)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1373/937, 1-2=-1817/1105, 2-3=-1817/1105, 3-4=-1362/929
BOT CHORD 5-6=-479/461
WEBS 1-5=-1533/2069, 2-5=-934/345, 3-5=-1532/2059

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 861 lb uplift at joint 6 and 986 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-10 from the left end to 11-8-10 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20

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Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 9=-151(B) 10=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-155(B)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-120, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-120(B) 10=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-124(B)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-90, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-120(B) 10=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-124(B)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-90, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-120(B) 10=-120(B) 11=-120(B) 12=-120(B) 13=-120(B) 14=-124(B)

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-110, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-151(B) 10=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-155(B)

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-110, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-151(B) 10=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-155(B)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 3-4=3, 3-8=18
Concentrated Loads (lb)
Vert: 9=159(B) 10=159(B) 11=159(B) 12=159(B) 13=159(B) 14=155(B)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 3-4=-13, 3-8=-27
Concentrated Loads (lb)
Vert: 9=159(B) 10=159(B) 11=159(B) 12=159(B) 13=159(B) 14=155(B)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 3-4=2, 3-8=18
Concentrated Loads (lb)
Vert: 9=159(B) 10=159(B) 11=159(B) 12=159(B) 13=159(B) 14=155(B)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 3-4=-10, 3-8=18
Concentrated Loads (lb)
Vert: 9=159(B) 10=159(B) 11=159(B) 12=159(B) 13=159(B) 14=155(B)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-151(B) 10=-151(B) 11=-151(B) 12=-151(B) 13=-151(B) 14=-155(B)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=13, 1-7=27, 3-4=3, 3-8=18
Concentrated Loads (lb)
Vert: 9=-307(B) 10=-307(B) 11=-307(B) 12=-307(B) 13=-307(B) 14=-311(B)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=-3, 1-7=-18, 3-4=-13, 3-8=-27
Concentrated Loads (lb)
Vert: 9=-307(B) 10=-307(B) 11=-307(B) 12=-307(B) 13=-307(B) 14=-311(B)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-111, 4-6=-20
Horz: 1-6=10, 1-7=-18, 3-4=2, 3-8=18
Concentrated Loads (lb)
Vert: 9=-307(B) 10=-307(B) 11=-307(B) 12=-307(B) 13=-307(B) 14=-311(B)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-111, 4-6=-20

Horz: 1-6=-2, 1-7=-18, 3-4=-10, 3-8=18

Concentrated Loads (lb)

Vert: 9=-307(B) 10=-307(B) 11=-307(B) 12=-307(B) 13=-307(B) 14=-311(B)

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T55	Roof Special	9	1	I51032300
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:48 2022 Page 1
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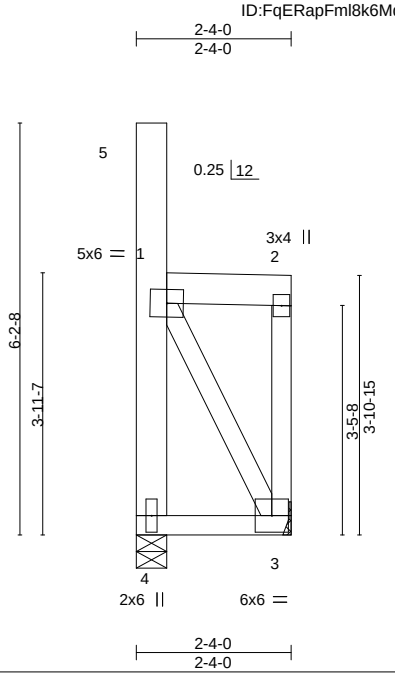

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-165(LC 11)
Max Uplift 4=-276(LC 11), 3=-281(LC 12)
Max Grav 4=342(LC 25), 3=349(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-391/835
BOT CHORD 3-4=-261/412
WEBS 1-3=-750/475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 4 and 281 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-123, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-155, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=13, 1-5=27, 1-2=3, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 1-2=9, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=10, 1-5=-18, 1-2=3, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 1-2=9, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T55A	Roof Special	7	1	I51032301
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:50 2022 Page 1
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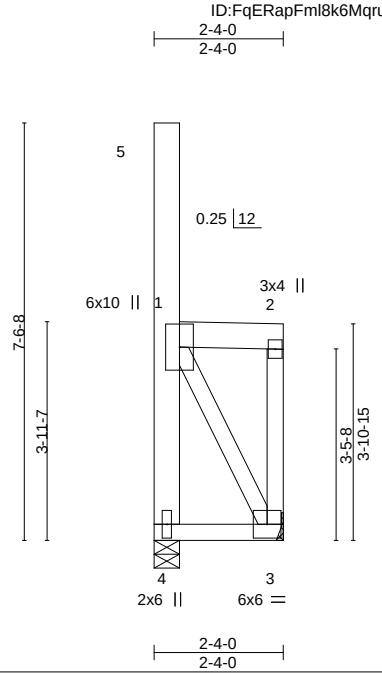

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-213(LC 11)
Max Uplift 4=-442(LC 11), 3=-447(LC 12)
Max Grav 4=488(LC 14), 3=498(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-623/1298
BOT CHORD 3-4=-348/586
WEBS 1-3=-1112/657

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 442 lb uplift at joint 4 and 447 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-123, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-155, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=13, 1-5=27, 1-2=3, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 1-2=9, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=10, 1-5=-18, 1-2=3, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 1-2=9, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T58	Roof Special	1	1	I51032302
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:51 2022 Page 1
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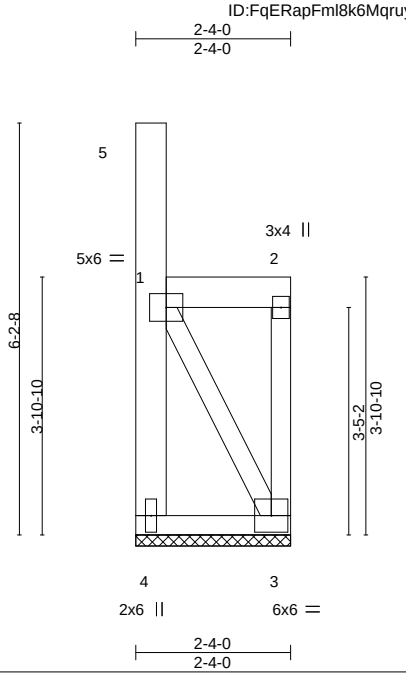

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-166(LC 11)
Max Uplift 4=-285(LC 11), 3=-285(LC 12)
Max Grav 4=345(LC 25), 3=345(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/837
BOT CHORD 3-4=-268/416
WEBS 1-3=-749/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 4 and 285 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T59	Roof Special	1	1	I51032303
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:52 2022 Page 1
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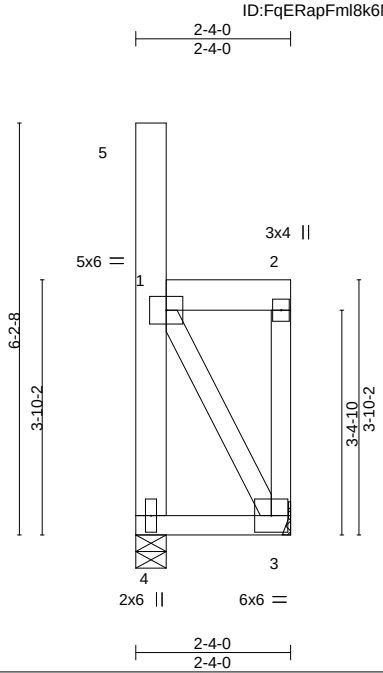

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=166(LC 12)
Max Uplift 4=-286(LC 11), 3=-286(LC 12)
Max Grav 4=346(LC 25), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-398/841
BOT CHORD 3-4=-269/420
WEBS 1-3=-751/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 4 and 286 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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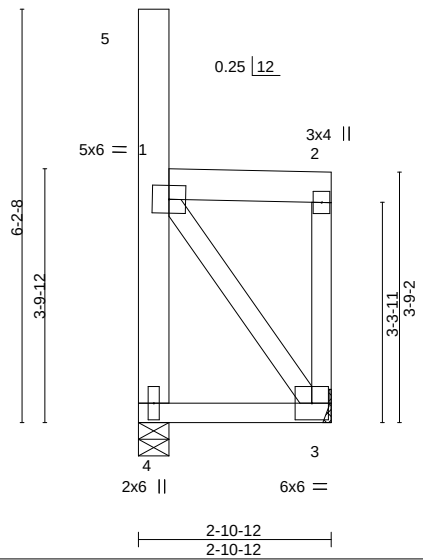
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T60	Roof Special	7	1	I51032304
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:42:54 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-eZicqtZtWyvBkt7YJ?z3vXo7hDViRhmCyIS6cozWNJ?

2-10-12
2-10-12

Scale = 1:34.6



2-10-12
2-10-12

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	3-4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-167(LC 11)
Max Uplift 4=-212(LC 11), 3=-219(LC 12)
Max Grav 4=333(LC 25), 3=342(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-308/692
BOT CHORD 3-4=-271/430
WEBS 1-3=-644/406

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 4 and 219 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-99, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-124, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-122, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-155, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=13, 1-5=27, 1-2=3, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 1-2=9, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-117, 3-4=-20
Horz: 1-4=10, 1-5=-18, 1-2=3, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 1-2=9, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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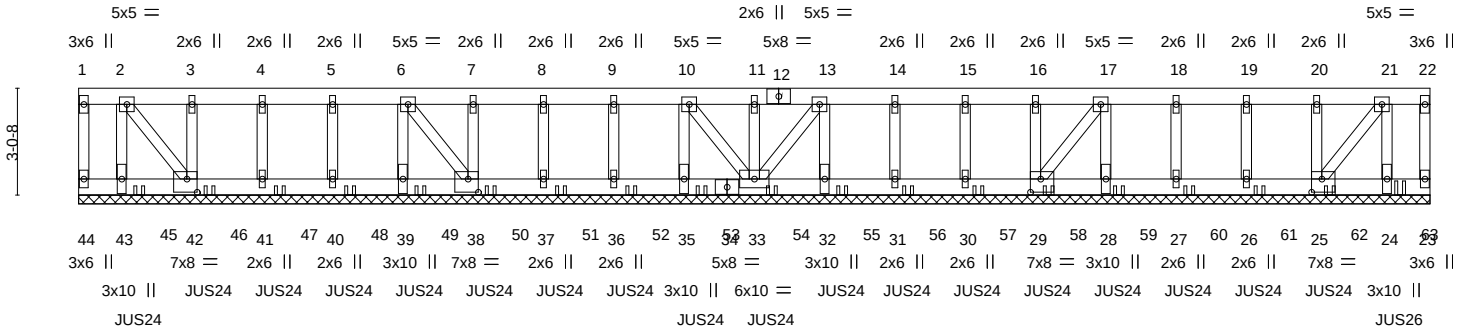
Building 2 Area B ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA B BLDG 2 (ROOF)
PRYOR-R2B	T62	GABLE	1	1	I51032305
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Mar 28 14:43:00 2022 Page 1
ID:FqERapFml8k6Mqruymui65z94f_-Tj3t4wee5ogLSoaigG4T8o29TeXErKv4KEvQoSzWNIv

38-5-6
38-5-6

Scale = 1:65.6



FASTEN TRUSS TO BEARING FOR
THE UPLIFT REACTION SHOWN
WHILE PERMITTING NO UPWARD
MOVEMENT OF THE BEARING.

38-5-6
38-5-6

Plate Offsets (X,Y)-- [25:0-3-8,0-4-8], [29:0-3-8,0-4-8], [38:0-3-8,0-4-8], [42:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	-0.00	33	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 270 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 38-5-6.
(lb) - Max Horz 44=-55(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 44=-275(LC 59), 23=-208(LC 42), 35=-1230(LC 39), 38=-1410(LC 42), 39=-1355(LC 39), 42=-1332(LC 42), 43=-1155(LC 39), 32=-1231(LC 42), 29=-1386(LC 39), 28=-1339(LC 42), 25=-1308(LC 41), 24=-1119(LC 40)
Max Grav All reactions 250 lb or less at joint(s) 44 except 23=353(LC 31), 33=912(LC 1), 35=1807(LC 60), 36=832(LC 1), 37=837(LC 1), 38=1999(LC 59), 39=1933(LC 60), 40=838(LC 32), 41=830(LC 1), 42=1927(LC 59), 43=1650(LC 60), 32=1809(LC 59), 31=931(LC 1), 30=898(LC 1), 29=2036(LC 60), 28=1956(LC 59), 27=876(LC 1), 26=875(LC 1), 25=1943(LC 60), 24=1699(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1110/1107, 3-4=-710/707, 4-5=-310/307, 5-6=-506/502, 6-7=-833/841, 7-8=-433/441, 8-9=-393/400, 9-10=-793/800, 10-11=-427/441, 11-13=-427/441, 13-14=-800/807, 14-15=-400/407, 15-16=-441/448, 16-17=-841/848, 17-18=-518/518, 18-19=-323/323, 19-20=-723/723, 20-21=-1123/1123
BOT CHORD	42-43=-639/641, 41-42=-738/738, 40-41=-338/338, 39-40=-533/533, 38-39=-933/933, 37-38=-455/446, 36-37=-414/405, 35-36=-814/805, 33-35=-1214/1205, 32-33=-1210/1201, 31-32=-810/801, 30-31=-410/401, 29-30=-450/441, 28-29=-921/915, 27-28=-521/515, 26-27=-326/320, 25-26=-726/720, 24-25=-600/599
WEBS	10-35=-1450/1428, 6-39=-1569/1544, 2-43=-1382/1365, 13-32=-1458/1436, 17-28=-1583/1558, 21-24=-1399/1377, 2-42=-2136/2134, 21-25=-2098/2095, 10-33=-1960/1950, 13-33=-1949/1938, 6-38=-2184/2179, 17-29=-2165/2158

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 23-3-10, Corner(3) 23-3-10 to 38-3-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

March 28,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

NOTES-

6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 44, 208 lb uplift at joint 23, 1230 lb uplift at joint 35, 1410 lb uplift at joint 38, 1355 lb uplift at joint 39, 1332 lb uplift at joint 42, 1155 lb uplift at joint 43, 1231 lb uplift at joint 32, 1386 lb uplift at joint 29, 1339 lb uplift at joint 28, 1308 lb uplift at joint 25 and 1119 lb uplift at joint 24.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 38-5-6 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-11 from the left end to 35-7-3 to connect truss(es) to back face of bottom chord.
14) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 37-7-3 from the left end to connect truss(es) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-22=-70, 23-44=-20
   Concentrated Loads (lb)
   Vert: 45=-655(B) 46=-655(B) 47=-655(B) 48=-655(B) 49=-655(B) 50=-655(B) 51=-655(B) 52=-655(B) 53=-655(B) 54=-655(B) 55=-655(B) 56=-724(B) 57=-724(B) 58=-724(B) 59=-698(B) 60=-698(B) 61=-698(B) 62=-698(B) 63=-701(B)

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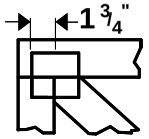
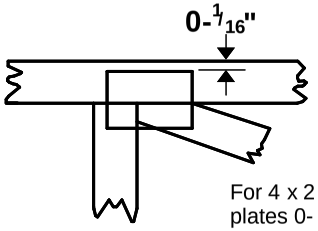
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

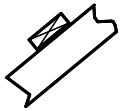
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

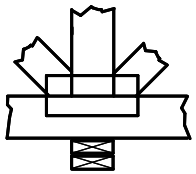
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

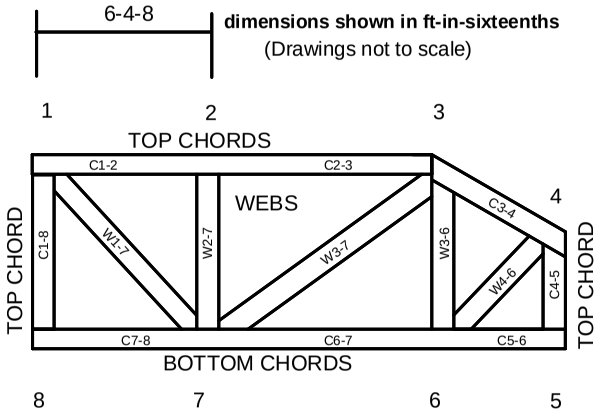


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area B ROOF

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

President
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Jeffrey L. Wright, P.E.
Christopher W. Boos, P.E.

Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: April 20, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 2

TRANSMITTING:

DESCRIPTION	REMARKS
061753-19 Revision 0: Building 2 - Area C - Roof Truss SD	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2101

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

Kolten Ragan, Project Engineer
Brinkmann Constructors
11101 Switzer Road, Suite 310
Overland Park, KS 66210

Date: 4/18/2022

To:
TR,i Architects
Attn: Michaela Silva
1790 S Brentwood Blvd
St. Louis, MO 63144

Re: **Signature at West Pryor**
2100 NW Lowenstein Dr.
Lee's Summit, MO 64081
Job #: 1386

We are sending:

- ☐ Product Data
- ☐ Reports
- ☑ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☑ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☑ Via email (PDF)
- ☑ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-19	Building 2 - Area C Roof Truss SD	4/18/2022	5/13/2022

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 4/21/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TR,i ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Brinkmann Approval	
Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.	
By: Kolten Ragan	**Date:** 4/18/2022

Brinkmann Comments in Green

PRYOR-R2C

SHOP DRAWING REVIEW

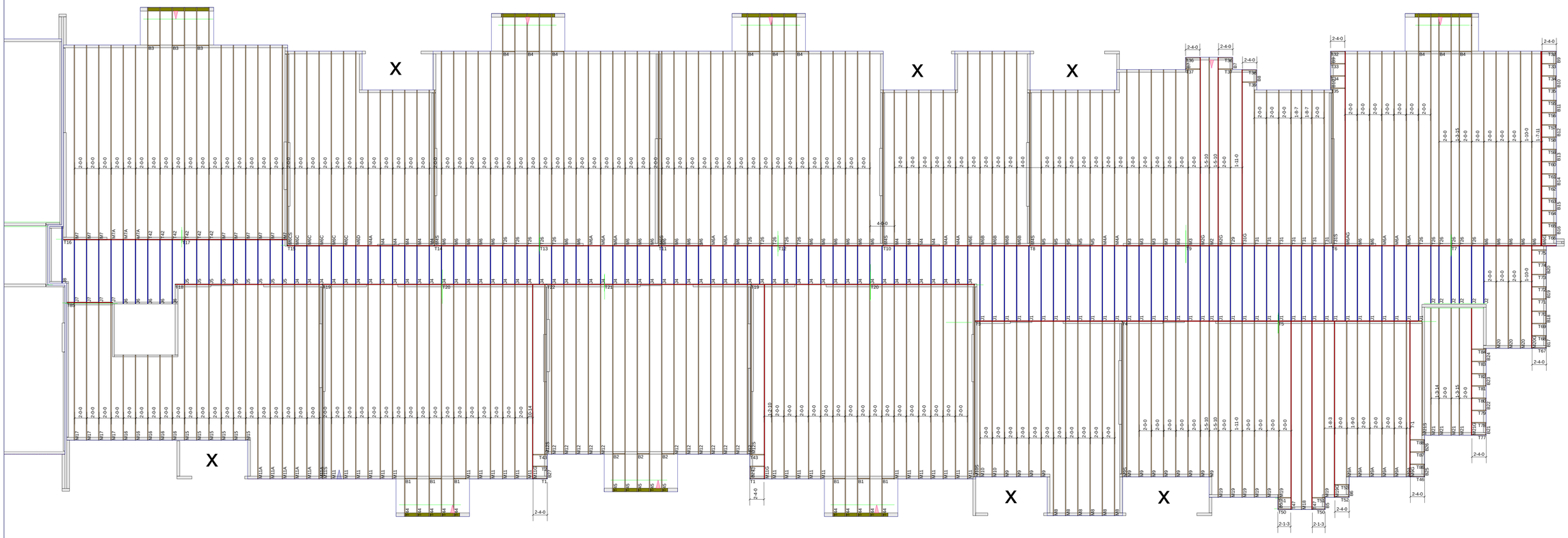
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS.
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED, REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE 04/20/2022 BY CB



TRUSS LAYOUT
Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

The Signature at West Pryor
Building #2 Area C
Roof

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED: REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 04/20/2022 *BY:* CB

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: PRYOR-R2C
WEST PRYOR-AREA C BLDG 2 (ROOF)

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I51408818 thru I51408972

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193

REVIEWED ☑ **DATE RECIEVED:**

REVIEWED AS NOTED ☐ **DATE REVIEWED:** 4/21/2022

REVISE AND RESUBMIT ☐ **REVIEWED BY:** michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED
CHANGE ORDER.

TRi ARCHITECTS

1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

April 15,2022

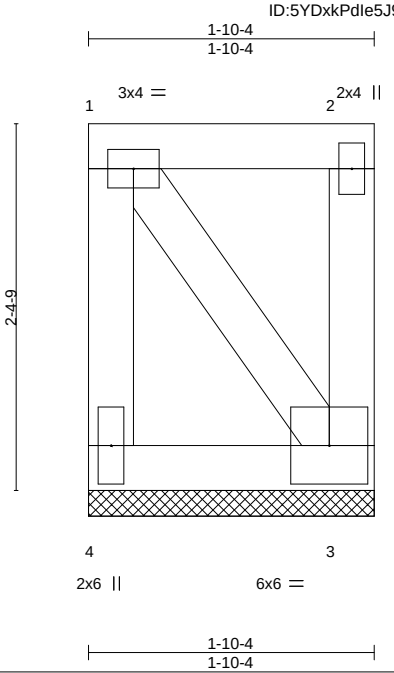
Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B1	Blocking	6	1	I51408818
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:39 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-Rvs6L8Zu?y9gLm4M8PHCndgXaC4gNiZDlO9?aDzQTOg



Scale = 1:15.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-45(LC 12)
Max Uplift 4=-444(LC 39), 3=-444(LC 42)
Max Grav 4=477(LC 46), 3=477(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-462/454, 1-2=-301/303
BOT CHORD 3-4=-351/354
WEBS 1-3=-606/606

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 444 lb uplift at joint 4 and 444 lb uplift at joint 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B2	Blocking	3	1	I51408819
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:50 2022 Page 1
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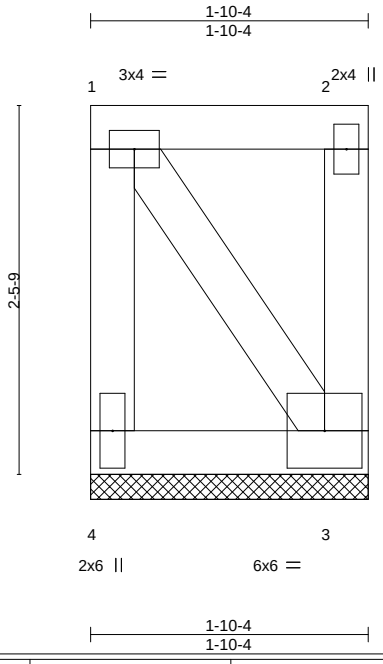

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=46(LC 13)
Max Uplift 4=-464(LC 39), 3=-464(LC 42)
Max Grav 4=497(LC 46), 3=497(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-481/475, 1-2=-302/304
BOT CHORD 3-4=-354/357
WEBS 1-3=-625/625

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 464 lb uplift at joint 4 and 464 lb uplift at joint 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B3	Blocking	3	1	I51408820
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:59 2022 Page 1
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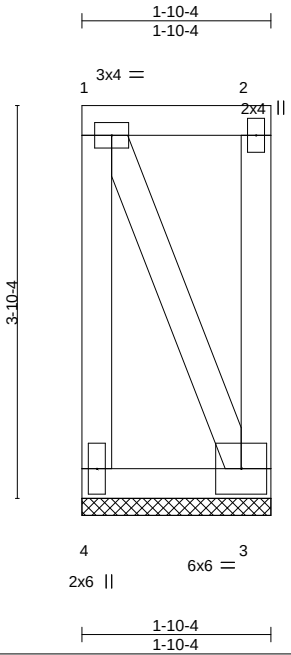

Scale = 1:22.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=76(LC 13)
Max Uplift 4=-796(LC 39), 3=-796(LC 42)
Max Grav 4=829(LC 46), 3=829(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-857/876, 1-2=-315/319
BOT CHORD 3-4=-401/405
WEBS 1-3=-992/992

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 796 lb uplift at joint 4 and 796 lb uplift at joint 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B4	Blocking	9	1	I51408821
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:00 2022 Page 1
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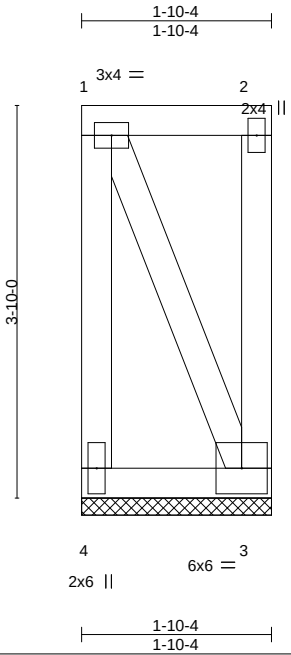

Scale = 1:22.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=-76(LC 10)
Max Uplift 4=-791(LC 39), 3=-791(LC 42)
Max Grav 4=824(LC 46), 3=824(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-851/870, 1-2=-315/319
BOT CHORD 3-4=-400/404
WEBS 1-3=-986/986

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Gable requires continuous bottom chord bearing.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 791 lb uplift at joint 4 and 791 lb uplift at joint 3.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B5	Blocking	2	1	I51408822
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:01 2022 Page 1
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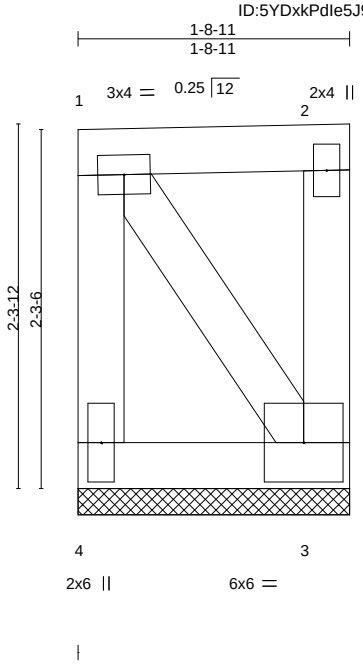

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 13 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-11, 3=1-8-11
Max Horz 4=43(LC 46)
Max Uplift 4=-430(LC 44), 3=-420(LC 47)
Max Grav 4=467(LC 51), 3=455(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-453/443, 1-2=-278/279
BOT CHORD 3-4=-327/328
WEBS 1-3=-574/577

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 430 lb uplift at joint 4 and 420 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-11 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B6	Blocking	1	1	I51408823
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:02 2022 Page 1
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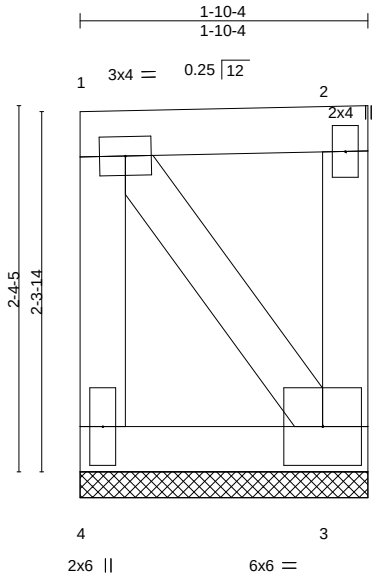

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=44(LC 46)
Max Uplift 4=-438(LC 44), 3=-427(LC 47)
Max Grav 4=478(LC 51), 3=464(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-462/447, 1-2=-302/303
BOT CHORD 3-4=-353/353
WEBS 1-3=-594/598

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 438 lb uplift at joint 4 and 427 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B7	Blocking	2	1	I51408824
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:03 2022 Page 1
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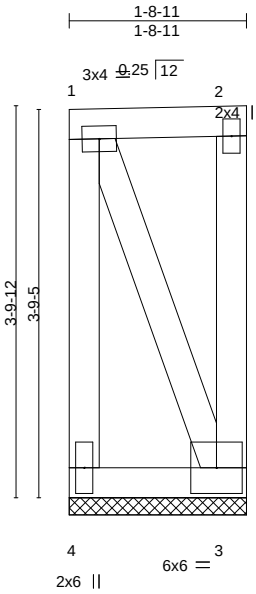

Scale = 1:22.4

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-8-11, 3=1-8-11
Max Horz 4=75(LC 50)
Max Uplift 4=-791(LC 44), 3=-782(LC 47)
Max Grav 4=829(LC 51), 3=815(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-868/881, 1-2=-292/295
BOT CHORD 3-4=-378/380
WEBS 1-3=-977/982

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 791 lb uplift at joint 4 and 782 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-11 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B8	Blocking	1	1	I51408825
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:04 2022 Page 1
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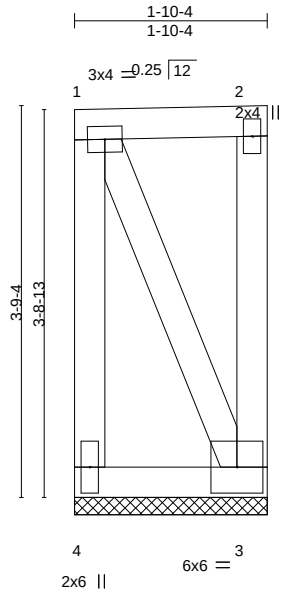

Scale = 1:22.2

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=74(LC 50)
Max Uplift 4=-773(LC 44), 3=-762(LC 47)
Max Grav 4=814(LC 51), 3=799(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-834/849, 1-2=-315/318
BOT CHORD 3-4=-400/402
WEBS 1-3=-959/964

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 4 and 762 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B9	Blocking	2	1	I51408826
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:05 2022 Page 1
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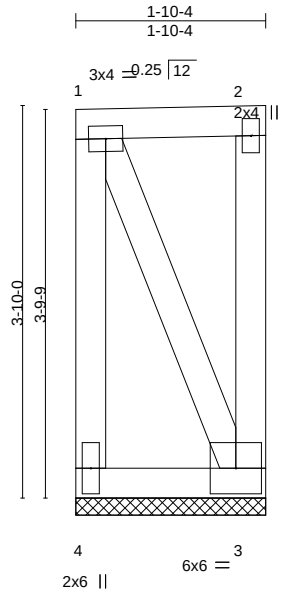

Scale = 1:22.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=76(LC 46)
Max Uplift 4=-788(LC 44), 3=-778(LC 47)
Max Grav 4=829(LC 51), 3=815(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-853/868, 1-2=-316/318
BOT CHORD 3-4=-402/404
WEBS 1-3=-977/982

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 788 lb uplift at joint 4 and 778 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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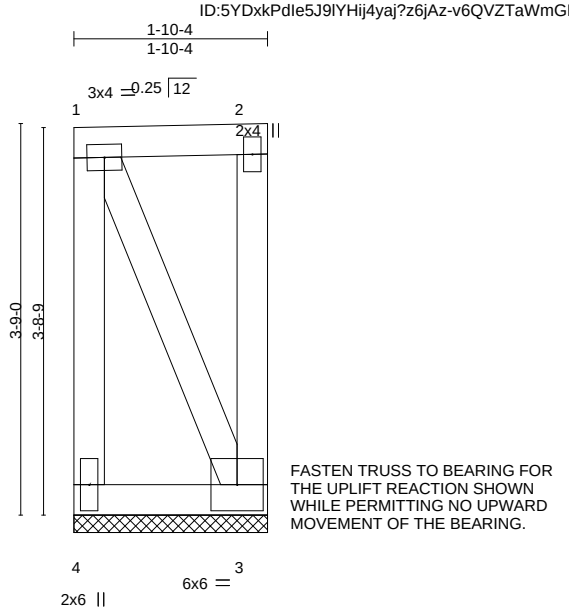
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B10	Blocking	2	1	I51408827
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:40 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-v6QVZTaWmGHXywfYi6oRJqCftbQm68DM_2uY6fzQTOf



Scale = 1:22.1

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=74(LC 46)
Max Uplift 4=-768(LC 44), 3=-757(LC 47)
Max Grav 4=808(LC 51), 3=794(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-828/842, 1-2=-315/318
BOT CHORD 3-4=-399/401
WEBS 1-3=-953/958

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 768 lb uplift at joint 4 and 757 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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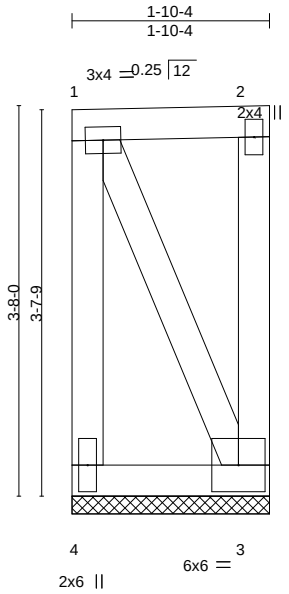
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B11	Blocking	1	1	I51408828
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:41 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-NI_tmpb8XaPOa3EkGqJgs2lqo?m?rbhWDie5f6zQTOe



Scale = 1:21.6

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=72(LC 50)
Max Uplift 4=-747(LC 44), 3=-737(LC 47)
Max Grav 4=788(LC 51), 3=774(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-802/817, 1-2=-314/317
BOT CHORD 3-4=-396/398
WEBS 1-3=-929/934

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 747 lb uplift at joint 4 and 737 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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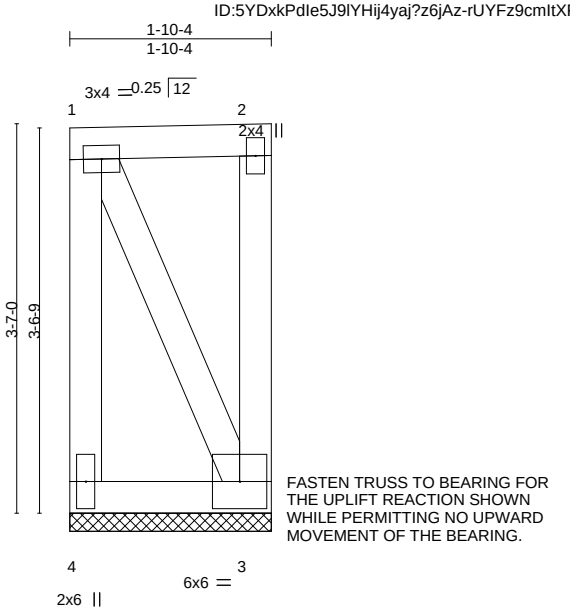
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B12	Blocking	1	1	I51408829
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:42 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-rUYFz9cmItXFCDpxqXqvPFH0iP6Fa28fSMNfBYzQTOd



Scale = 1:21.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 19 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=70(LC 46)
Max Uplift 4=-727(LC 44), 3=-716(LC 47)
Max Grav 4=767(LC 51), 3=753(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-777/792, 1-2=-314/316
BOT CHORD 3-4=-394/395
WEBS 1-3=-905/910

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 727 lb uplift at joint 4 and 716 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B13	Blocking	1	1	I51408830
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:43 2022 Page 1
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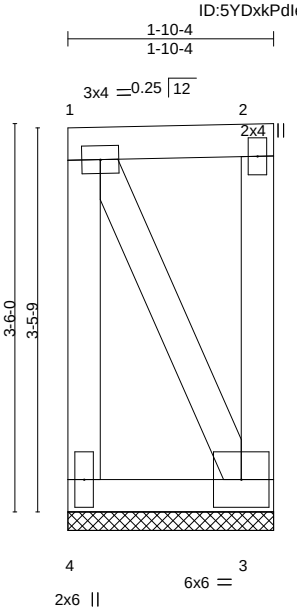

Scale = 1:20.8

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=68(LC 50)
Max Uplift 4=-706(LC 44), 3=-696(LC 47)
Max Grav 4=747(LC 51), 3=733(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-752/767, 1-2=-313/315
BOT CHORD 3-4=-391/392
WEBS 1-3=-882/887

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 706 lb uplift at joint 4 and 696 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B14	Blocking	1	1	I51408831
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:44 2022 Page 1
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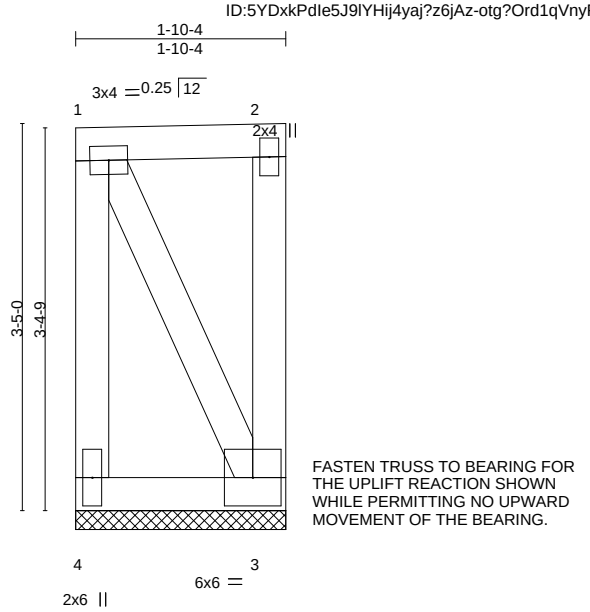

Scale = 1:20.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=67(LC 51)
Max Uplift 4=-686(LC 44), 3=-676(LC 47)
Max Grav 4=727(LC 51), 3=713(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-727/742, 1-2=-312/314
BOT CHORD 3-4=-388/389
WEBS 1-3=-859/864

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 686 lb uplift at joint 4 and 676 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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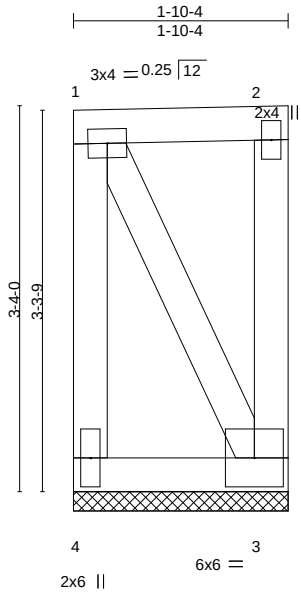
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B15	Blocking	1	1	I51408832
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:45 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-G3EOcBefbovp3hYWVgNc0tvXPc7_nQG58JcJotzQTOa



Scale = 1:19.9

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=65(LC 47)
Max Uplift 4=-666(LC 44), 3=-655(LC 47)
Max Grav 4=707(LC 51), 3=692(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-702/717, 1-2=-311/313
BOT CHORD 3-4=-385/387
WEBS 1-3=-836/841

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 666 lb uplift at joint 4 and 655 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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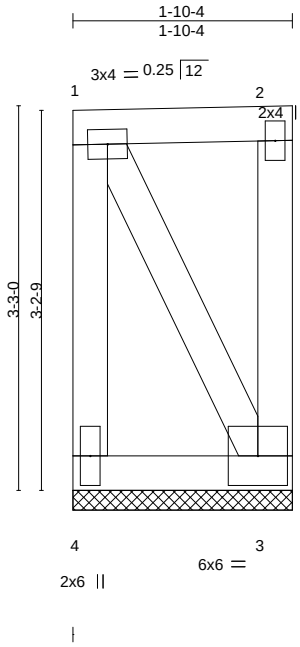
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B16	Blocking	1	1	I51408833
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:46 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-kGnmpXfHL61ggr7i3NvrZ5SiI0TDWtbFMzLsKJzQTOZ



Scale = 1:19.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=63(LC 51)
Max Uplift 4=-646(LC 44), 3=-635(LC 47)
Max Grav 4=686(LC 51), 3=672(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-678/693, 1-2=-311/312
BOT CHORD 3-4=-382/384
WEBS 1-3=-814/818

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 646 lb uplift at joint 4 and 635 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B17	Blocking	1	1	I51408834
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:47 2022 Page 1
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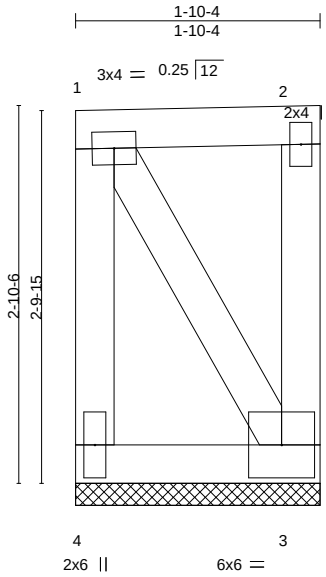

Scale = 1:17.5

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=55(LC 50)
Max Uplift 4=-555(LC 44), 3=-544(LC 47)
Max Grav 4=595(LC 51), 3=581(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-579/583, 1-2=-307/308
BOT CHORD 3-4=-370/370
WEBS 1-3=-714/718

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 555 lb uplift at joint 4 and 544 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B18	Blocking	1	1	I51408835
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:48 2022 Page 1
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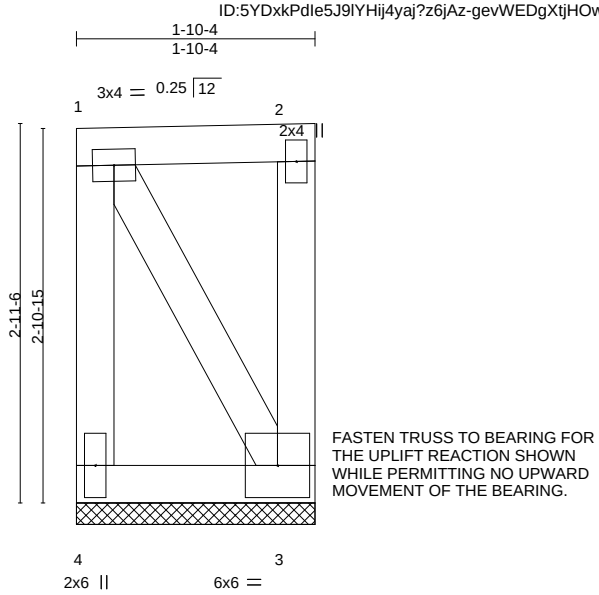

Scale = 1:17.9

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=57(LC 50)
Max Uplift 4=-574(LC 44), 3=-564(LC 47)
Max Grav 4=615(LC 51), 3=601(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-599/607, 1-2=-308/309
BOT CHORD 3-4=-372/373
WEBS 1-3=-735/740

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 574 lb uplift at joint 4 and 564 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B19	Blocking	1	1	I51408836
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:49 2022 Page 1
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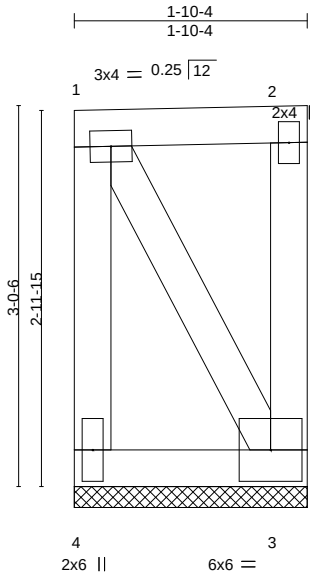

Scale = 1:18.3

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=58(LC 50)
Max Uplift 4=-594(LC 44), 3=-583(LC 47)
Max Grav 4=634(LC 51), 3=621(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-619/630, 1-2=-309/310
BOT CHORD 3-4=-375/376
WEBS 1-3=-757/761

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 594 lb uplift at joint 4 and 583 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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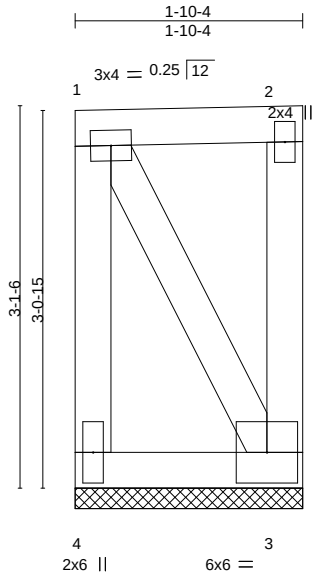
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B20	Blocking	1	1	I51408837
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:51 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-5DbfsEjQAefznc?frwU0G89YG1APB8y_WF3d?WzQTOU



Scale = 1:18.8

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=60(LC 46)
Max Uplift 4=-614(LC 44), 3=-603(LC 47)
Max Grav 4=654(LC 51), 3=640(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-639/654, 1-2=-309/311
BOT CHORD 3-4=-378/379
WEBS 1-3=-778/783

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 614 lb uplift at joint 4 and 603 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B21	Blocking	1	1	I51408838
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:52 2022 Page 1
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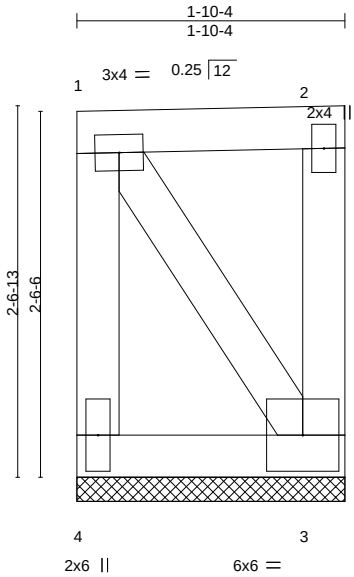

Scale: 3/4"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=49(LC 46)
Max Uplift 4=-486(LC 44), 3=-475(LC 47)
Max Grav 4=526(LC 51), 3=513(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-511/502, 1-2=-304/305
BOT CHORD 3-4=-360/360
WEBS 1-3=-643/646

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 486 lb uplift at joint 4 and 475 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B22	Blocking	1	1	I51408839
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:53 2022 Page 1
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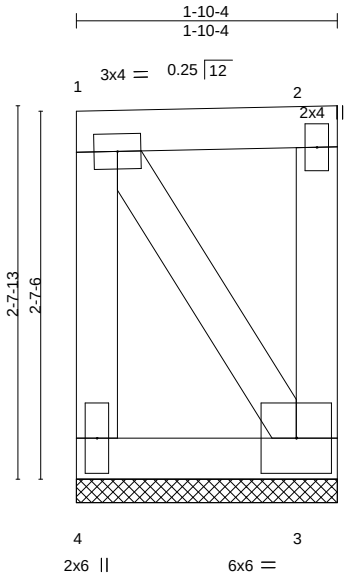

Scale = 1:16.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=50(LC 46)
Max Uplift 4=-505(LC 44), 3=-494(LC 47)
Max Grav 4=545(LC 51), 3=532(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-530/525, 1-2=-305/306
BOT CHORD 3-4=-362/363
WEBS 1-3=-662/666

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 505 lb uplift at joint 4 and 494 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B23	Blocking	1	1	I51408840
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:54 2022 Page 1
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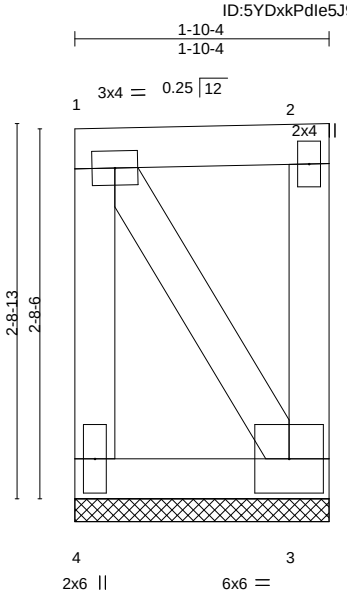

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=52(LC 50)
Max Uplift 4=-525(LC 44), 3=-514(LC 47)
Max Grav 4=565(LC 51), 3=551(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-549/548, 1-2=-306/307
BOT CHORD 3-4=-365/366
WEBS 1-3=-682/686

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 525 lb uplift at joint 4 and 514 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B24	Blocking	1	1	I51408841
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:55 2022 Page 1
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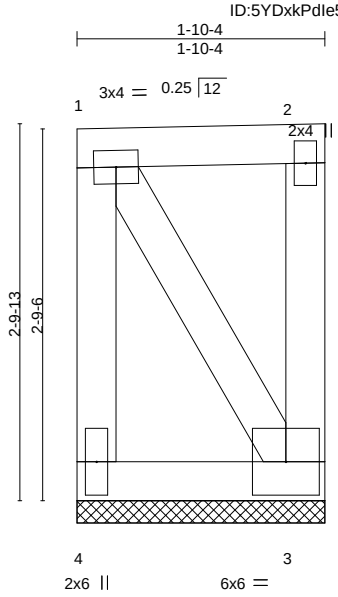

Scale = 1:17.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=54(LC 46)
Max Uplift 4=-544(LC 44), 3=-533(LC 47)
Max Grav 4=584(LC 51), 3=571(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-569/571, 1-2=-307/308
BOT CHORD 3-4=-368/369
WEBS 1-3=-703/707

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 544 lb uplift at joint 4 and 533 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B25	Blocking	1	1	I51408842
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:56 2022 Page 1
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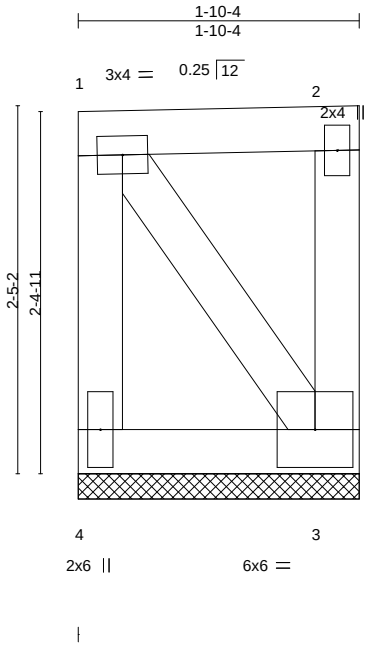

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=46(LC 46)
Max Uplift 4=-453(LC 44), 3=-443(LC 47)
Max Grav 4=494(LC 51), 3=480(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-478/464, 1-2=-303/304
BOT CHORD 3-4=-355/355
WEBS 1-3=-610/613

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 453 lb uplift at joint 4 and 443 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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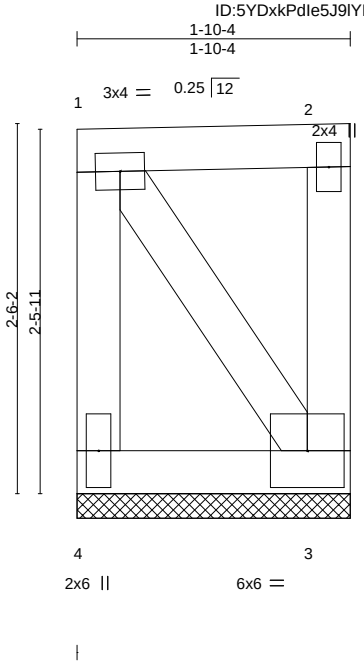
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B26	Blocking	1	1	I51408843
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:57 2022 Page 1

ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-vNyw7HnBmUQ6VXSpCBbQVPPcuSEtbrxsuBWyDAzQTOO



Scale = 1:15.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=47(LC 46)
Max Uplift 4=-473(LC 44), 3=-462(LC 47)
Max Grav 4=513(LC 51), 3=499(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-4=-497/487, 1-2=-304/305
BOT CHORD	3-4=-358/358
WEBS	1-3=-629/633

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 473 lb uplift at joint 4 and 462 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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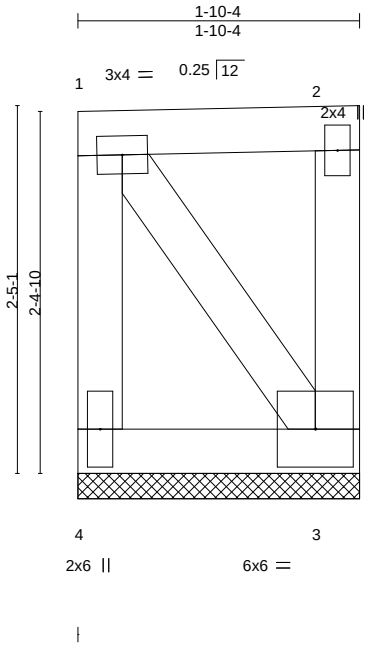
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	B27	Blocking	2	1	I51408844
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:41:58 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-NZWIKdopXoYz7h1?lu6f2dynmsZ7KIF07rFVldzQTON



Scale = 1:15.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=1-10-4, 3=1-10-4
Max Horz 4=45(LC 50)
Max Uplift 4=-452(LC 44), 3=-441(LC 47)
Max Grav 4=492(LC 51), 3=478(LC 48)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-476/462, 1-2=-303/304
BOT CHORD 3-4=-355/355
WEBS 1-3=-608/612

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 452 lb uplift at joint 4 and 441 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-4 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J1	Jack-Closed	38	1	I51408845
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:06 2022 Page 1
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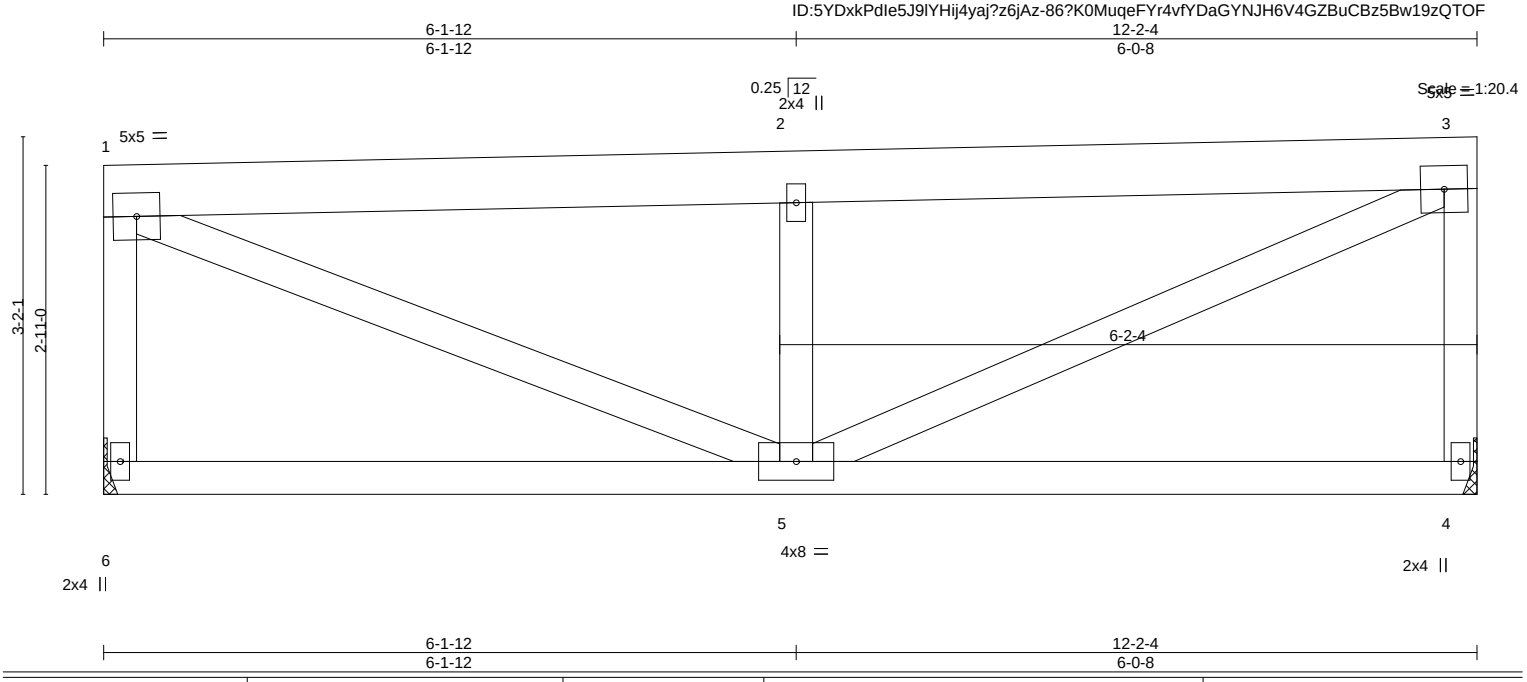

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 75 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=60(LC 14)
Max Grav 6=578(LC 21), 4=578(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-531/254, 1-2=-782/300, 2-3=-785/309, 3-4=-532/260
WEBS 1-5=-344/846, 2-5=-555/355, 3-5=-363/862

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J2	Jack-Closed	6	1	I51408846
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:07 2022 Page 1
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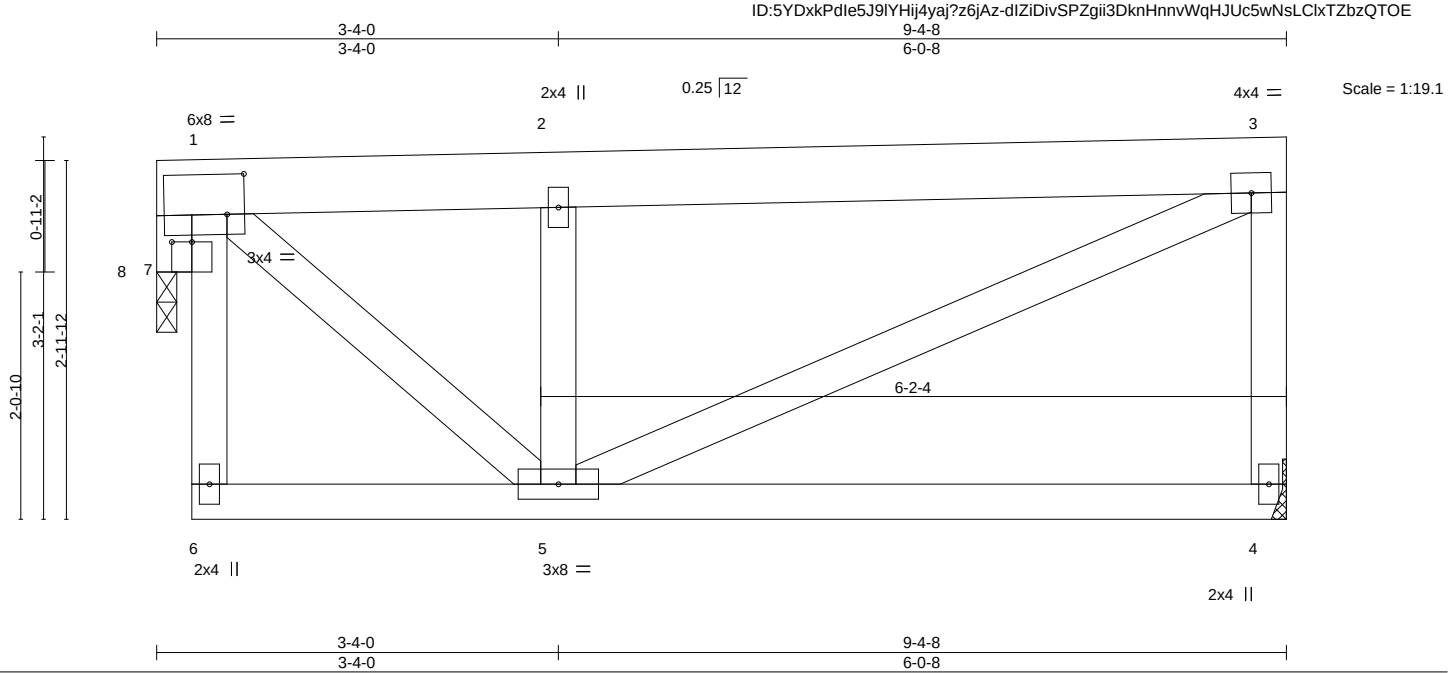

Plate Offsets (X,Y)-- [1:0-1-12,0-4-0], [7:0-2-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 61 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 8=0-2-0
Max Horz 8=57(LC 14)
Max Grav 4=444(LC 22), 8=411(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-452/242, 2-3=-457/250, 3-4=-395/230
WEBS 1-5=-279/573, 2-5=-481/347, 3-5=-237/500, 1-8=-441/193

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J4	Jack-Closed	56	1	I51408847
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:07 2022 Page 1
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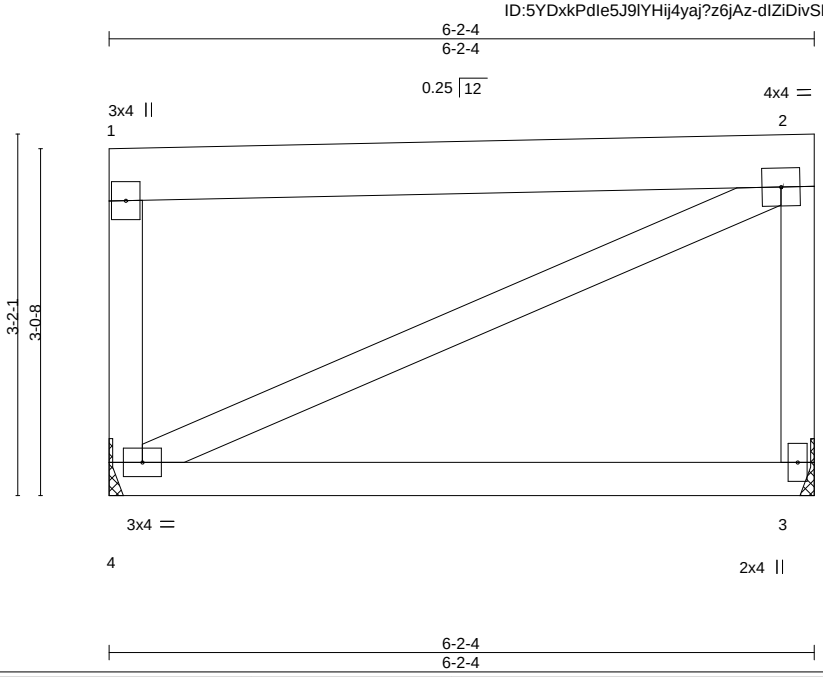

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	3-4	>976	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=60(LC 12)
Max Uplift 4=-1(LC 11)
Max Grav 4=287(LC 21), 3=287(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J5	Jack-Closed	9	1	I51408848
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:08 2022 Page 1
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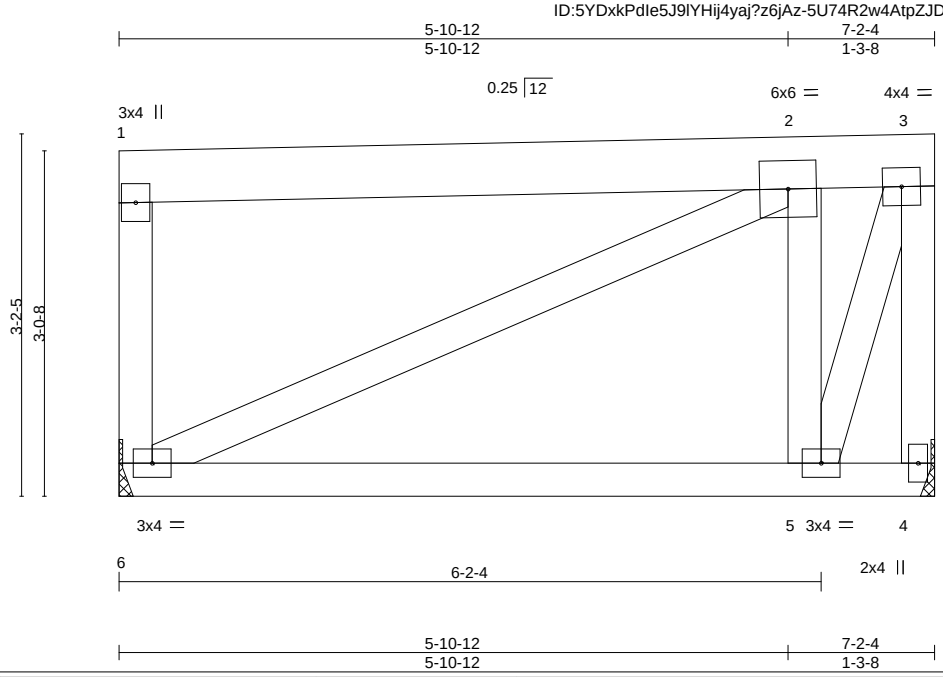

Scale = 1:20.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 51 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=60(LC 14)
Max Grav 6=335(LC 21), 4=335(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-388/150
WEBS 3-5=-330/620, 2-5=-442/411

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J6	Jack-Closed	5	1	I51408849
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:09 2022 Page 1
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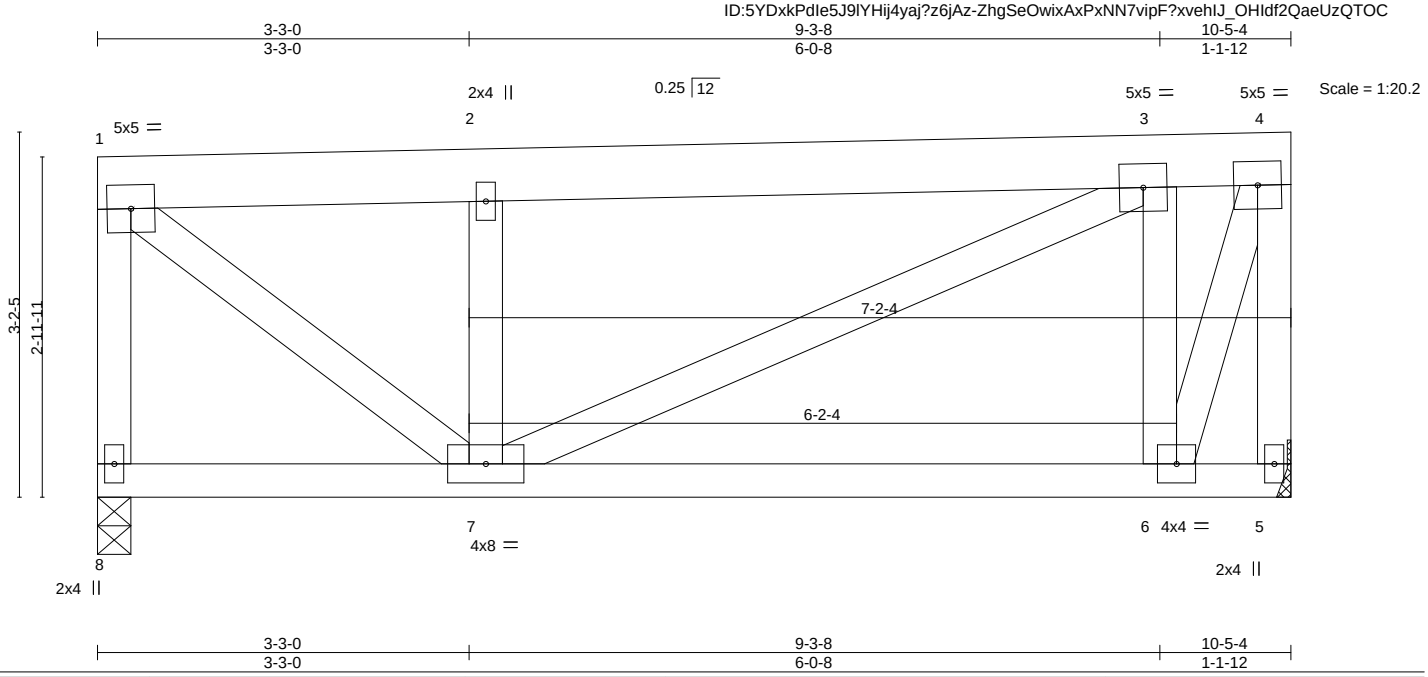

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 72 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Horz 8=60(LC 14)
Max Grav 8=493(LC 21), 5=493(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-474/225, 1-2=-485/212, 2-3=-489/219, 4-5=-529/193
WEBS 1-7=-275/620, 2-7=-401/272, 3-7=-159/273, 3-6=-551/367, 4-6=-308/708

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J7	Jack-Closed	4	1	I51408850
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:10 2022 Page 1
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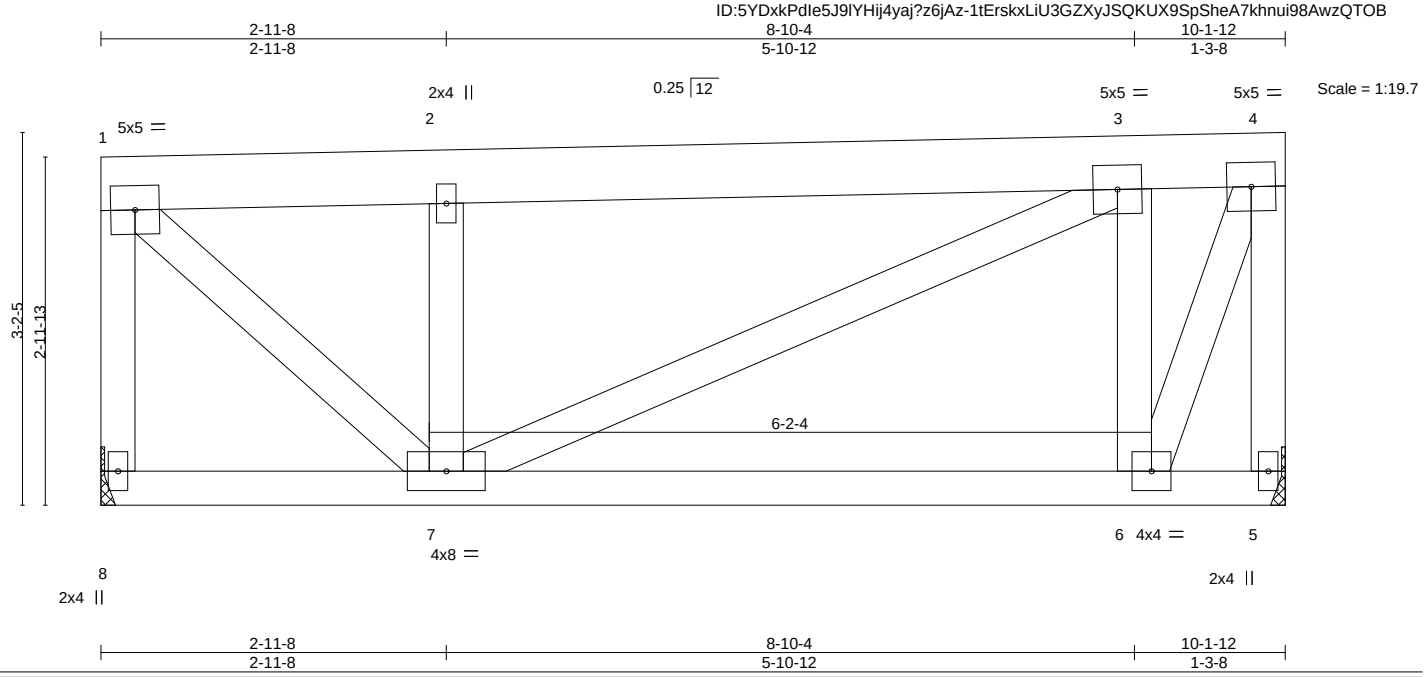

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 71 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Horz 8=60(LC 12)
Max Grav 8=479(LC 21), 5=479(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-466/219, 1-2=-437/197, 2-3=-441/204, 3-4=-257/140, 4-5=-508/197
BOT CHORD 6-7=-136/253
WEBS 1-7=-267/595, 2-7=-390/268, 3-6=-510/350, 4-6=-299/671

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	J8	Jack-Closed	1	1	I51408851
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:10 2022 Page 1
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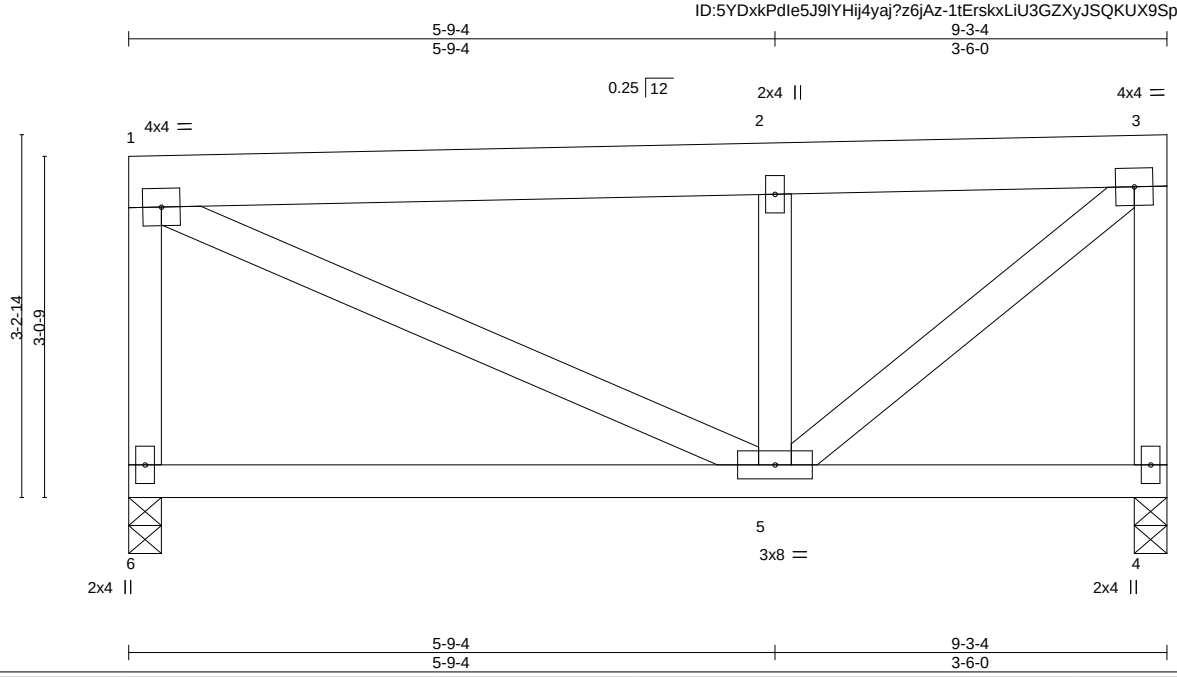

Scale = 1:20.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 61 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=61(LC 12)
Max Grav 6=436(LC 21), 4=436(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-389/233, 1-2=-419/195, 2-3=-420/202, 3-4=-418/222
WEBS 1-5=-236/461, 2-5=-439/314, 3-5=-274/547

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M2	Monopitch	1	1	I51408852
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:41 2022 Page 1
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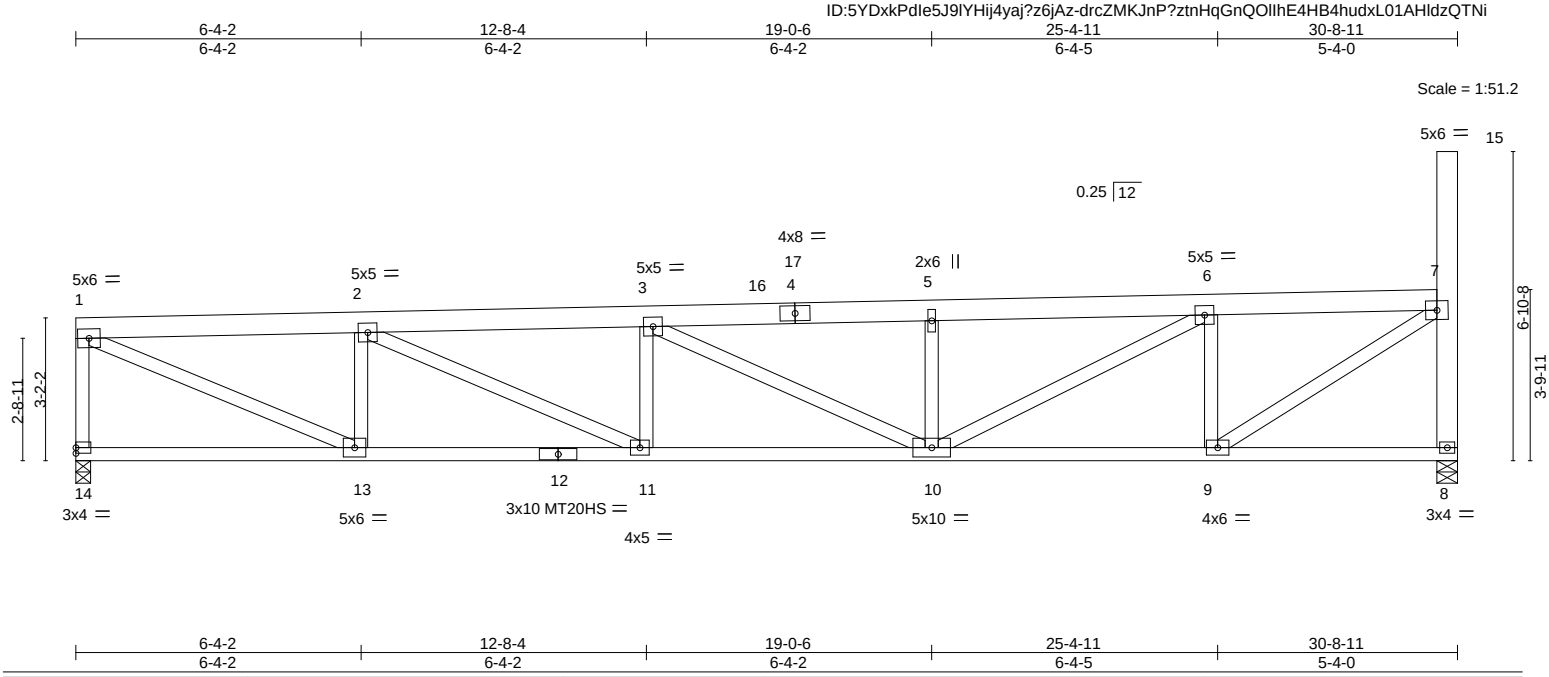

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.19	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.39	10-11	>924	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=191(LC 12)
Max Grav 14=1521(LC 21), 8=1707(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1460/314, 1-2=-2663/493, 2-3=-3754/728, 3-5=-3523/733, 5-6=-3523/738, 6-7=-2150/545, 7-8=-1654/327
BOT CHORD 13-14=-291/191, 11-13=-657/2658, 10-11=-760/3747, 9-10=-343/2144
WEBS 1-13=-553/2867, 2-13=-1054/311, 2-11=-253/1200, 3-11=-379/181, 3-10=-255/124, 5-10=-496/190, 6-10=-357/1558, 6-9=-1247/315, 7-9=-443/2485

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-5-15, Corner(3) 15-5-15 to 30-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M2G	Roof Special Girder	2	1	I51408853
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:49 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ON5a13PoWTzkkWRpF6XdcNZSEQsImEbWsH6i19zQTNa

6-4-2	12-8-4	19-0-6	25-4-11	30-8-11
6-4-2	6-4-2	6-4-2	6-4-5	5-4-0

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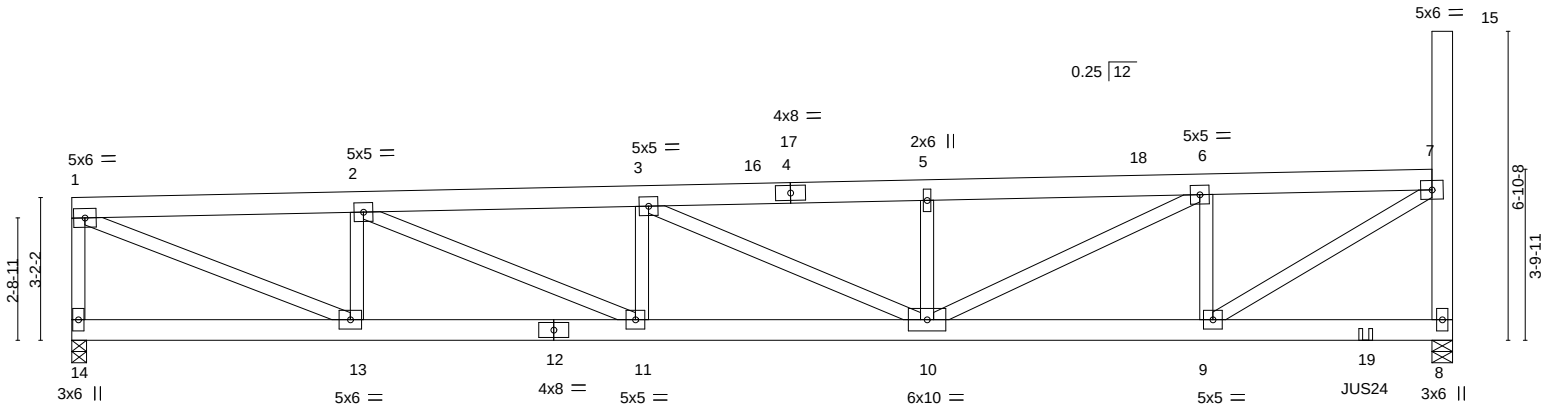

6-4-2	12-8-4	19-0-6	25-4-11	30-8-11
6-4-2	6-4-2	6-4-2	6-4-5	5-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.18	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.36	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 223 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-8 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=189(LC 12)
Max Grav 14=1537(LC 21), 8=1898(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1465/313, 1-2=-2760/511, 2-3=-3916/762, 3-5=-3693/768, 5-6=-3693/773, 6-7=-2338/589, 7-8=-1732/345
BOT CHORD 13-14=-292/182, 11-13=-673/2755, 10-11=-790/3910, 9-10=-389/2330
WEBS 1-13=-562/2949, 2-13=-1070/315, 2-11=-269/1266, 3-11=-389/182, 3-10=-261/136, 5-10=-489/190, 6-10=-378/1531, 6-9=-1268/324, 7-9=-486/2649

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 15-5-15, Corner(3) 15-5-15 to 30-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 28-9-8 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-70, 8-14=-20

April 15,2022

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 19=-146(B)
Trapezoidal Loads (plf)
Vert: 18=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(B)
Trapezoidal Loads (plf)
Vert: 18=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-67, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(B)
Trapezoidal Loads (plf)
Vert: 18=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-117(B)
Trapezoidal Loads (plf)
Vert: 18=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-146(B)
Trapezoidal Loads (plf)
Vert: 18=-79-to-7=-159
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-146(B)
Trapezoidal Loads (plf)
Vert: 18=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 19=58(B)
Trapezoidal Loads (plf)
Vert: 18=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 19=58(B)
Trapezoidal Loads (plf)
Vert: 18=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 19=58(B)
Trapezoidal Loads (plf)
Vert: 18=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 19=58(B)
Trapezoidal Loads (plf)
Vert: 18=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-146(B)

Continued on page 3

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 18=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 19=-134(B)
Trapezoidal Loads (plf)
Vert: 18=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 19=-134(B)
Trapezoidal Loads (plf)
Vert: 18=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 19=-134(B)
Trapezoidal Loads (plf)
Vert: 18=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-18=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 19=-134(B)
Trapezoidal Loads (plf)
Vert: 18=-57-to-7=-117

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M3	Monopitch	6	1	I51408854
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:50 2022 Page 1
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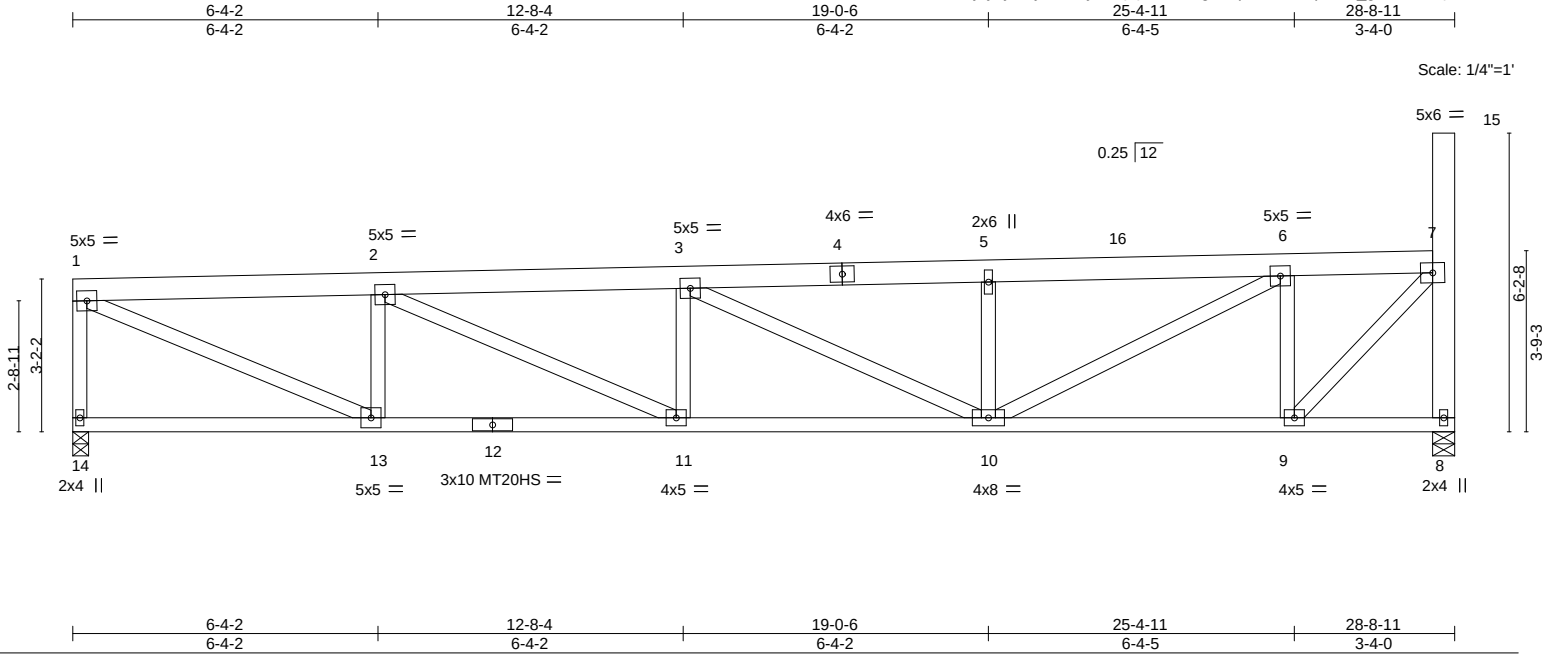

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.16	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.33	10-11	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 188 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-13 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=167(LC 12)
Max Grav 14=1425(LC 21), 8=1653(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1365/314, 1-2=-2466/485, 2-3=-3371/692, 3-5=-2993/655, 5-6=-2993/661, 6-7=-1433/405, 7-8=-1626/309
BOT CHORD 13-14=-260/170, 11-13=-635/2460, 10-11=-727/3365, 9-10=-227/1428
WEBS 1-13=-544/2652, 2-13=-965/308, 2-11=-222/996, 3-11=-294/167, 3-10=-424/156, 5-10=-523/203, 6-10=-407/1769, 6-9=-1359/315, 7-9=-349/2017

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-79-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M4	Monopitch	9	1	I51408855
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:51 2022 Page 1
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6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

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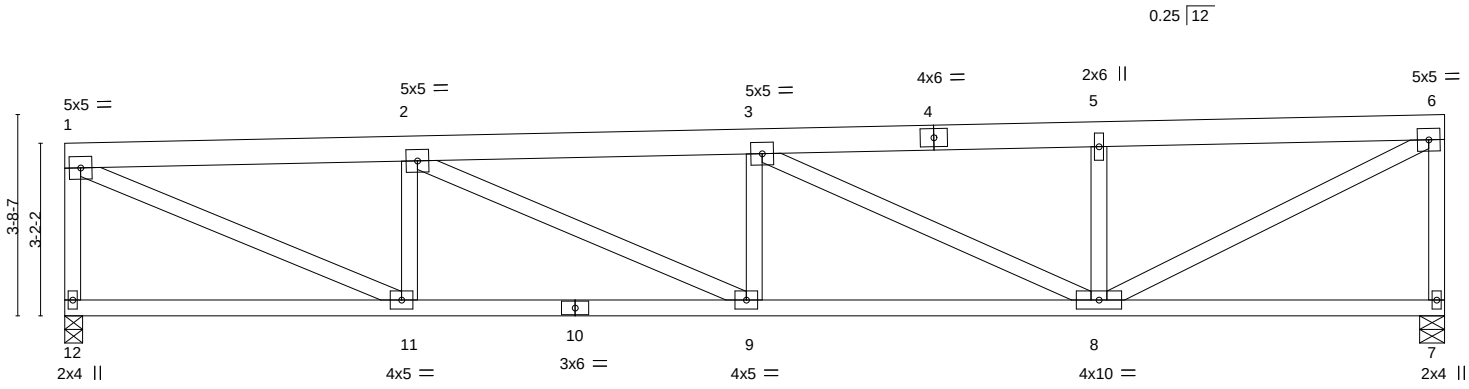

6-4-2 | 12-8-4 | 19-0-6 | 25-4-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.11	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23	9-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.

REACTIONS. (size) 12=0-3-15, 7=0-5-8
Max Horz 12=71(LC 14)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1175/301, 1-2=-2069/461, 2-3=-2610/572, 3-5=-1913/436, 5-6=-1914/442, 6-7=-1176/306
BOT CHORD 9-11=-525/2064, 8-9=-620/2604
WEBS 1-11=-497/2220, 2-11=-786/289, 2-9=-137/594, 3-8=-773/186, 5-8=-537/233, 6-8=-486/2129

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M4A	Monopitch	5	1	I51408856
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:51 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-KmDKSlR224DSzqbBMXZ5ioeoVDVOE8EpJbbo62zQTNY

6-4-2 | 12-8-4 | 19-0-6 | 25-4-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-6

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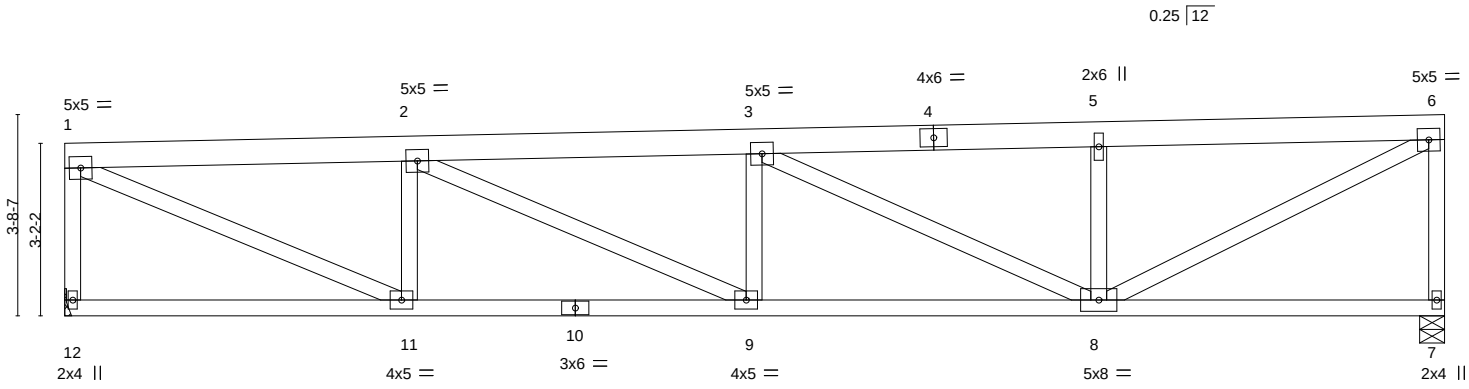

6-4-2 | 12-8-4 | 19-0-6 | 25-4-12
6-4-2 | 6-4-2 | 6-4-2 | 6-4-6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.11	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23	9-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=71(LC 12)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1175/301, 1-2=-2070/461, 2-3=-2611/572, 3-5=-1914/436, 5-6=-1915/442, 6-7=-1177/306
BOT CHORD 9-11=-525/2065, 8-9=-620/2605
WEBS 1-11=-497/2221, 2-11=-787/289, 2-9=-137/595, 3-8=-773/186, 5-8=-537/233, 6-8=-486/2131

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

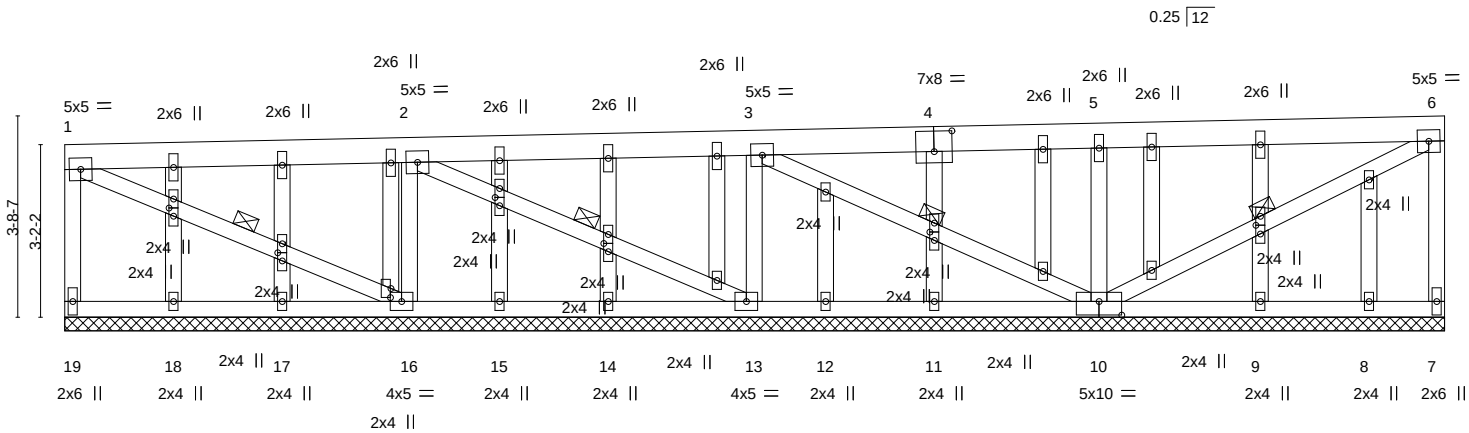
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M4S	GABLE	3	1	I51408857
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:54 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-lLuT5nTxL?b1rHJm1f7oJRGIRQe2RapF?YpTjNzQTNV

6-4-2 | 12-8-4 | 19-0-6 | 25-4-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

Scale = 1:42.4



6-4-2 | 12-8-4 | 19-0-6 | 25-4-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0], [16:0-2-0,0-0-2], [20:0-1-13,0-1-0], [22:0-1-13,0-1-0], [25:0-1-13,0-1-0], [27:0-1-13,0-1-0], [32:0-1-14,0-1-0], [38:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS	1 Row at midpt 1-16, 2-13, 3-10, 6-10

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 19=71(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 10, 8 except 19=-687(LC 44), 7=-630(LC 53)
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 15, 14, 12, 11, 9, 8 except 19=761(LC 51), 7=702(LC 64), 16=573(LC 21), 13=516(LC 21), 10=654(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-734/716, 1-2=-1413/1393, 2-3=-1438/1433, 3-5=-1362/1361, 5-6=-1194/1197, 6-7=-697/687
BOT CHORD	18-19=-466/453, 17-18=-866/853, 16-17=-1335/1322, 14-15=-649/644, 13-14=-1186/1182, 11-12=-555/551, 10-11=-1162/1158, 9-10=-1262/1267, 8-9=-668/673, 7-8=-268/273
WEBS	1-16=-1546/1555, 2-16=-906/824, 2-13=-1424/1427, 3-13=-834/790, 3-10=-1333/1331, 5-10=-548/238, 6-10=-1364/1346

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 10, 8 except (jt=lb) 19=687, 7=630.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

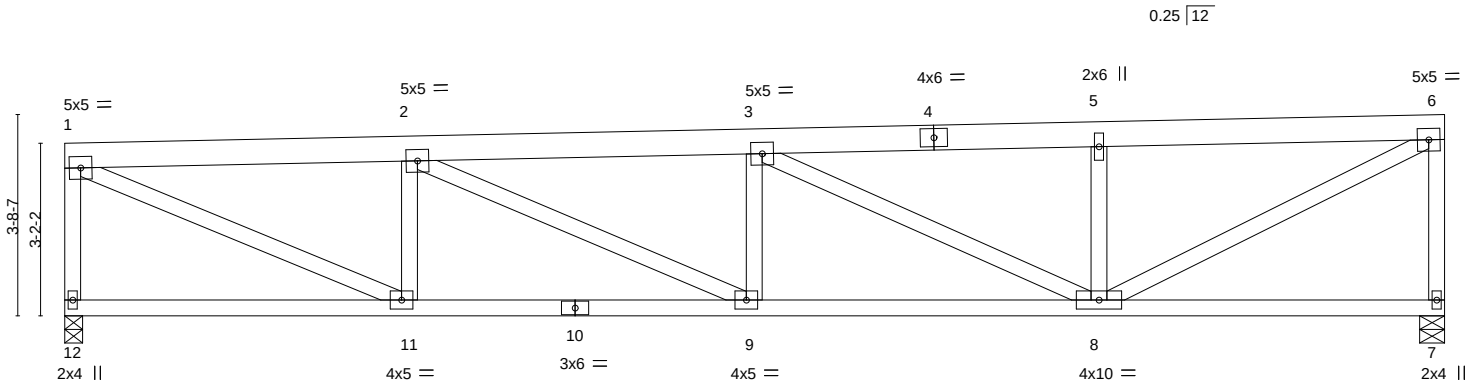
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M5	Monopitch	5	1	I51408858
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:56 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-hj0DVTVBscsl4bT9949GOsMfEECZvPSYTsJZnFzQTNT

6-4-2 | 12-8-4 | 19-0-6 | 25-4-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

Scale = 1:42.4



6-4-2 | 12-8-4 | 19-0-6 | 25-4-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.11	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23	9-11	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.

REACTIONS. (size) 12=0-3-15, 7=0-5-8
Max Horz 12=71(LC 12)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1175/301, 1-2=-2069/461, 2-3=-2610/572, 3-5=-1913/436, 5-6=-1913/442, 6-7=-1176/306
BOT CHORD 9-11=-525/2064, 8-9=-620/2604
WEBS 1-11=-497/2220, 2-11=-786/289, 2-9=-137/594, 3-8=-773/186, 5-8=-537/233, 6-8=-486/2129

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

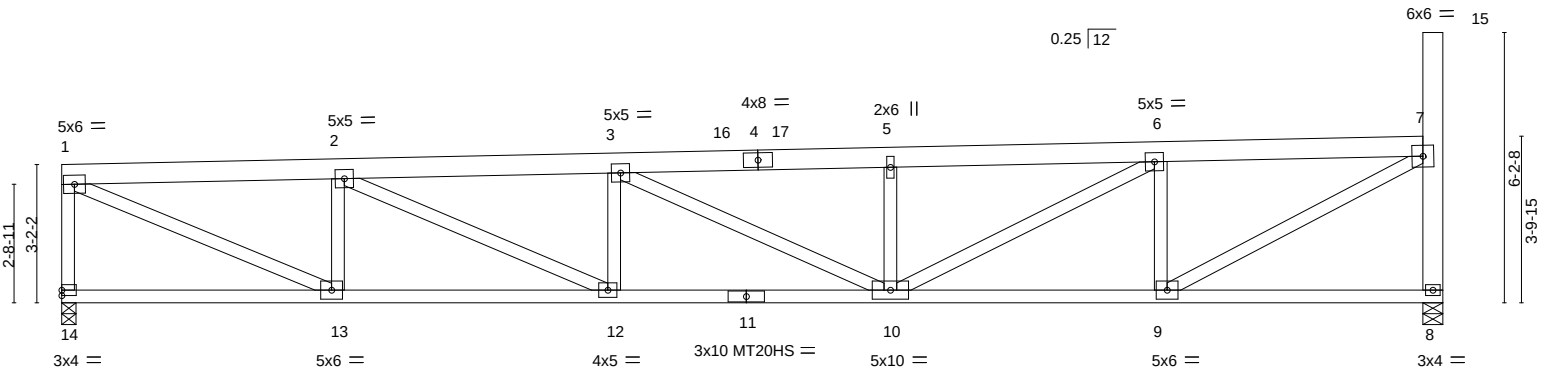
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6	Monopitch	28	1	I51408859
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:57 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-9wacjpWpdw_cil2LjngVx3uozeXuerOihW27KizQTNS

6-4-2	12-8-4	19-0-7	25-4-11	31-8-11
6-4-2	6-4-2	6-4-2	6-4-4	6-4-0

Scale = 1:52.9



6-4-2	12-8-4	19-0-7	25-4-11	31-8-11
6-4-2	6-4-2	6-4-2	6-4-4	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>849	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-11 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=167(LC 12)
Max Grav 14=1578(LC 21), 8=1795(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1516/305, 1-2=-2783/477, 2-3=-3982/707, 3-5=-3844/717, 5-6=-3844/722, 6-7=-2583/546, 7-8=-1731/320
BOT CHORD 12-13=-633/2777, 10-12=-761/3976, 9-10=-413/2575
WEBS 1-13=-535/2996, 2-13=-1108/305, 2-12=-247/1320, 3-12=-429/179, 5-10=-483/179, 6-10=-305/1433, 6-9=-1252/315, 7-9=-484/2840

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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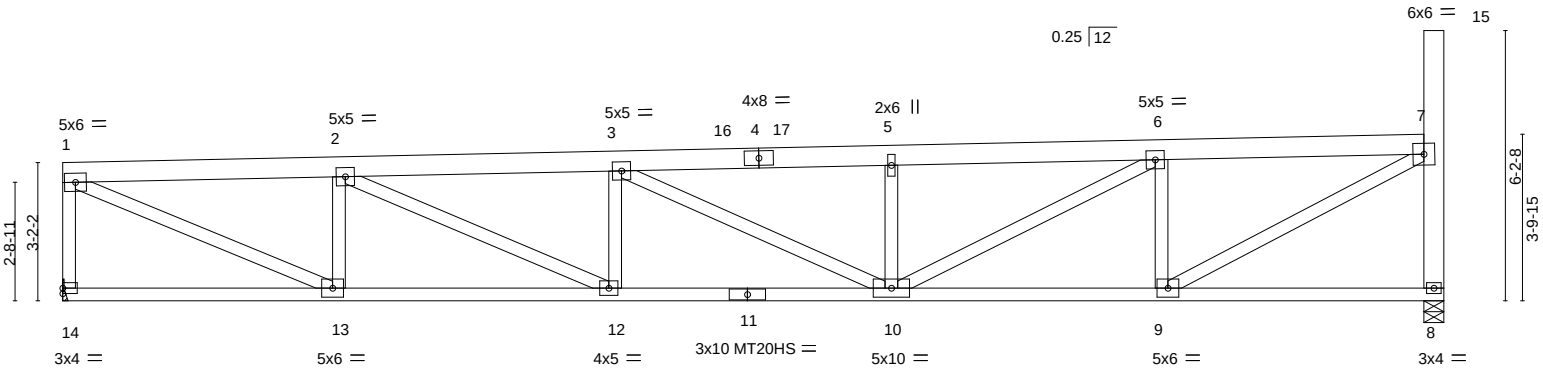
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6A	Monopitch	8	1	I51408860
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:58 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-d68_w8WROE6SJvdXGVBkUHRzh2t7NIerwAogs8zQTNR

6-4-2	12-8-5	19-0-7	25-4-11	31-8-12
6-4-2	6-4-2	6-4-2	6-4-4	6-4-1

Scale = 1:52.9



6-4-2	12-8-5	19-0-7	25-4-11	31-8-12
6-4-2	6-4-2	6-4-2	6-4-4	6-4-1

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>848	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-10 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=167(LC 12)
Max Grav 14=1578(LC 21), 8=1795(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1517/305, 1-2=-2784/477, 2-3=-3984/707, 3-5=-3846/717, 5-6=-3845/722, 6-7=-2585/546, 7-8=-1731/320
BOT CHORD 12-13=-633/2778, 10-12=-761/3977, 9-10=-413/2578
WEBS 1-13=-536/2998, 2-13=-1108/305, 2-12=-247/1321, 3-12=-429/179, 5-10=-483/179, 6-10=-304/1432, 6-9=-1252/315, 7-9=-485/2842

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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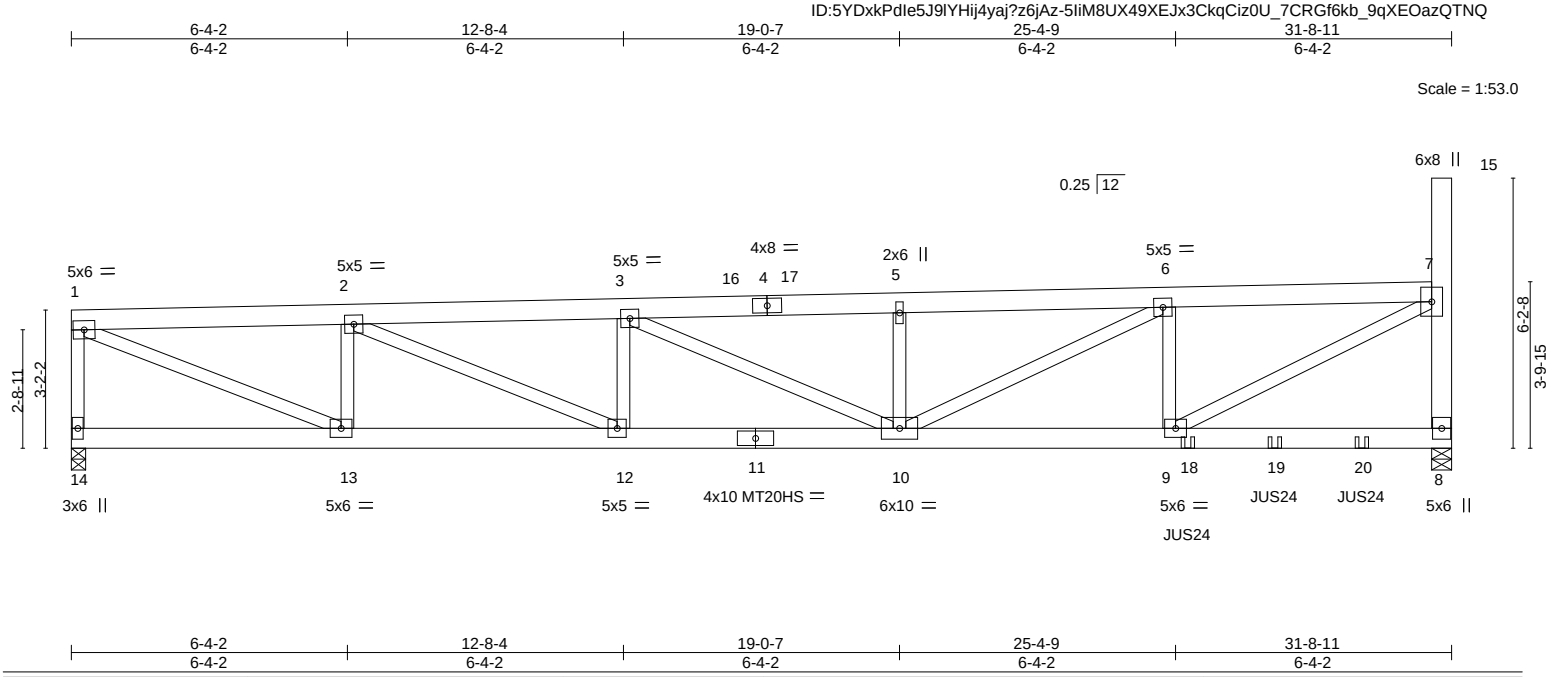
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6AG	Roof Special Girder	1	1	I51408861
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:59 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-5liM8UX49XEJx3CkqCiz0U_7CRGf6kb_9qXEOazQTNQ



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.23	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.43	10-12	>874	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 228 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 8-15: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-4-10 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=165(LC 12)
Max Uplift 8=-112(LC 15)
Max Grav 14=1632(LC 21), 8=2181(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1559/326, 1-2=-2963/542, 2-3=-4310/832, 3-5=-4243/880, 5-6=-4242/885, 6-7=-3093/769, 7-8=-1937/422
BOT CHORD	13-14=-252/156, 12-13=-695/2958, 10-12=-883/4303, 9-10=-635/3085
WEBS	1-13=-595/3168, 2-13=-1160/329, 2-12=-312/1475, 3-12=-469/197, 5-10=-482/180, 6-10=-399/1299, 6-9=-1171/363, 7-9=-711/3337

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=112.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 25-7-15 from the left end to 29-7-15 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-117(B) 19=-117(B) 20=-117(B)
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 18=-146(B) 19=-146(B) 20=-146(B)
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 18=57(B) 19=58(B) 20=59(B)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 18=57(B) 19=58(B) 20=59(B)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 18=57(B) 19=58(B) 20=59(B)
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 18=57(B) 19=58(B) 20=59(B)
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 18=-146(B) 19=-146(B) 20=-146(B)
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 18=-132(B) 19=-133(B) 20=-134(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 18=-132(B) 19=-133(B) 20=-134(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 18=-132(B) 19=-133(B) 20=-134(B)
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 18=-132(B) 19=-133(B) 20=-134(B)
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

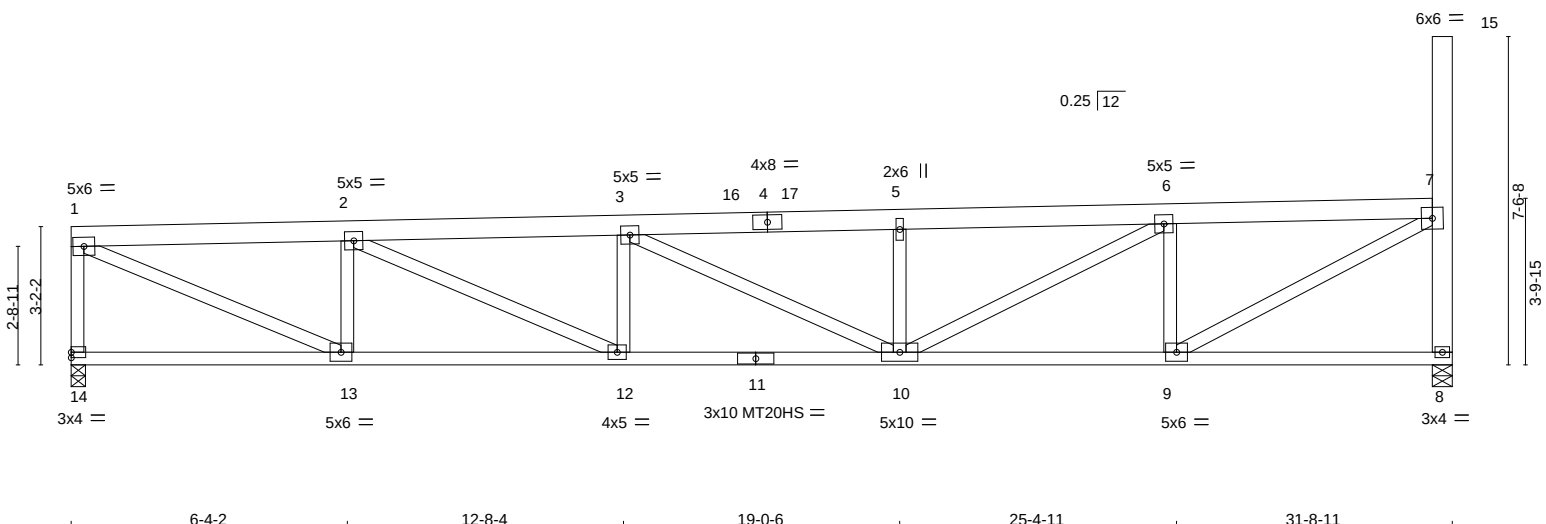
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6B	Monopitch	4	1	I51408862
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:00 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ZVGkLqYiwrMAZCnwOwECZiWJCrZbrC88OUHnw1zQTNP

6-4-2	12-8-4	19-0-6	25-4-11	31-8-11
6-4-2	6-4-2	6-4-2	6-4-5	6-4-0

Scale = 1:52.9



6-4-2	12-8-4	19-0-6	25-4-11	31-8-11
6-4-2	6-4-2	6-4-2	6-4-5	6-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>849	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=215(LC 12)
Max Grav 14=1578(LC 21), 8=1795(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1516/316, 1-2=-2782/500, 2-3=-3982/751, 3-5=-3845/780, 5-6=-3844/785, 6-7=-2583/630, 7-8=-1731/337
BOT CHORD 13-14=-324/214, 12-13=-674/2777, 10-12=-770/3976, 9-10=-404/2575
WEBS 1-13=-560/2996, 2-13=-1108/315, 2-12=-271/1320, 3-12=-429/189, 5-10=-484/183, 6-10=-340/1433, 6-9=-1252/316, 7-9=-490/2840

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

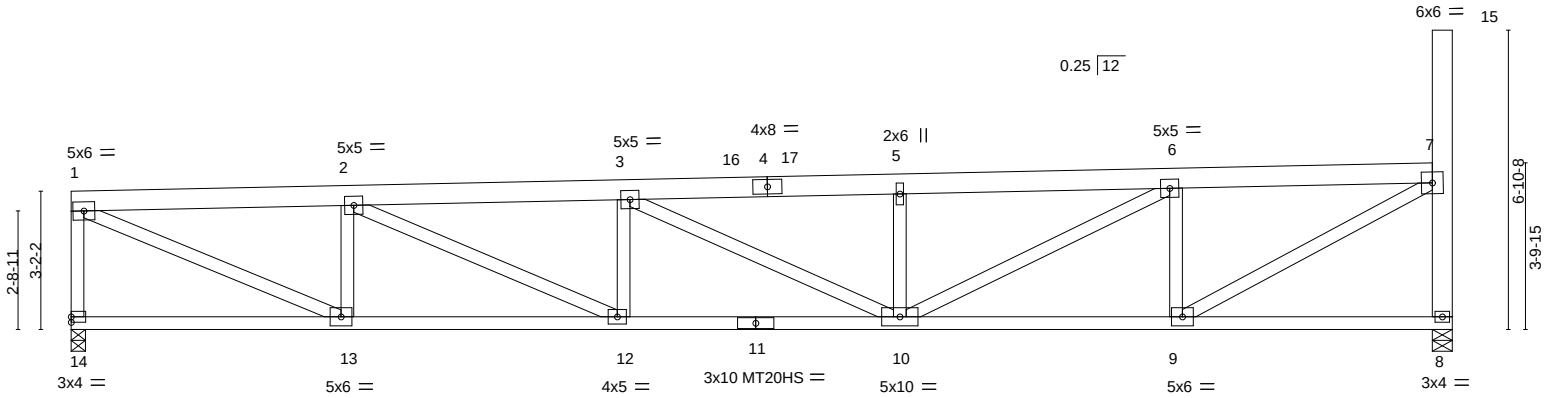
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6C	Monopitch	5	1	I51408863
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:01 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-1hq6ZAZKh9U1AMM6ydlR5v3UJFutafPHc80KTTzQTNO

6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

Scale = 1:52.9



6-4-2 | 12-8-4 | 19-0-7 | 25-4-9 | 31-8-11
6-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 6-4-2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>852	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 204 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=191(LC 12)
Max Grav 14=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1516/310, 1-2=-2781/488, 2-3=-3978/728, 3-5=-3843/747, 5-6=-3843/753, 6-7=-2538/580, 7-8=-1728/327
BOT CHORD 13-14=-287/189, 12-13=-654/2776, 10-12=-767/3972, 9-10=-383/2530
WEBS 1-13=-547/2995, 2-13=-1107/309, 2-12=-258/1318, 3-12=-428/183, 5-10=-492/184, 6-10=-329/1476, 6-9=-1258/316, 7-9=-482/2808

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6CS	GABLE	1	1	I51408864
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:05 2022 Page 1
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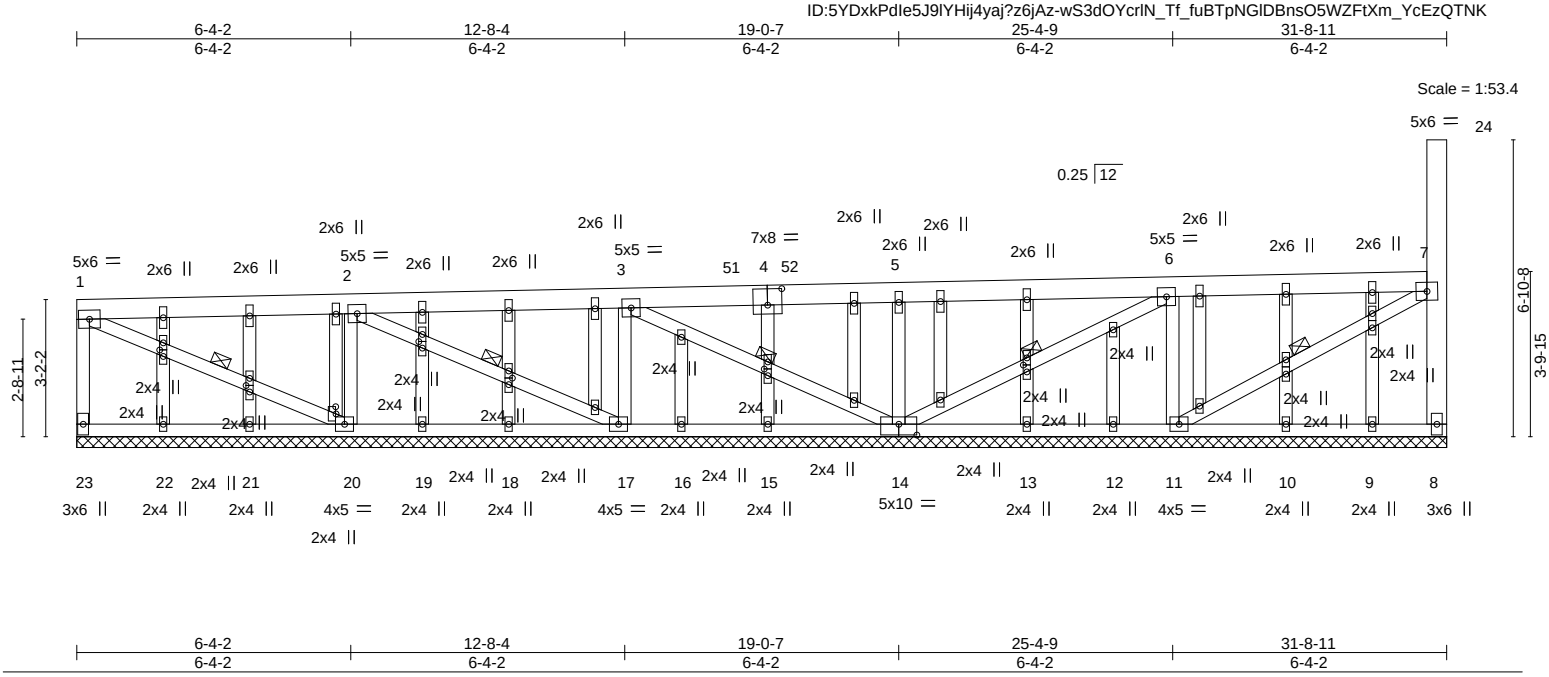

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [14:0-5-0,0-3-0], [20:0-2-0,0-0-2], [25:0-1-13,0-1-0], [27:0-1-13,0-1-0], [30:0-1-13,0-1-0], [32:0-1-13,0-1-0], [37:0-1-14,0-1-0], [43:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.02	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 259 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-24: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-3 oc bracing.
WEBS	1 Row at midpt 1-20, 2-17, 3-14, 6-14, 7-11

REACTIONS. All bearings 31-8-11.
(lb) - Max Horz 23=191(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 20, 17, 14, 9 except 23=-709(LC 44), 8=-764(LC 47), 11=-205(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 22, 21, 19, 18, 16, 15, 13, 12, 10, 9 except 23=784(LC 51), 8=855(LC 36), 20=575(LC 21), 17=536(LC 21), 14=616(LC 21), 11=665(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-752/702, 1-2=-1458/1437, 2-3=-1530/1477, 3-5=-1446/1385, 5-6=-1353/1305, 6-7=-1472/1408, 7-8=-813/852
BOT CHORD	22-23=-644/514, 21-22=-1044/914, 20-21=-1513/1383, 19-20=-357/282, 18-19=-757/682, 17-18=-1295/1220, 16-17=-254/214, 15-16=-644/604, 14-15=-1251/1211, 13-14=-1246/1227, 12-13=-653/634, 11-12=-253/234, 10-11=-1245/1275, 9-10=-721/751, 8-9=-318/351
WEBS	1-20=-1572/1632, 2-20=-904/779, 2-17=-1421/1446, 3-17=-845/761, 3-14=-1332/1321, 5-14=-483/186, 6-14=-1381/1357, 6-11=-911/764, 7-11=-1578/1544

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 17, 14, 9 except (jt=lb) 23=709, 8=764, 11=205.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-11 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=13, 1-7=-9, 7-8=3, 7-24=27
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-3, 1-7=-3, 7-8=-13, 7-24=-27
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=10, 1-7=-9, 7-8=2, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-2, 1-7=-3, 7-8=-10, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-2=7200, 2-51=7200, 51-52=7200, 7-52=7200
   Drag: 8-23=-150
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-63, 8-23=-20
   Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 7-52=-7200
   Drag: 8-23=150
   Trapezoidal Loads (plf)
   Vert: 6=-63-to-7=-123

Continued on page 3

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LOAD CASE(S) Standard

36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-64, 8-23=-20
Horz: 1-2=7200, 2-51=7200, 51-52=7200, 7-52=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-64-to-7=-124

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-70, 8-23=-20
Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 7-52=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-130

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 8-23=-20
Horz: 1-2=7200, 2-51=7200, 51-52=7200, 7-52=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-36-to-7=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-42, 8-23=-20
Horz: 1-2=-7200, 2-51=-7200, 51-52=-7200, 7-52=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=13, 1-2=7191, 2-51=7191, 51-52=7191, 7-52=7191, 7-8=3, 7-24=27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=13, 1-2=-7209, 2-51=-7209, 51-52=-7209, 7-52=-7209, 7-8=3, 7-24=27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-3, 1-2=7197, 2-51=7197, 51-52=7197, 7-52=7197, 7-8=-13, 7-24=-27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-3, 1-2=-7203, 2-51=-7203, 51-52=-7203, 7-52=-7203, 7-8=-13, 7-24=-27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=10, 1-2=7191, 2-51=7191, 51-52=7191, 7-52=7191, 7-8=2, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=10, 1-2=-7209, 2-51=-7209, 51-52=-7209, 7-52=-7209, 7-8=2, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

Continued on page 4

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LOAD CASE(S) Standard

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-2, 1-2=7197, 2-51=7197, 51-52=7197, 7-52=7197, 7-8=-10, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-2, 1-2=-7203, 2-51=-7203, 51-52=-7203, 7-52=-7203, 7-8=-10, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6D	Monopitch	1	1	I51408865
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:07 2022 Page 1
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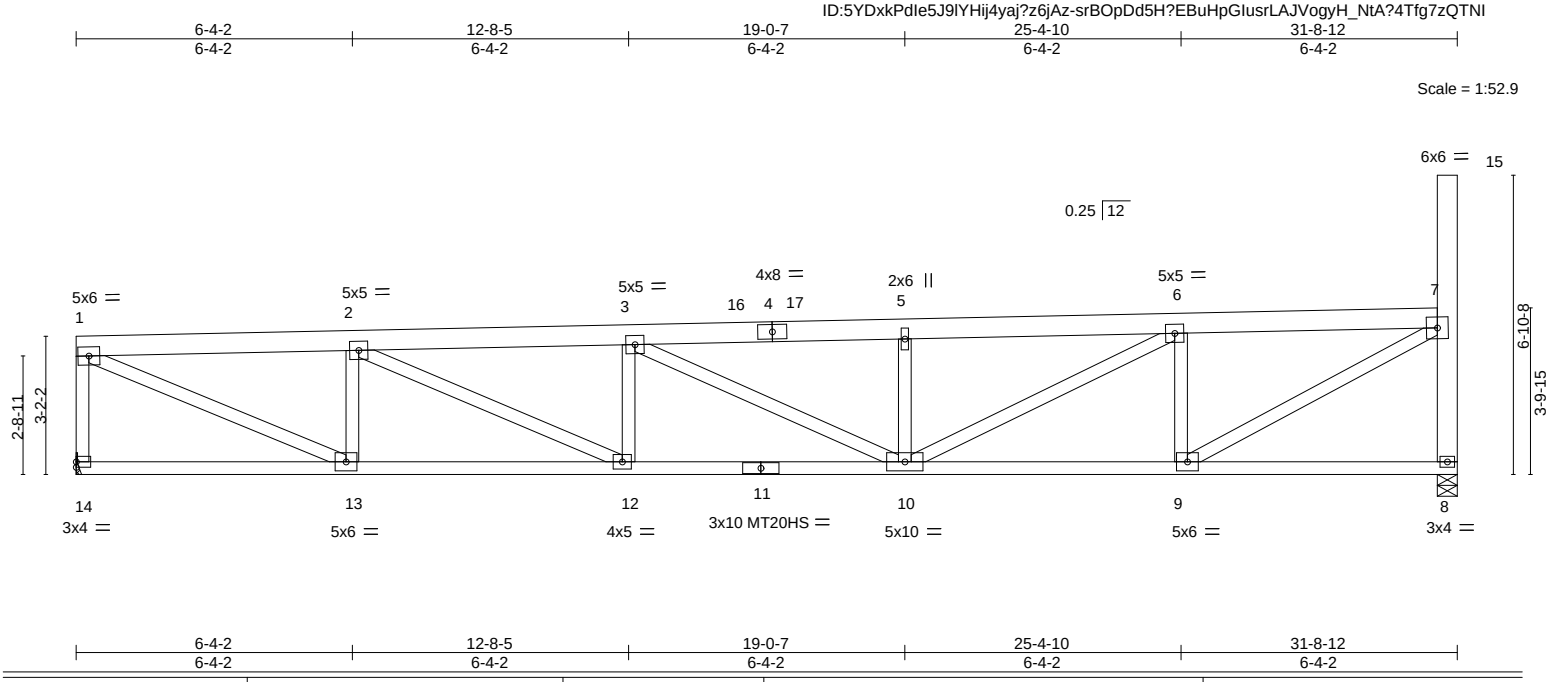

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>851	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=191(LC 12)
Max Grav 14=1577(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1516/310, 1-2=-2782/488, 2-3=-3980/728, 3-5=-3845/747, 5-6=-3844/753, 6-7=-2538/580, 7-8=-1728/327
BOT CHORD 13-14=-287/189, 12-13=-654/2777, 10-12=-767/3974, 9-10=-383/2531
WEBS 1-13=-547/2996, 2-13=-1108/309, 2-12=-258/1318, 3-12=-428/183, 5-10=-492/184, 6-10=-329/1477, 6-9=-1258/316, 7-9=-482/2809

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

April 15,2022

Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6E	Monopitch	1	1	I51408866
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:07 2022 Page 1
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6-4-2	12-8-5	19-0-7	25-4-11	31-8-12
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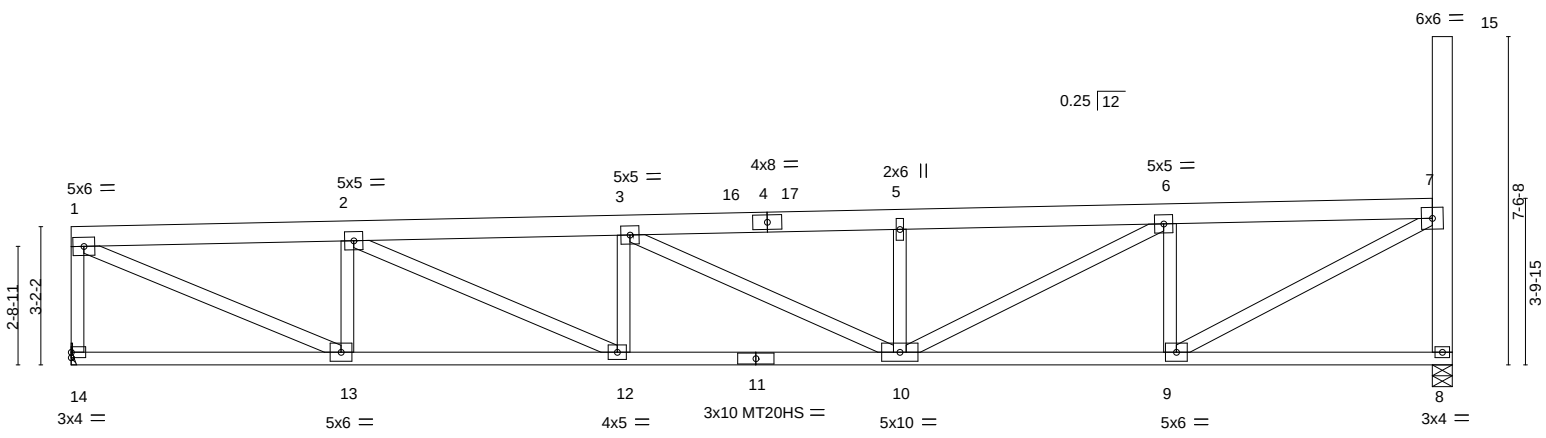

6-4-2	12-8-5	19-0-7	25-4-11	31-8-12
6-4-2	6-4-2	6-4-2	6-4-4	6-4-1

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.44	10-12	>848	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-2 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=215(LC 12)
Max Grav 14=1578(LC 21), 8=1795(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1517/316, 1-2=-2784/500, 2-3=-3984/752, 3-5=-3846/780, 5-6=-3845/785, 6-7=-2585/630, 7-8=-1731/337
BOT CHORD 13-14=-324/214, 12-13=-674/2778, 10-12=-771/3977, 9-10=-405/2578
WEBS 1-13=-560/2998, 2-13=-1108/315, 2-12=-271/1321, 3-12=-429/189, 5-10=-483/183, 6-10=-340/1432, 6-9=-1252/316, 7-9=-490/2842

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6G	ROOF SPECIAL GIRDER	1	2	I51408867
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:11 2022 Page 1
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6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

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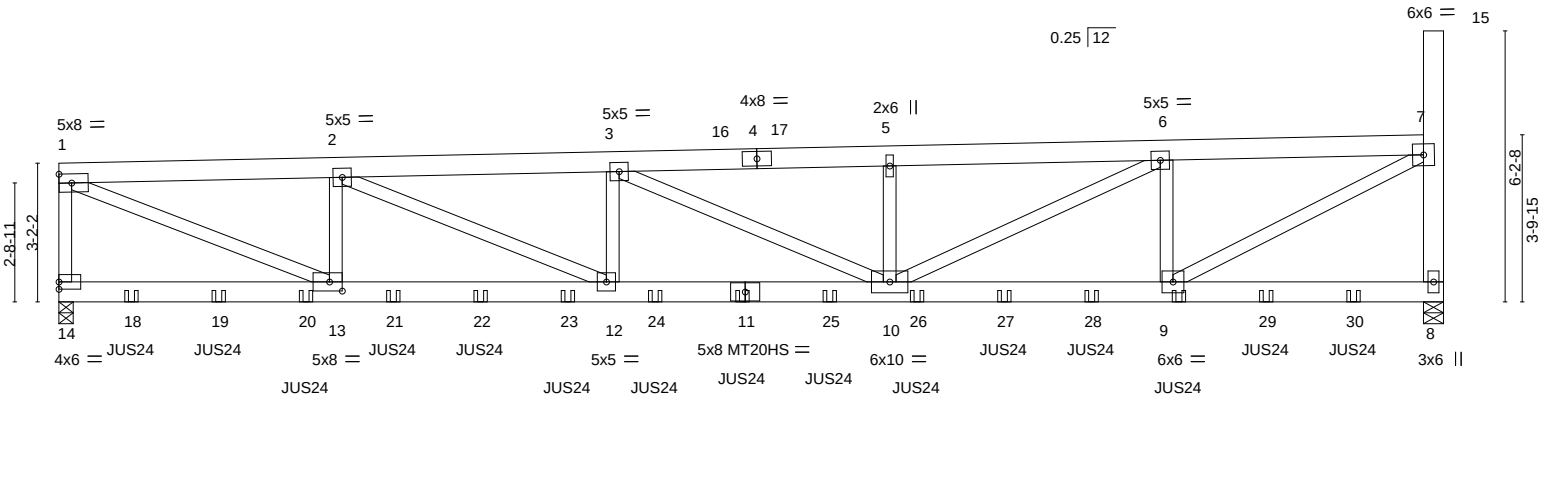

6-4-2	12-8-4	19-0-7	25-4-9	31-8-11
6-4-2	6-4-2	6-4-2	6-4-2	6-4-2

Plate Offsets (X,Y)-- [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.37	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.50	10-12	>752	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 456 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=165(LC 12)
Max Uplift 14=-485(LC 11), 8=-558(LC 15)
Max Grav 14=3926(LC 21), 8=3902(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3674/774, 1-2=-7135/1517, 2-3=-10176/2321, 3-5=-9737/2491, 5-6=-9737/2497, 6-7=-6212/1622, 7-8=-3670/882
BOT CHORD 13-14=-268/199, 12-13=-1670/7123, 10-12=-2372/10163, 9-10=-1486/6201
WEBS 1-13=-1642/7628, 2-13=-2478/563, 2-12=-876/3332, 3-12=-783/261, 3-10=-485/256, 5-10=-1007/185, 6-10=-1087/3958, 6-9=-2741/645, 7-9=-1681/6869

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=485, 8=558.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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NOTES-

13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-15 from the left end to 29-7-15 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-150, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-146(F) 9=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-146(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F) 27=-146(F) 28=-146(F) 29=-146(F) 30=-146(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-120, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-117(F) 9=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-117(F) 28=-117(F) 29=-117(F) 30=-117(F)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-127, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-117(F) 9=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-117(F) 28=-117(F) 29=-117(F) 30=-117(F)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-99, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-117(F) 9=-117(F) 18=-117(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-117(F) 24=-117(F) 25=-117(F) 26=-117(F) 27=-117(F) 28=-117(F) 29=-117(F) 30=-117(F)
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-160, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-146(F) 9=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-146(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F) 27=-146(F) 28=-146(F) 29=-146(F) 30=-146(F)
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-122, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-146(F) 9=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-146(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F) 27=-146(F) 28=-146(F) 29=-146(F) 30=-146(F)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-111, 8-14=-20
   Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Concentrated Loads (lb)
   Vert: 11=51(F) 9=57(F) 18=44(F) 19=45(F) 20=46(F) 21=47(F) 22=48(F) 23=49(F) 24=50(F) 25=52(F) 26=168(F) 27=54(F) 28=55(F) 29=58(F) 30=59(F)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-117, 8-14=-20
   Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Concentrated Loads (lb)
   Vert: 11=51(F) 9=57(F) 18=44(F) 19=45(F) 20=46(F) 21=47(F) 22=48(F) 23=49(F) 24=50(F) 25=52(F) 26=168(F) 27=54(F) 28=55(F) 29=58(F) 30=59(F)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-111, 8-14=-20
   Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Concentrated Loads (lb)
   Vert: 11=51(F) 9=57(F) 18=44(F) 19=45(F) 20=46(F) 21=47(F) 22=48(F) 23=49(F) 24=50(F) 25=52(F) 26=168(F) 27=54(F) 28=55(F) 29=58(F) 30=59(F)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-117, 8-14=-20
   Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Concentrated Loads (lb)
   Vert: 11=51(F) 9=57(F) 18=44(F) 19=45(F) 20=46(F) 21=47(F) 22=48(F) 23=49(F) 24=50(F) 25=52(F) 26=168(F) 27=54(F) 28=55(F) 29=58(F) 30=59(F)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-150, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-146(F) 9=-146(F) 18=-146(F) 19=-146(F) 20=-146(F) 21=-146(F) 22=-146(F) 23=-146(F) 24=-146(F) 25=-146(F) 26=-146(F) 27=-146(F) 28=-146(F) 29=-146(F) 30=-146(F)
53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-7=-111, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 11=-126(F) 9=-132(F) 18=-119(F) 19=-120(F) 20=-121(F) 21=-122(F) 22=-123(F) 23=-124(F) 24=-125(F) 25=-127(F) 26=-309(F) 27=-130(F) 28=-131(F) 29=-133(F) 30=-134(F)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-117, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 11=-126(F) 9=-132(F) 18=-119(F) 19=-120(F) 20=-121(F) 21=-122(F) 22=-123(F) 23=-124(F) 24=-125(F) 25=-127(F) 26=-309(F) 27=-130(F) 28=-131(F) 29=-133(F) 30=-134(F)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-111, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 11=-126(F) 9=-132(F) 18=-119(F) 19=-120(F) 20=-121(F) 21=-122(F) 22=-123(F) 23=-124(F) 24=-125(F) 25=-127(F) 26=-309(F) 27=-130(F) 28=-131(F) 29=-133(F) 30=-134(F)

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-7=-117, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 11=-126(F) 9=-132(F) 18=-119(F) 19=-120(F) 20=-121(F) 21=-122(F) 22=-123(F) 23=-124(F) 24=-125(F) 25=-127(F) 26=-309(F) 27=-130(F) 28=-131(F) 29=-133(F) 30=-134(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M6S	GABLE	1	1	I51408868
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:15 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-dNgPVyk6OSF2sWQpmZ?jgseuGuoXs4qLqKP4yfzQTNA

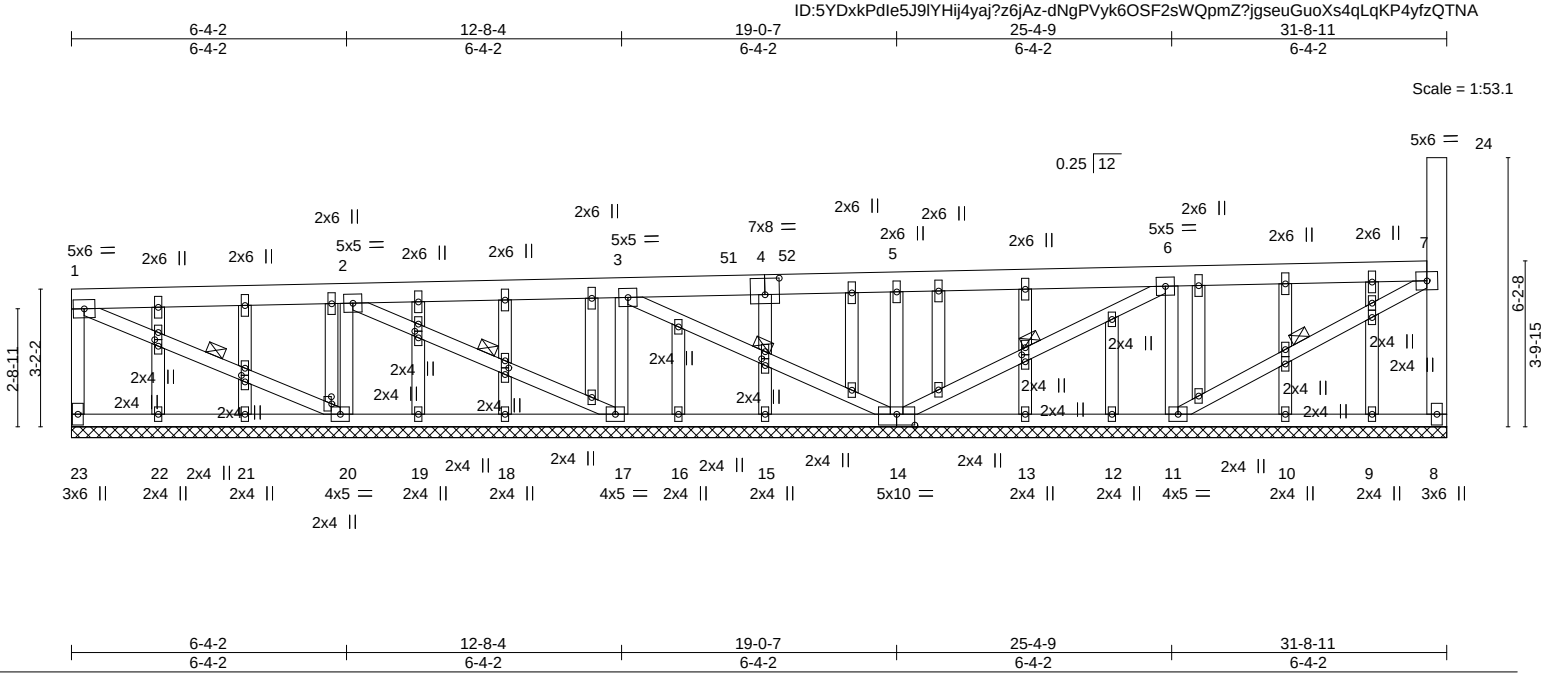

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [14:0-5-0,0-3-0], [20:0-2-0,0-0-2], [25:0-1-13,0-1-0], [27:0-1-13,0-1-0], [30:0-1-13,0-1-0], [32:0-1-13,0-1-0], [37:0-1-14,0-1-0], [43:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.02	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 258 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-24: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-14 oc bracing.
WEBS	1 Row at midpt 1-20, 2-17, 3-14, 6-14, 7-11

REACTIONS. All bearings 31-8-11.
(lb) - Max Horz 23=167(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 20, 17, 14, 9 except 23=-704(LC 44), 8=-754(LC 47), 11=-196(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 22, 21, 19, 18, 16, 15, 13, 12, 10, 9 except 23=779(LC 51), 8=855(LC 36), 20=575(LC 21), 17=536(LC 21), 14=616(LC 21), 11=665(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-747/697, 1-2=-1448/1428, 2-3=-1510/1465, 3-5=-1425/1372, 5-6=-1332/1292, 6-7=-1435/1402, 7-8=-813/830
BOT CHORD	22-23=-607/490, 21-22=-1007/890, 20-21=-1476/1359, 19-20=-335/267, 18-19=-735/667, 17-18=-1273/1205, 15-16=-627/593, 14-15=-1234/1200, 13-14=-1245/1227, 12-13=-652/634, 11-12=-252/234, 10-11=-1234/1264, 9-10=-710/740, 8-9=-310/340
WEBS	1-20=-1561/1616, 2-20=-904/781, 2-17=-1418/1441, 3-17=-845/762, 3-14=-1332/1321, 5-14=-483/184, 6-14=-1369/1345, 6-11=-911/764, 7-11=-1548/1525

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-5-15, Corner(3) 16-5-15 to 31-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 17, 14, 9 except (jt=lb) 23=704, 8=754, 11=196.

Continued on page 2

April 15,2022

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Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-11 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-67, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-39, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-80, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-42, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=13, 1-7=-9, 7-8=3, 7-24=27
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-3, 1-7=-3, 7-8=-13, 7-24=-27
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-51, 8-23=-20
   Horz: 1-23=10, 1-7=-9, 7-8=2, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-23=-2, 1-7=-3, 7-8=-10, 7-24=18
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-57, 8-23=-20
   Horz: 1-2=7200, 2-3=7200, 3-51=7200, 4-51=7200, 4-52=7200, 7-52=7200
   Drag: 8-23=-150
   Trapezoidal Loads (plf)
   Vert: 6=-57-to-7=-117
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-6=-63, 8-23=-20
   Horz: 1-2=-7200, 2-3=-7200, 3-51=-7200, 4-51=-7200, 4-52=-7200, 7-52=-7200
   Drag: 8-23=150
   Trapezoidal Loads (plf)
   Vert: 6=-63-to-7=-123
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-64, 8-23=-20
Horz: 1-2=7200, 2-3=7200, 3-51=7200, 4-51=7200, 4-52=7200, 7-52=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-64-to-7=-124

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-70, 8-23=-20
Horz: 1-2=-7200, 2-3=-7200, 3-51=-7200, 4-51=-7200, 4-52=-7200, 7-52=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-130

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-36, 8-23=-20
Horz: 1-2=7200, 2-3=7200, 3-51=7200, 4-51=7200, 4-52=7200, 7-52=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-36-to-7=-96

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-42, 8-23=-20
Horz: 1-2=-7200, 2-3=-7200, 3-51=-7200, 4-51=-7200, 4-52=-7200, 7-52=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-102

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=13, 1-2=7191, 2-3=7191, 3-51=7191, 4-51=7191, 4-52=7191, 7-52=7191, 7-8=3, 7-24=27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=13, 1-2=-7209, 2-3=-7209, 3-51=-7209, 4-51=-7209, 4-52=-7209, 7-52=-7209, 7-8=3, 7-24=27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-3, 1-2=7197, 2-3=7197, 3-51=7197, 4-51=7197, 4-52=7197, 7-52=7197, 7-8=-13, 7-24=-27
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-3, 1-2=-7203, 2-3=-7203, 3-51=-7203, 4-51=-7203, 4-52=-7203, 7-52=-7203, 7-8=-13, 7-24=-27
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-48, 8-23=-20
Horz: 1-23=10, 1-2=7191, 2-3=7191, 3-51=7191, 4-51=7191, 4-52=7191, 7-52=7191, 7-8=2, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-48-to-7=-108

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=10, 1-2=-7209, 2-3=-7209, 3-51=-7209, 4-51=-7209, 4-52=-7209, 7-52=-7209, 7-8=2, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-6=-54, 8-23=-20
Horz: 1-23=-2, 1-2=7197, 2-3=7197, 3-51=7197, 4-51=7197, 4-52=7197, 7-52=7197, 7-8=-10, 7-24=18
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 6=-54-to-7=-114

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-60, 8-23=-20
Horz: 1-23=-2, 1-2=-7203, 2-3=-7203, 3-51=-7203, 4-51=-7203, 4-52=-7203, 7-52=-7203, 7-8=-10, 7-24=18
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

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Chesterfield, MO 63017

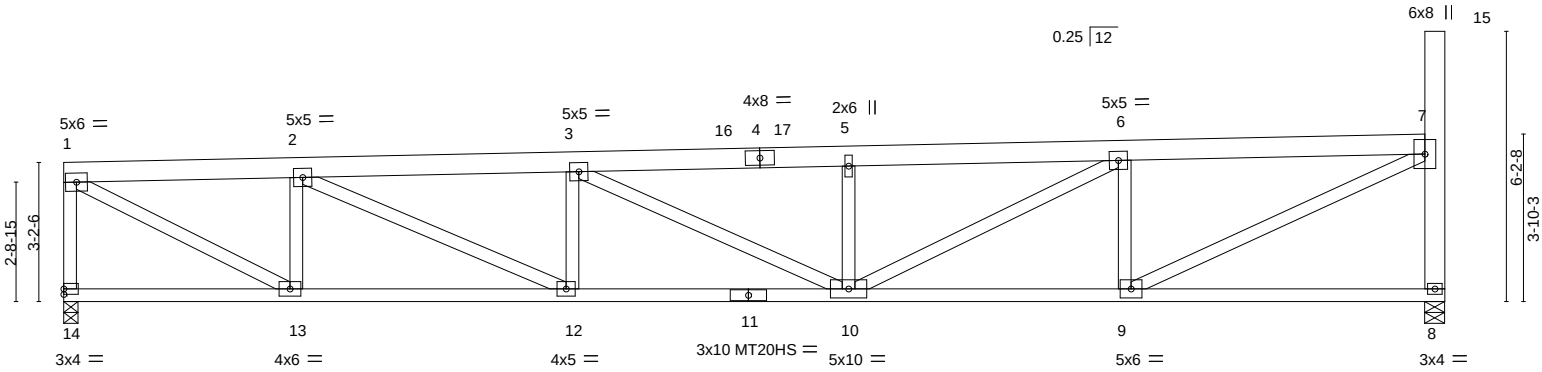
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M7	Monopitch	9	1	I51408869
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:16 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-5aEnilkk9mNvTg??KHWyC4B?ql1cbRrV3_9dV5zQTN9

5-4-2 | 11-8-4 | 18-0-6 | 24-4-8 | 31-8-12
5-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 7-4-4

Scale = 1:52.9



5-4-2 | 11-8-4 | 18-0-6 | 24-4-8 | 31-8-11 | 31-8-12
5-4-2 | 6-4-2 | 6-4-2 | 6-4-2 | 7-4-3 | 0-0-1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.44	10-12	>857	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=166(LC 12)
Max Grav 14=1583(LC 21), 8=1825(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1533/298, 1-2=-2434/412, 2-3=-3883/682, 3-5=-3948/724, 5-6=-3948/729, 6-7=-2875/582, 7-8=-1752/325
BOT CHORD 12-13=-584/2430, 10-12=-753/3877, 9-10=-462/2866
WEBS 1-13=-483/2729, 2-13=-1186/307, 2-12=-291/1593, 3-12=-542/200, 5-10=-471/175, 6-10=-273/1215, 6-9=-1209/318, 7-9=-524/3062

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-80-to-7=-160

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 6=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M7A	Monopitch	3	1	I51408870
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:17 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ZmnAwelMw3Vm5qaBu_1BlHjAaiNqKu5eIeuA1XzQTN8

5-4-2	11-8-4	18-0-6	24-4-8	31-8-12
5-4-2	6-4-2	6-4-2	6-4-2	7-4-4

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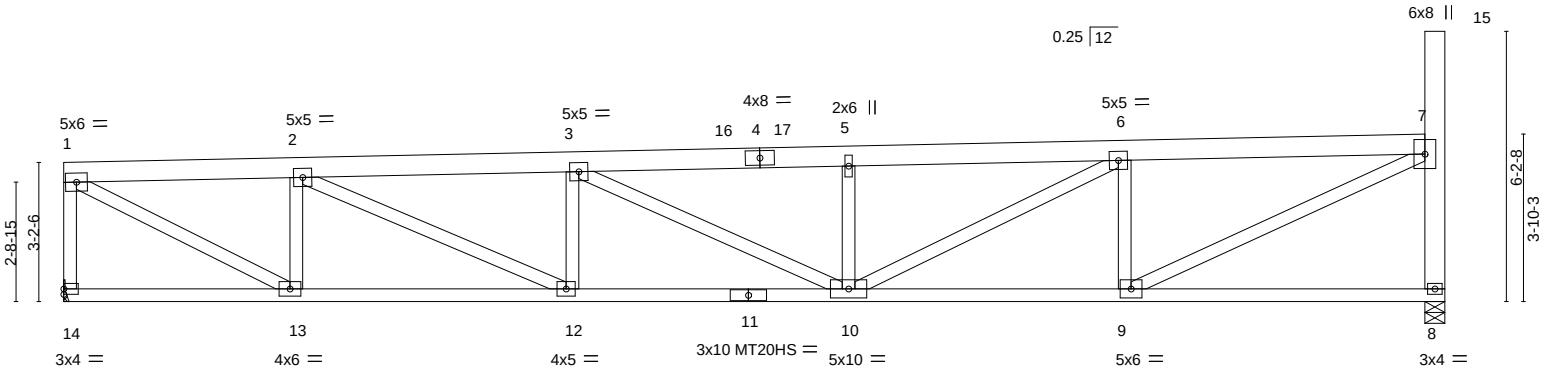

5-4-2	11-8-4	18-0-6	24-4-8	31-8-12
5-4-2	6-4-2	6-4-2	6-4-2	7-4-4

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.22	10-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.44	10-12	>857	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=0-5-8
Max Horz 14=166(LC 12)
Max Grav 14=1583(LC 21), 8=1825(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1533/298, 1-2=-2434/412, 2-3=-3883/682, 3-5=-3948/724, 5-6=-3948/729, 6-7=-2875/582, 7-8=-1752/325
BOT CHORD 12-13=-584/2430, 10-12=-753/3877, 9-10=-462/2866
WEBS 1-13=-483/2729, 2-13=-1186/307, 2-12=-291/1593, 3-12=-542/200, 5-10=-471/175, 6-10=-273/1215, 6-9=-1209/318, 7-9=-524/3062

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-6-0, Corner(3) 16-6-0 to 31-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 6=-70-to-7=-150

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-60-to-7=-120
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-67-to-7=-127
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-39-to-7=-99
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-80, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-80-to-7=-160
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-42-to-7=-122
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-51, 8-14=-20
      Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-51-to-7=-111
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 1-6=-57, 8-14=-20
      Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
   Trapezoidal Loads (plf)
      Vert: 6=-57-to-7=-117
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 6=-70-to-7=-150

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M8	Monopitch	6	1	I51408871
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:18 2022 Page 1
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6-5-12	13-3-7	19-5-3	25-6-15	31-8-11
6-5-12	6-9-11	6-1-12	6-1-12	6-1-12

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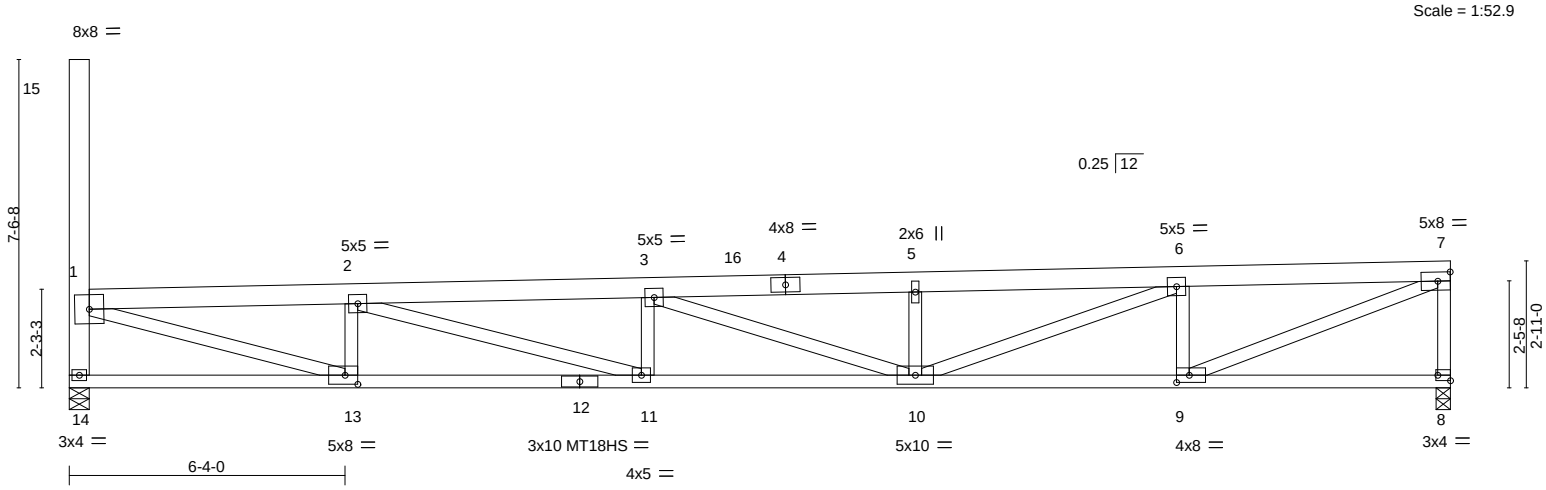

6-5-12	13-3-7	19-5-3	25-6-15	31-8-11
6-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.38	10-11	>980	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.76	10-11	>496	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 198 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
8-12: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-11 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=252(LC 12)
Max Grav 14=1795(LC 21), 8=1578(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1725/337, 1-2=-4216/1046, 2-3=-5736/1172, 3-5=-5248/1000, 5-6=-5248/1005, 6-7=-3283/601, 7-8=-1515/320
BOT CHORD 13-14=-565/698, 11-13=-1101/4206, 10-11=-1221/5729, 9-10=-635/3277
WEBS 1-13=-781/4163, 2-13=-1078/307, 2-11=-475/1588, 3-11=-320/215, 3-10=-516/188, 5-10=-481/169, 6-10=-440/2111, 6-9=-1241/342, 7-9=-665/3494

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Continued on page 2

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-80, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-160-to-2=-80
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M9	Monopitch	12	1	I51408872
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:19 2022 Page 1
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6-11-7 13-1-3 19-2-15 25-4-11
6-11-7 6-1-12 6-1-12 6-1-12

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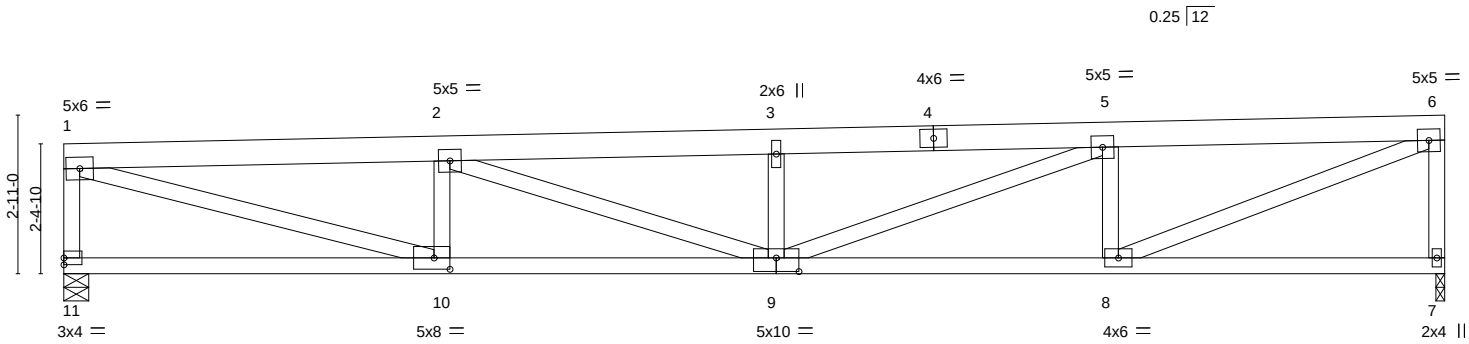

6-11-7 13-1-3 19-2-15 25-4-11
6-11-7 6-1-12 6-1-12 6-1-12

Plate Offsets (X,Y)-- [9:0-5-0,0-3-0], [10:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.37	9-10	>813	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 149 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.

REACTIONS. (size) 11=0-5-8, 7=0-1-15
Max Horz 11=54(LC 14)
Max Grav 11=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1163/302, 1-2=-2949/644, 2-3=-3480/757, 3-5=-3479/762, 5-6=-2440/551, 6-7=-1175/300
BOT CHORD 9-10=-697/2943, 8-9=-556/2435
WEBS 1-10=-657/2964, 2-10=-716/275, 2-9=-123/563, 3-9=-471/194, 5-9=-255/1116, 5-8=-887/309, 6-8=-580/2589

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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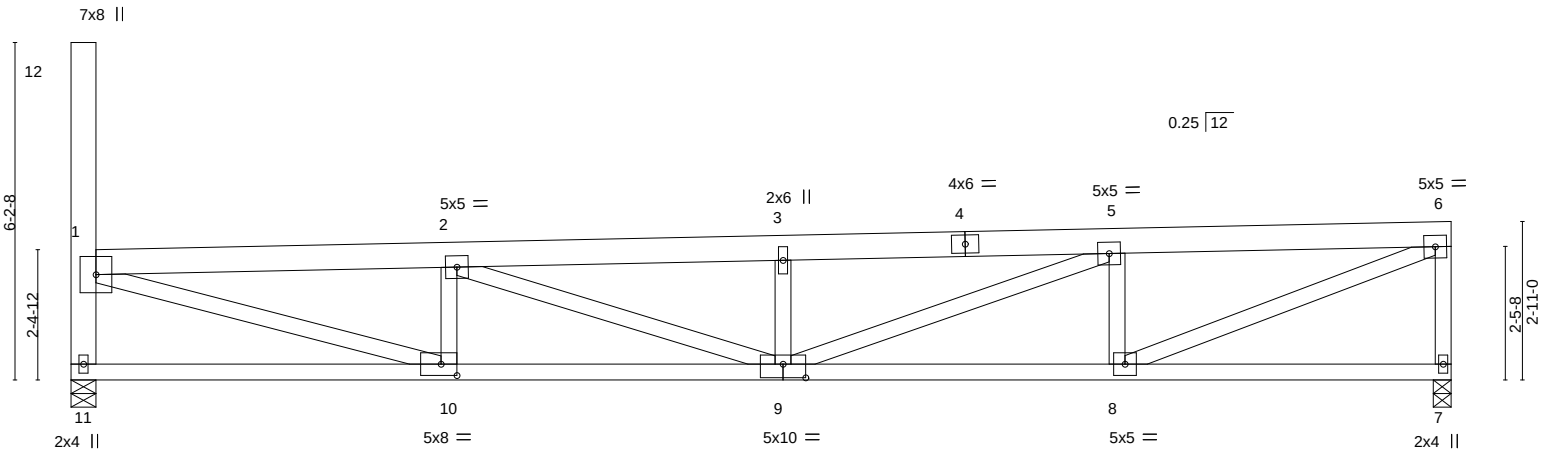
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M9A	Monopitch	6	1	I51408873
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:20 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-_LTIYgnFD_tLyHJmZ6buNwLiXvLrXFw4_b7reszQTN5

6-11-7	13-1-3	19-2-15	25-4-11
6-11-7	6-1-12	6-1-12	6-1-12

Scale = 1:42.4



6-11-7	13-1-3	19-2-15	25-4-11
6-11-7	6-1-12	6-1-12	6-1-12

Plate Offsets (X,Y)-- [9:0-5-0,0-3-0], [10:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.19	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.38	9-10	>790	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 159 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
11-12: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-12 oc bracing.

REACTIONS. (size) 11=0-5-8, 7=0-3-15
Max Horz 11=198(LC 12)
Max Grav 11=1475(LC 21), 7=1254(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1402/342, 1-2=-3138/849, 2-3=-3581/875, 3-5=-3581/880, 5-6=-2490/580, 6-7=-1194/325
BOT CHORD 10-11=-401/468, 9-10=-902/3127, 8-9=-616/2484
WEBS 1-10=-740/3041, 2-10=-753/297, 2-9=-273/547, 3-9=-460/201, 5-9=-329/1172, 5-8=-908/334, 6-8=-644/2642

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-11=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-66, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-2=-66

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-78, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-2=-78

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=13, 1-12=27, 1-6=-9, 6-7=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-3, 1-12=-27, 1-6=-3, 6-7=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=10, 1-12=-18, 1-6=-9, 6-7=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-2, 1-12=-18, 1-6=-3, 6-7=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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Chesterfield, MO 63017

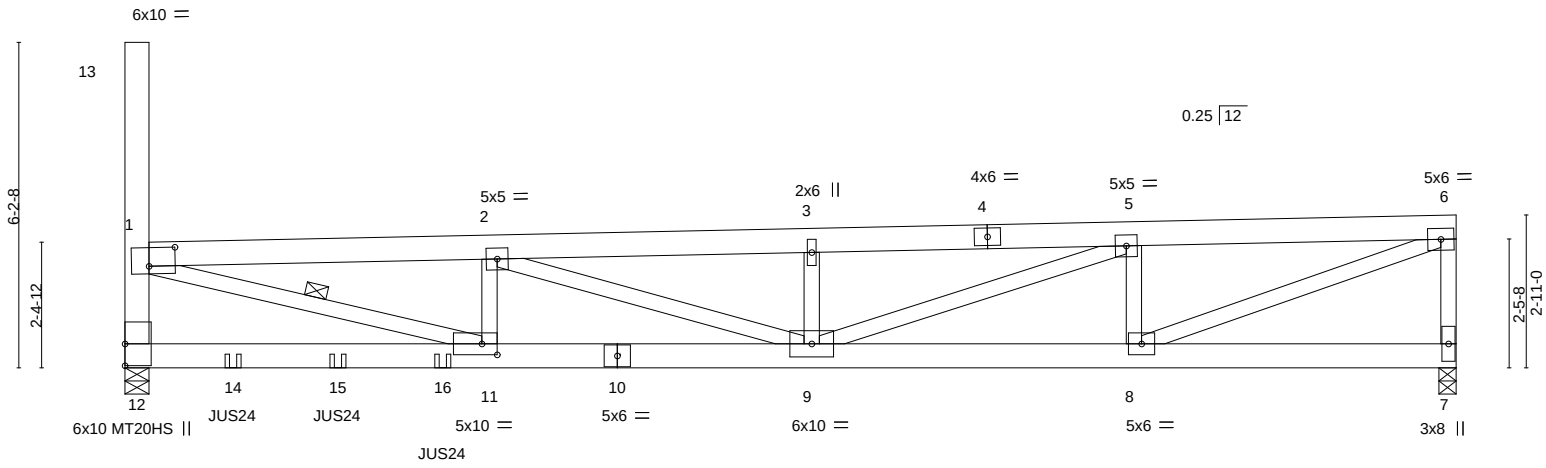
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M9G	Roof Special Girder	1	1	I51408874
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:21 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-SX1gl0ot_I?CaRty7q67v7utFJleGgyEDFsOAJzQTN4

6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Scale = 1:43.9



6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Plate Offsets (X,Y)-- [1:0-6-0,0-4-4], [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.25	11-12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.39	9-11	>776	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-15 oc bracing.
WEBS 1 Row at midpt 1-11

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=196(LC 12)
Max Uplift 12=-802(LC 11), 7=-114(LC 15)
Max Grav 12=1988(LC 50), 7=1322(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1553/741, 1-2=-3921/2295, 2-3=-4035/1686, 3-5=-4034/1692, 5-6=-2737/982, 6-7=-1250/471
BOT CHORD 11-12=-652/710, 9-11=-2347/3916, 8-9=-1017/2731
WEBS 1-11=-2007/3689, 2-11=-734/590, 2-9=-987/1136, 3-9=-459/225, 5-9=-765/1388, 5-8=-973/469, 6-8=-1062/2883

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=802, 7=114.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 6-0-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-146(F) 15=-146(F) 16=-146(F)
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-60, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-117(F) 15=-117(F) 16=-117(F)
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-66, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-117(F) 15=-117(F) 16=-117(F)
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-117(F) 15=-117(F) 16=-117(F)
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-78, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-146(F) 15=-146(F) 16=-146(F)
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Concentrated Loads (lb)
      Vert: 14=-146(F) 15=-146(F) 16=-146(F)
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Concentrated Loads (lb)
      Vert: 14=184(F) 15=184(F) 16=183(F)
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Concentrated Loads (lb)
      Vert: 14=184(F) 15=184(F) 16=183(F)
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Concentrated Loads (lb)
      Vert: 14=184(F) 15=184(F) 16=183(F)
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Concentrated Loads (lb)
      Vert: 14=184(F) 15=184(F) 16=183(F)
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Concentrated Loads (lb)
Vert: 14=-146(F) 15=-146(F) 16=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
Concentrated Loads (lb)
Vert: 14=-325(F) 15=-325(F) 16=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
Concentrated Loads (lb)
Vert: 14=-325(F) 15=-325(F) 16=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-12=-20
Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
Concentrated Loads (lb)
Vert: 14=-325(F) 15=-325(F) 16=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-12=-20
Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
Concentrated Loads (lb)
Vert: 14=-325(F) 15=-325(F) 16=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

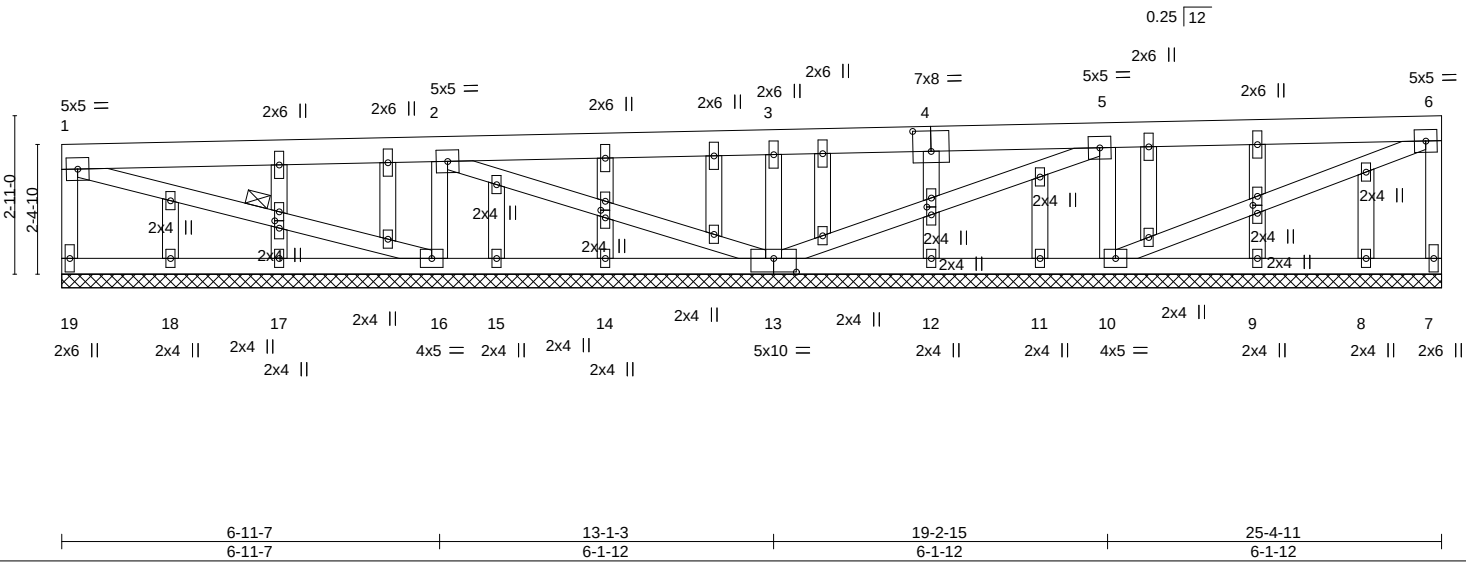
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M9S	GABLE	1	1	I51408875
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:24 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-s6ipO1rlGDNmRucXoyfqXmWQmWtjT?AgvD52ndzQTN1

6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Scale = 1:42.4



6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [13:0-5-0,0-3-0], [21:0-1-10,0-1-0], [26:0-1-11,0-1-0], [32:0-1-12,0-1-0], [37:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	-0.01	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 177 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-13 oc bracing.
WEBS	1 Row at midpt 1-16

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 19=54(LC 47)
Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 18, 8 except 19=-465(LC 44), 7=-546(LC 53), 10=-133(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 15, 14, 12, 11, 9, 8 except 19=550(LC 65), 7=618(LC 64), 16=609(LC 21), 13=542(LC 21), 10=570(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-527/510, 1-2=-1379/1363, 2-3=-1245/1243, 3-5=-1261/1268, 5-6=-1302/1298, 6-7=-605/593
BOT CHORD	18-19=-438/427, 17-18=-838/827, 16-17=-1429/1418, 15-16=-263/236, 14-15=-663/657, 13-14=-1283/1277, 12-13=-1173/1174, 11-12=-593/594, 9-10=-1208/1213, 8-9=-657/662, 7-8=-257/262
WEBS	1-16=-1429/1434, 2-16=-801/677, 2-13=-1324/1325, 3-13=-446/190, 5-13=-1271/1255, 5-10=-757/651, 6-10=-1378/1373

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 18, 8 except (jt=lb) 19=465, 7=546, 10=133.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

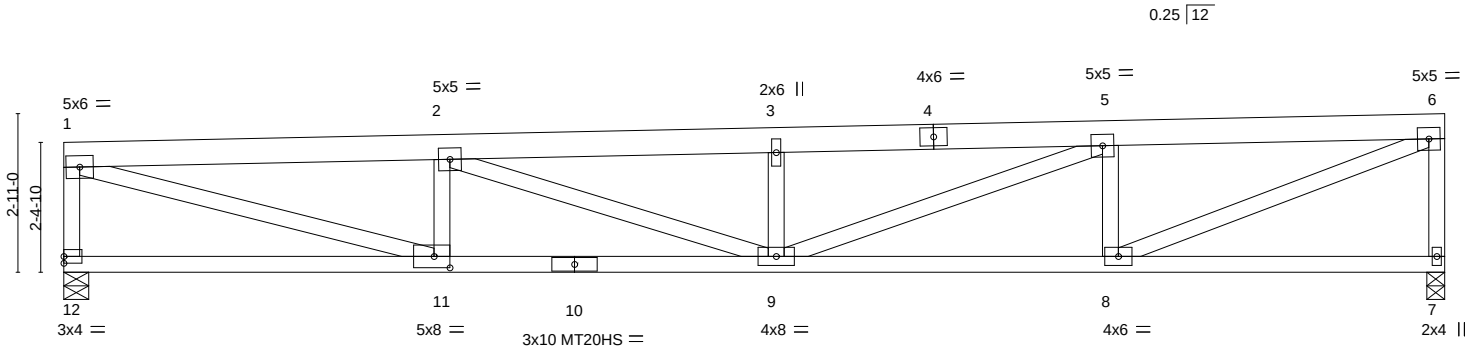
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M10	Monopitch	2	1	I51408876
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:11 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-V3oD34yzToB7AgXV07rj4M_xX5qns27w6MvhjMzQTOA

6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Scale = 1:42.4



6-11-7 | 13-1-3 | 19-2-15 | 25-4-11
6-11-7 | 6-1-12 | 6-1-12 | 6-1-12

Plate Offsets (X,Y)-- [11:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.18	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.37	9-11	>813	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 149 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=54(LC 12)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1163/302, 1-2=-2949/644, 2-3=-3480/757, 3-5=-3479/762, 5-6=-2440/551, 6-7=-1175/300
BOT CHORD 9-11=-697/2943, 8-9=-556/2435
WEBS 1-11=-657/2964, 2-11=-716/275, 2-9=-123/563, 3-9=-471/194, 5-9=-255/1116, 5-8=-887/309, 6-8=-580/2589

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

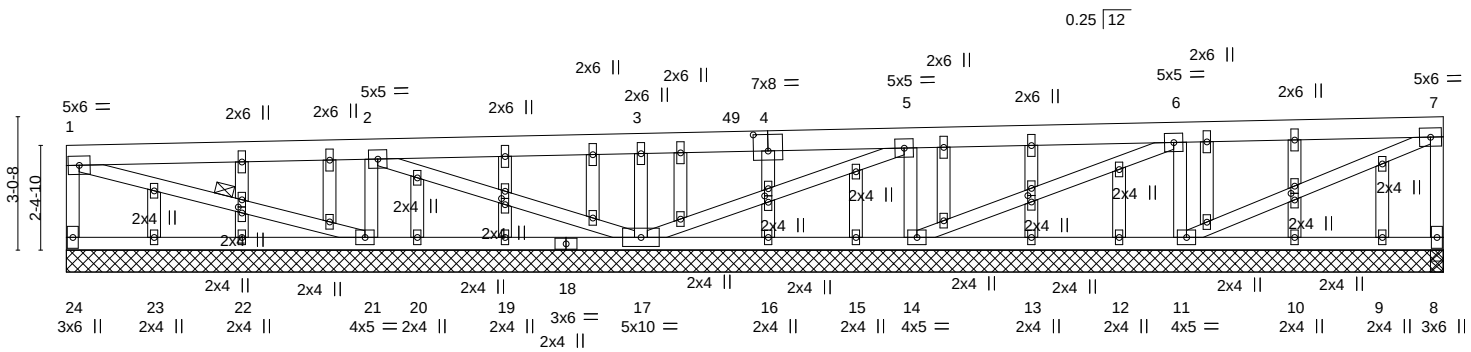
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M10S	GABLE	1	1	I51408877
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:15 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-Or2jvR?TW0hZfIrHFzwfEC9e9iKaon7W1_tus7zQTO6

6-11-7	13-1-3	19-2-15	25-4-11	31-4-11
6-11-7	6-1-12	6-1-12	6-1-12	6-0-0

Scale = 1:52.5



6-11-7	13-1-3	19-2-15	25-4-11	31-4-11
6-11-7	6-1-12	6-1-12	6-1-12	6-0-0

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [26:0-1-10,0-1-0], [31:0-1-11,0-1-0], [37:0-1-12,0-1-0], [42:0-1-12,0-1-0], [47:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	23-24	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.00	21-22	>999	360		
TCDL	15.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 220 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-14 oc bracing.
WEBS	1 Row at midpt 1-21

REACTIONS. All bearings 31-4-11.
(lb) - Max Horz 24=57(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 21, 17, 14, 23, 9 except 24=-464(LC 44), 8=-592(LC 53), 11=-138(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 8, 23, 22, 20, 19, 16, 15, 13, 12, 10, 9 except 24=549(LC 65), 8=662(LC 64), 21=614(LC 21), 17=559(LC 21), 14=532(LC 21), 11=566(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-24=-527/496, 1-2=-1377/1360, 2-3=-1239/1238, 3-5=-1269/1278, 5-6=-1351/1356, 6-7=-1322/1314, 7-8=-650/627
BOT CHORD	23-24=-437/427, 22-23=-837/827, 21-22=-1428/1418, 20-21=-265/238, 19-20=-665/659, 17-19=-1285/1279, 16-17=-1156/1146, 15-16=-576/566, 13-14=-1129/1132, 12-13=-578/580, 10-11=-1179/1184, 9-10=-657/662, 8-9=-257/262
WEBS	1-21=-1427/1431, 2-21=-802/642, 2-17=-1321/1317, 3-17=-466/170, 5-17=-1255/1242, 5-14=-723/605, 6-14=-1316/1308, 6-11=-786/658, 7-11=-1408/1405

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 16-2-15, Corner(3) 16-2-15 to 31-2-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 17, 14, 23, 9 except (jt=lb) 24=464, 8=592, 11=138.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-4-11 for 200.0 plf.

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

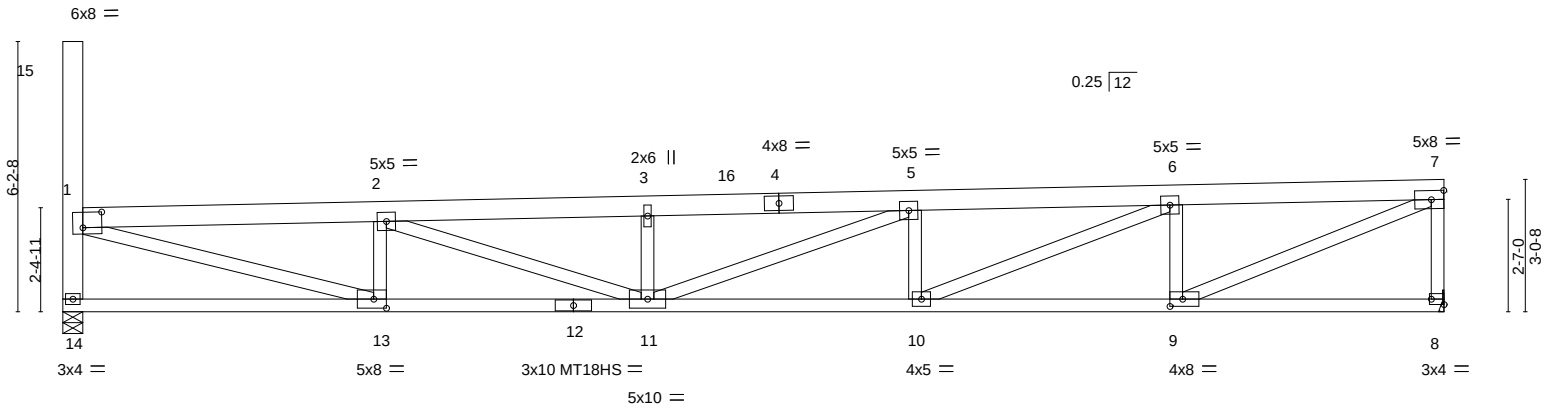
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M11	Monopitch	24	1	I51408878
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:16 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-s1b66n05HKpQHSPTpgRunQikP6VRXHrfGecSOazQTO5

7-3-7	13-5-3	19-6-15	25-6-15	31-8-12
7-3-7	6-1-12	6-1-12	6-0-0	6-1-13

Scale = 1:52.9



7-3-7	13-5-3	19-6-15	25-6-15	31-8-12
7-3-7	6-1-12	6-1-12	6-0-0	6-1-13

Plate Offsets (X,Y)-- [1:0-5-4,0-4-4], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.37	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.73	10-11	>512	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 196 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=Mechanical
Max Horz 14=201(LC 12)
Max Grav 14=1823(LC 21), 8=1583(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1743/325, 1-2=-4326/894, 2-3=-5467/1023, 3-5=-5467/1028, 5-6=-4965/890, 6-7=-3134/546, 7-8=-1521/310
BOT CHORD 13-14=-390/430, 11-13=-951/4315, 10-11=-931/4960, 9-10=-581/3128
WEBS 1-13=-756/4224, 2-13=-1036/294, 2-11=-327/1215, 3-11=-473/174, 5-11=-153/538, 5-10=-657/221, 6-10=-380/1988, 6-9=-1244/328, 7-9=-612/3365

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-7-0, Corner(3) 16-7-0 to 31-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-80, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-160-to-2=-80
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-7=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-7=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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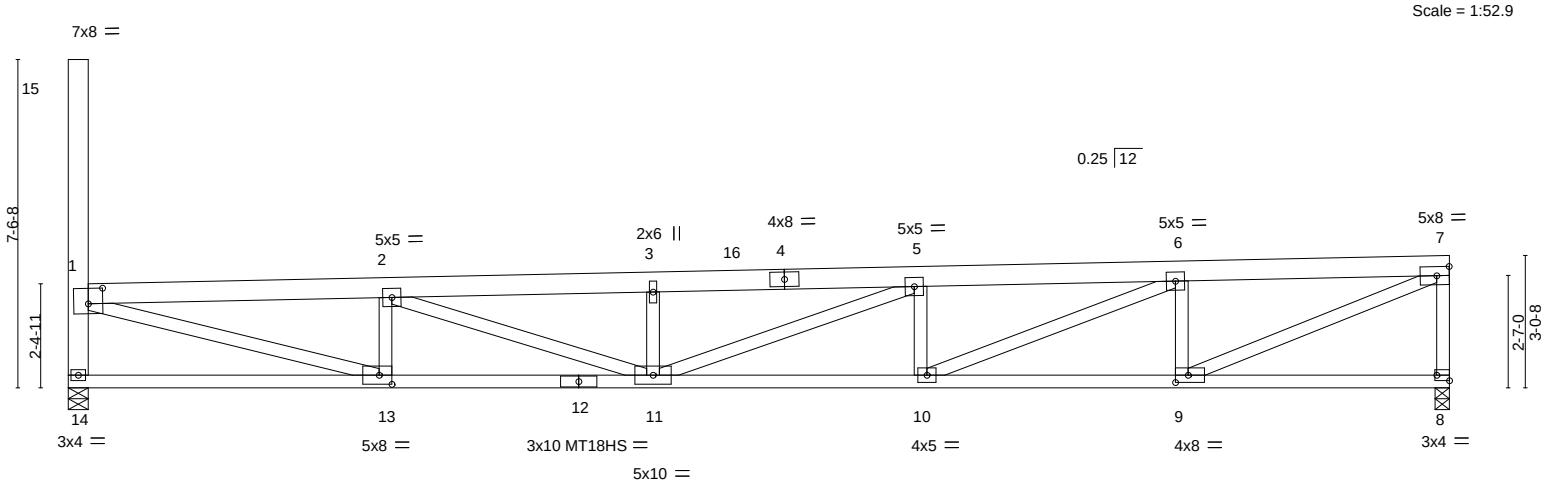
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M11A	Monopitch	6	1	I51408879
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:17 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-KD9UK71k2exHub_fNOy7JdEtiWqgGk4pVIM?w0zQTO4

7-3-7	13-5-3	19-6-15	25-6-15	31-8-11
7-3-7	6-1-12	6-1-12	6-0-0	6-1-12

Scale = 1:52.9



7-3-7	13-5-3	19-6-15	25-6-15	31-8-11
7-3-7	6-1-12	6-1-12	6-0-0	6-1-12

Plate Offsets (X,Y)-- [1:0-4-0,0-4-4], [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.37	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.73	10-11	>513	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 199 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-5 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=250(LC 12)
Max Grav 14=1822(LC 21), 8=1583(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1743/342, 1-2=-4325/1018, 2-3=-5466/1107, 3-5=-5466/1112, 5-6=-4964/944, 6-7=-3132/571, 7-8=-1521/321
BOT CHORD 13-14=-541/654, 11-13=-1075/4314, 10-11=-984/4958, 9-10=-606/3126
WEBS 1-13=-798/4224, 2-13=-1036/304, 2-11=-389/1214, 3-11=-473/177, 5-11=-186/539, 5-10=-657/233, 6-10=-411/1989, 6-9=-1244/339, 7-9=-639/3363

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-60, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-2=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-80, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-160-to-2=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

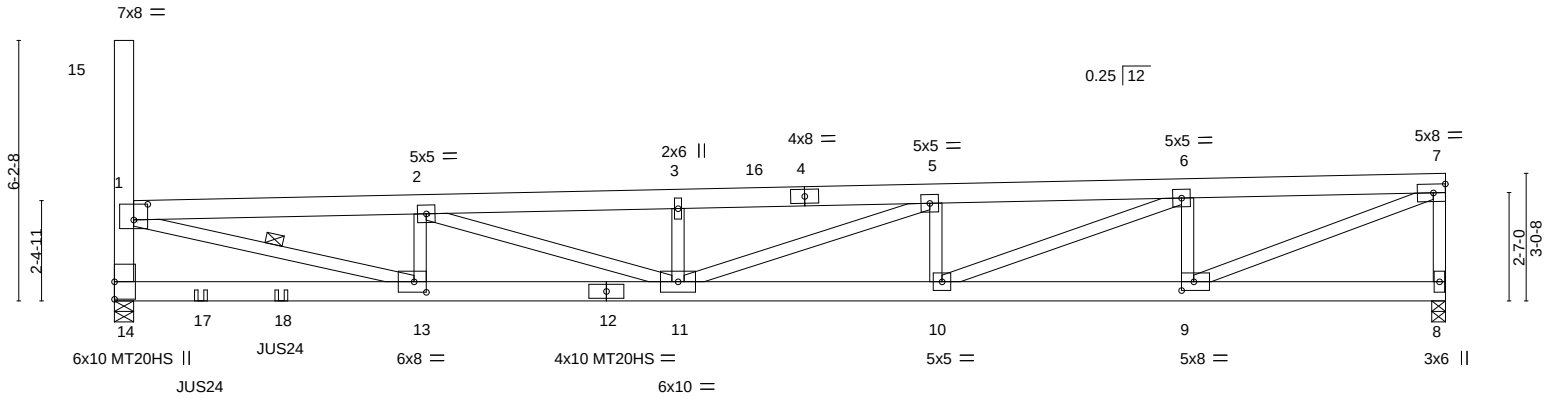
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M11G	Roof Special Girder	2	1	I51408880
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:26 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ZyCuCC8NxO4?U_AOOndEBX6R58yctop7ZC1_j?zQTNx

7-3-7	13-5-3	19-6-15	25-6-15	31-8-11
7-3-7	6-1-12	6-1-12	6-0-0	6-1-12

Scale = 1:54.9



7-3-7	13-5-3	19-6-15	25-6-15	31-8-11
7-3-7	6-1-12	6-1-12	6-0-0	6-1-12

Plate Offsets (X,Y)-- [1:0-4-0,0-4-8], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.37	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.72	10-11	>526	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 221 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-15: 2x6 SP No.1, 1-13: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-9-1 oc bracing.
WEBS	1 Row at midpt 1-13

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=199(LC 12)
Max Uplift 14=-551(LC 11), 8=-7(LC 15)
Max Grav 14=2089(LC 21), 8=1609(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-14=-1797/516, 1-2=-4797/1700, 2-3=-5825/1497, 3-5=-5825/1502, 5-6=-5256/1218, 6-7=-3279/698, 7-8=-1534/362
BOT CHORD	13-14=-600/640, 11-13=-1755/4785, 10-11=-1258/5250, 9-10=-732/3273
WEBS	1-13=-1395/4542, 2-13=-977/448, 2-11=-708/1361, 3-11=-465/186, 5-11=-309/607, 5-10=-683/268, 6-10=-568/2136, 6-9=-1272/392, 7-9=-765/3494

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 14=551.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-11-0 oc max. starting at 2-0-12 from the left end to 3-11-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F) 18=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F) 18=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F) 18=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-2=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-117(F) 18=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-80, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F) 18=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-160-to-2=-80
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-7=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 17=-146(F) 18=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 17=184(F) 18=184(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 17=184(F) 18=184(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 17=184(F) 18=184(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-7=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 17=184(F) 18=184(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-7=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F) 18=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-326(F) 18=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-326(F) 18=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-326(F) 18=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-7=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-326(F) 18=-325(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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Chesterfield, MO 63017

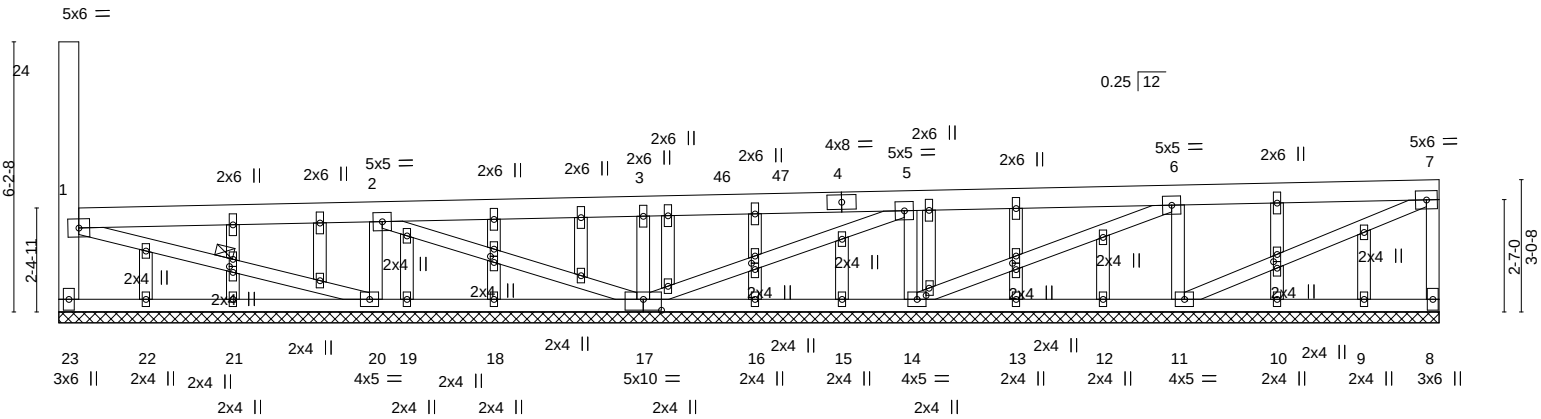
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M11S	GABLE	1	1	I51408881
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:29 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-zXu0rEAFDJSaLRvz4vAxo9k04M4_47OaFAGeKKzQTNu

7-3-7	13-5-3	19-6-15	25-8-11	31-8-11
7-3-7	6-1-12	6-1-12	6-1-12	6-0-0

Scale = 1:53.0



7-3-7	13-5-3	19-6-15	25-8-11	31-8-11
7-3-7	6-1-12	6-1-12	6-1-12	6-0-0

Plate Offsets (X,Y)-- [14:0-2-0,0-0-13], [17:0-5-0,0-3-0], [26:0-1-10,0-1-0], [31:0-1-11,0-1-0], [37:0-1-12,0-1-0], [41:0-1-12,0-1-0], [44:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	-0.02	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 229 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 23-24: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-6-1 oc bracing.
WEBS	1 Row at midpt 1-20

REACTIONS. All bearings 31-8-11.
(lb) - Max Horz 23=201(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 17, 14, 22, 19 except 23=-523(LC 44), 8=-587(LC 53), 20=-104(LC 52), 11=-140(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 22, 21, 18, 16, 15, 13, 12, 10, 9 except 23=607(LC 51), 8=660(LC 64), 20=626(LC 21), 17=563(LC 21), 14=529(LC 21), 11=563(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-586/502, 1-2=-1489/1477, 2-3=-1236/1263, 3-5=-1287/1321, 5-6=-1340/1371, 6-7=-1319/1315, 7-8=-649/629
BOT CHORD	22-23=-686/607, 21-22=-1086/1007, 20-21=-1744/1664, 19-20=-312/284, 18-19=-727/684, 17-18=-1413/1370, 16-17=-1165/1155, 15-16=-651/641, 14-15=-251/241, 13-14=-1132/1127, 12-13=-648/643, 10-11=-1179/1185, 9-10=-724/730, 8-9=-324/330
WEBS	1-20=-1584/1622, 2-20=-795/629, 2-17=-1385/1401, 3-17=-467/172, 5-17=-1285/1273, 5-14=-727/617, 6-14=-1328/1319, 6-11=-788/661, 7-11=-1414/1408

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 16-6-15, Corner(3) 16-6-15 to 31-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 14, 22, 19 except (jt=lb) 23=523, 8=587, 20=104, 11=140.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M11S	GABLE	1	1	I51408881
					Job Reference (optional)

NOTES-

11) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 31-8-11 for 200.0 plf.

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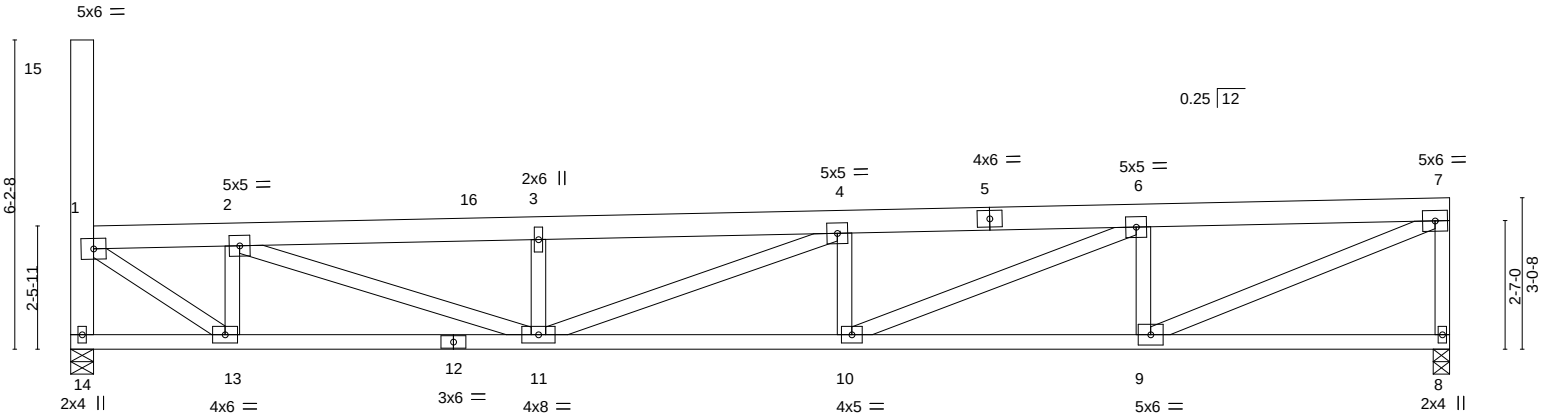
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M12	Monopitch	12	1	I51408882
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:30 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-SjSO2aBt_daRybU9dchALNHBllJSpfGjUq?BtmzQTNt

3-2-15	9-4-11	15-6-7	21-6-7	27-8-3
3-2-15	6-1-12	6-1-12	6-0-0	6-1-12

Scale = 1:46.3



3-2-15	9-4-11	15-6-7	21-6-7	27-8-3
3-2-15	6-1-12	6-1-12	6-0-0	6-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.43	10-11	>756	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 175 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=198(LC 12)
Max Grav 14=1631(LC 21), 8=1379(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1605/314, 1-2=-2049/617, 2-3=-3938/906, 3-4=-3936/911, 4-6=-3978/863, 6-7=-2661/554, 7-8=-1318/322
BOT CHORD 13-14=-349/434, 11-13=-676/2044, 10-11=-905/3973, 9-10=-591/2655
WEBS 1-13=-419/2415, 2-13=-1282/295, 2-11=-526/1998, 3-11=-519/201, 4-10=-440/203, 6-10=-341/1431, 6-9=-1035/333, 7-9=-622/2852

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M12S	GABLE	2	1	I51408883
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:33 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-sI7XgbDmHYy0p3DkJlFtz?vi_zTt0wr9AnErT5zQTNq

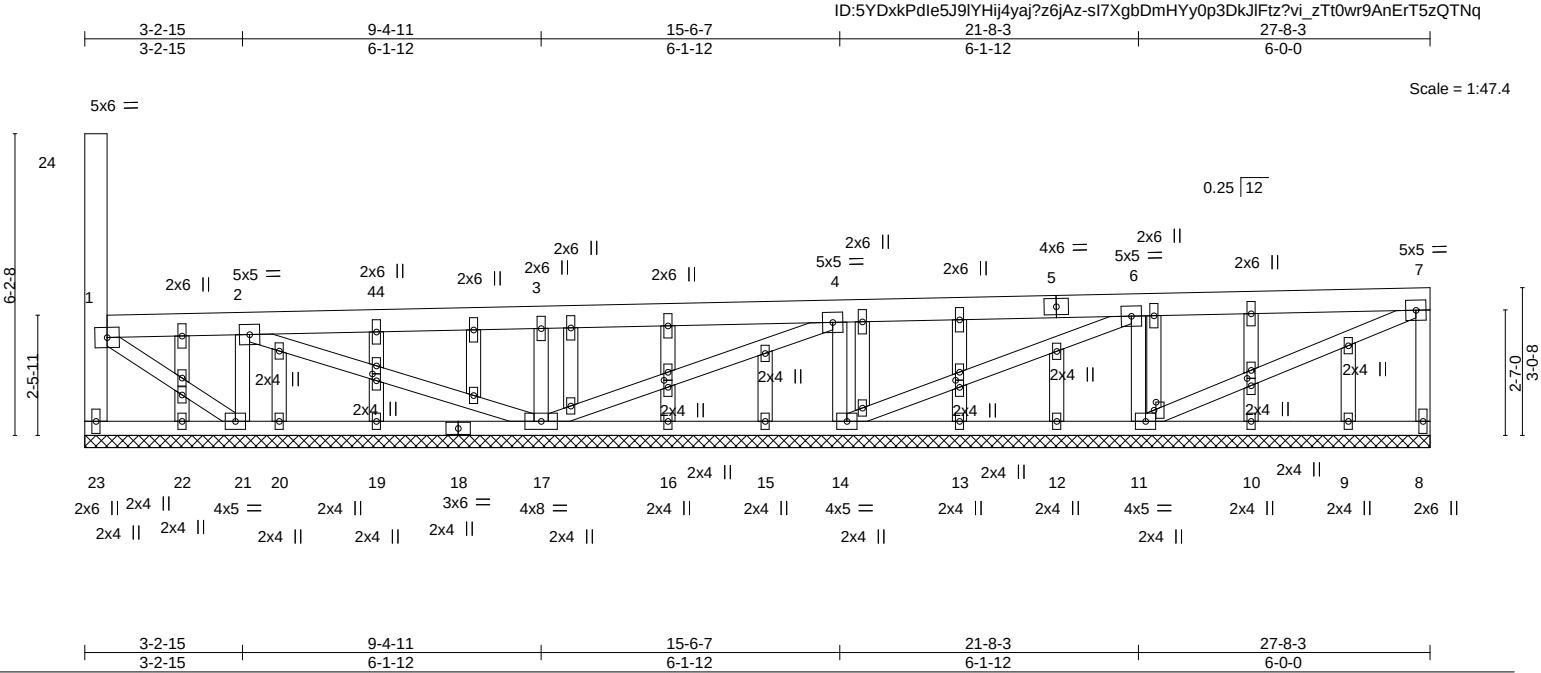

Plate Offsets (X,Y)-- [11:0-2-0,0-0-8], [28:0-1-11,0-1-0], [33:0-1-12,0-1-0], [38:0-1-12,0-1-0], [42:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.02	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 207 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 23-24: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-4-4 oc bracing.

REACTIONS. All bearings 27-8-3.
(lb) - Max Horz 23=198(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 22 except 23=-936(LC 44), 8=-578(LC 53), 21=-543(LC 47), 17=-104(LC 52), 14=-124(LC 52), 11=-149(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 22, 20, 19, 16, 15, 13, 12, 10, 9 except 23=980(LC 51), 8=651(LC 64), 21=784(LC 68), 17=596(LC 21), 14=513(LC 37), 11=568(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-952/933, 1-2=-1175/1186, 2-3=-1431/1462, 3-4=-1080/1118, 4-6=-1276/1302, 6-7=-1298/1293, 7-8=-639/626
BOT CHORD	22-23=-654/587, 21-22=-903/836, 20-21=-614/584, 19-20=-463/426, 17-19=-867/838, 16-17=-1232/1221, 15-16=-710/700, 14-15=-310/300, 13-14=-1154/1150, 12-13=-661/657, 11-12=-261/257, 10-11=-1181/1186, 9-10=-717/722, 8-9=-317/322
WEBS	1-21=-1495/1541, 2-21=-673/497, 2-17=-1034/1045, 3-17=-505/207, 4-17=-1139/1127, 4-14=-675/579, 6-14=-1275/1267, 6-11=-772/661, 7-11=-1390/1383

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 23=936, 8=578, 21=543, 17=104, 14=124, 11=149.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

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NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-8-3 for 200.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-70, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-44=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-60, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-44=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-67, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-44=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-39, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-44=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-79, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-44=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-44=-42, 8-23=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-44=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-51, 8-23=-20
   Horz: 1-23=13, 1-24=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-44=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-57, 8-23=-20
   Horz: 1-23=-3, 1-24=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-44=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-51, 8-23=-20
   Horz: 1-23=10, 1-24=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-44=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-57, 8-23=-20
   Horz: 1-23=-2, 1-24=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-44=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-57, 8-23=-20
   Horz: 1-2=7200, 2-44=7200, 3-44=7200, 3-5=7200, 5-6=7200, 6-7=7200
   Drag: 8-23=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-44=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-44=-63, 8-23=-20
   Horz: 1-2=-7200, 2-44=-7200, 3-44=-7200, 3-5=-7200, 5-6=-7200, 6-7=-7200
   Drag: 8-23=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-44=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-44=-63, 8-23=-20
Horz: 1-2=7200, 2-44=7200, 3-44=7200, 3-5=7200, 5-6=7200, 6-7=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-123-to-44=-63

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-70, 8-23=-20
Horz: 1-2=-7200, 2-44=-7200, 3-44=-7200, 3-5=-7200, 5-6=-7200, 6-7=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-130-to-44=-70

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-36, 8-23=-20
Horz: 1-2=7200, 2-44=7200, 3-44=7200, 3-5=7200, 5-6=7200, 6-7=7200
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-44=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-42, 8-23=-20
Horz: 1-2=-7200, 2-44=-7200, 3-44=-7200, 3-5=-7200, 5-6=-7200, 6-7=-7200
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-44=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-48, 8-23=-20
Horz: 1-23=13, 1-24=27, 1-2=7191, 2-44=7191, 3-44=7191, 3-5=7191, 5-6=7191, 6-7=7191, 7-8=3
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-44=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-54, 8-23=-20
Horz: 1-23=13, 1-24=27, 1-2=-7209, 2-44=-7209, 3-44=-7209, 3-5=-7209, 5-6=-7209, 6-7=-7209, 7-8=3
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-44=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-54, 8-23=-20
Horz: 1-23=-3, 1-24=-27, 1-2=7197, 2-44=7197, 3-44=7197, 3-5=7197, 5-6=7197, 6-7=7197, 7-8=-13
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-44=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-60, 8-23=-20
Horz: 1-23=-3, 1-24=-27, 1-2=-7203, 2-44=-7203, 3-44=-7203, 3-5=-7203, 5-6=-7203, 6-7=-7203, 7-8=-13
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-44=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-48, 8-23=-20
Horz: 1-23=10, 1-24=-18, 1-2=7191, 2-44=7191, 3-44=7191, 3-5=7191, 5-6=7191, 6-7=7191, 7-8=2
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-44=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-54, 8-23=-20
Horz: 1-23=10, 1-24=-18, 1-2=-7209, 2-44=-7209, 3-44=-7209, 3-5=-7209, 5-6=-7209, 6-7=-7209, 7-8=2
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-44=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 7-44=-54, 8-23=-20
Horz: 1-23=-2, 1-24=-18, 1-2=7197, 2-44=7197, 3-44=7197, 3-5=7197, 5-6=7197, 6-7=7197, 7-8=-10
Drag: 8-23=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-44=-54

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-44=-60, 8-23=-20
Horz: 1-23=-2, 1-24=-18, 1-2=-7203, 2-44=-7203, 3-44=-7203, 3-5=-7203, 5-6=-7203, 6-7=-7203, 7-8=-10
Drag: 8-23=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-44=-60

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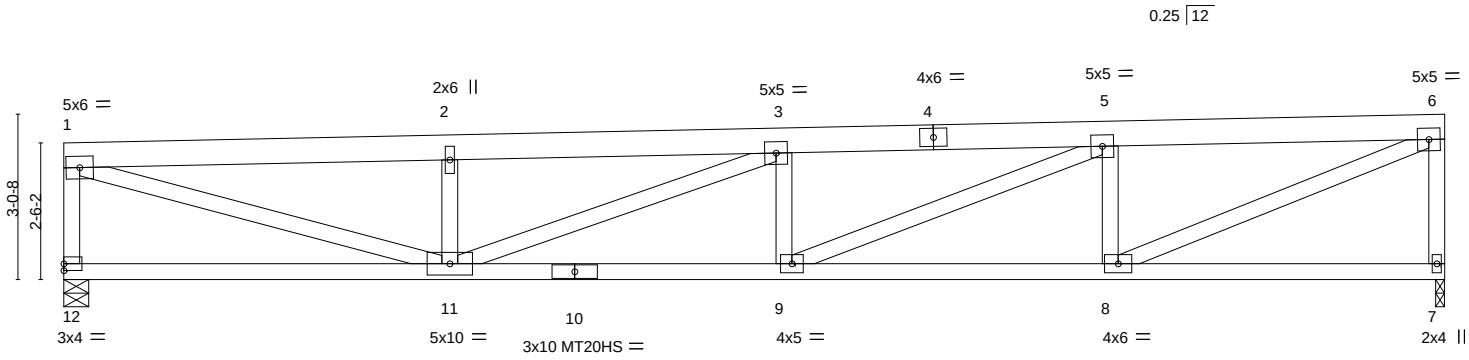
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M15	Monopitch	6	1	I51408884
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:35 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ohFH5HF0p9Cj3MM7QAHL2Q_1jm0MUuPSe5jyYzzQTNo

7-1-3	13-2-15	19-2-15	25-4-12
7-1-3	6-1-12	6-0-0	6-1-13

Scale = 1:42.4



7-1-3	13-2-15	19-2-15	25-4-11	25-4-12
7-1-3	6-1-12	6-0-0	6-1-12	0-0-1

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.17	9-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.35	9-11	>859	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 150 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-13 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-1-15
Max Horz 12=57(LC 12)
Max Grav 12=1235(LC 21), 7=1235(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1164/303, 1-2=-2850/623, 2-3=-2850/629, 3-5=-3275/720, 5-6=-2327/527, 6-7=-1175/301
BOT CHORD 9-11=-751/3270, 8-9=-533/2321
WEBS 1-11=-639/2881, 2-11=-548/240, 3-11=-458/103, 3-9=-285/159, 5-9=-236/1030, 5-8=-886/308, 6-8=-559/2489

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M16	Monopitch	5	1	I51408885
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:36 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-GtpgJdFeaTKagWxJ_toabeXAiATkDOOcsISW4QzQTNn

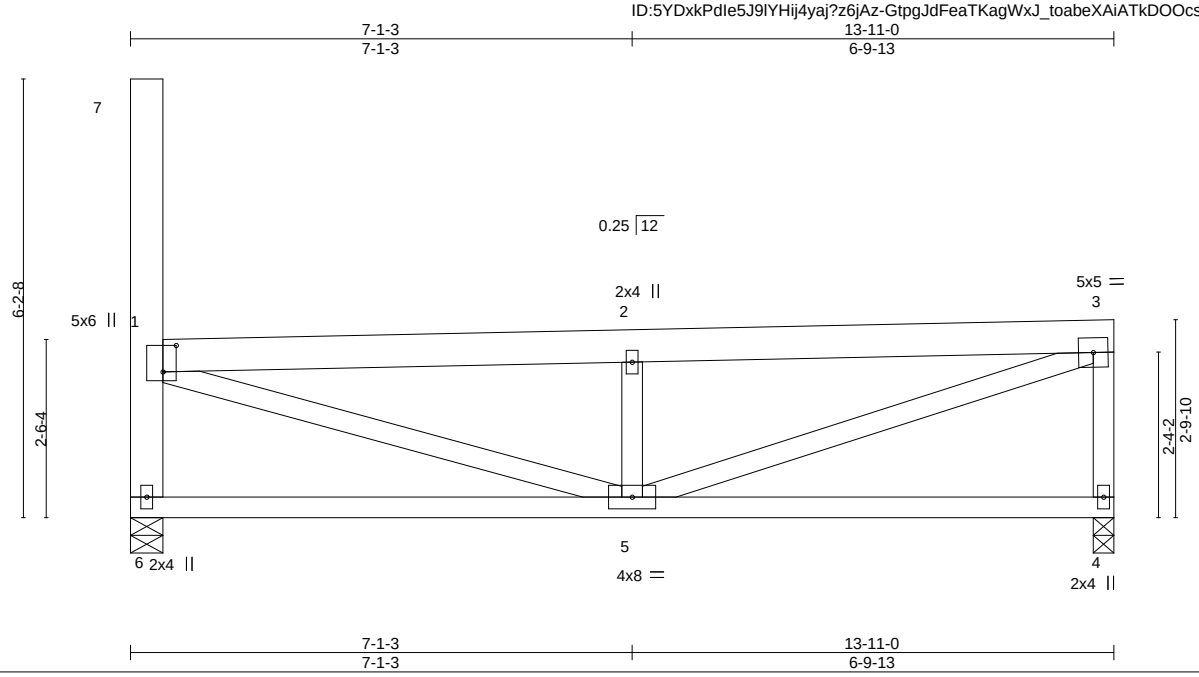

Plate Offsets (X,Y)-- [1:0-4-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.04	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	5-6	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 92 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-10 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=0-3-8
Max Horz 6=191(LC 12)
Max Uplift 6=-18(LC 11)
Max Grav 6=886(LC 21), 4=705(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-831/356, 1-2=-1315/551, 2-3=-1312/560, 3-4=-652/320
BOT CHORD 5-6=-425/484
WEBS 1-5=-580/1151, 2-5=-653/370, 3-5=-619/1389

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-60, 4-6=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-65, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-39, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-77, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-42, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=13, 1-7=27, 1-3=-9, 3-4=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-3, 1-7=-27, 1-3=-3, 3-4=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-51, 4-6=-20
Horz: 1-6=10, 1-7=-18, 1-3=-9, 3-4=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-3=-57, 4-6=-20
Horz: 1-6=-2, 1-7=-18, 1-3=-3, 3-4=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-3=-70, 4-6=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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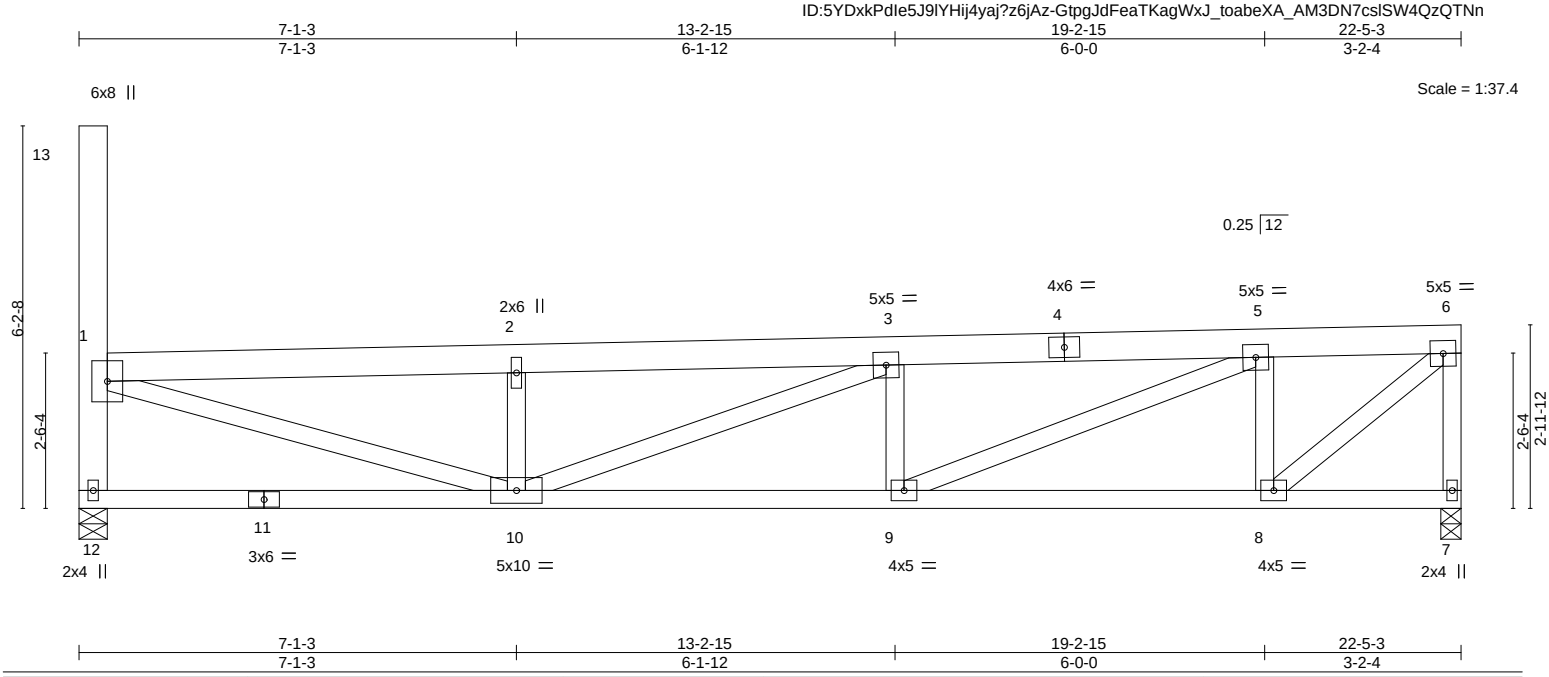
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M17	Monopitch	4	1	I51408886
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:36 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-GtpgJdFeaTKagWxJ_toabeXA_AM3DN7cslSW4QzQTNn



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.12	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.24	9-10	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-0 oc bracing.

REACTIONS. (size) 12=0-5-8, 7=0-3-15
Max Horz 12=195(LC 12)
Max Grav 12=1324(LC 21), 7=1106(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1252/349, 1-2=-2579/776, 2-3=-2575/783, 3-5=-2567/707, 5-6=-1238/317, 6-7=-1086/305
BOT CHORD 10-12=-387/463, 9-10=-748/2561, 8-9=-353/1234
WEBS 1-10=-705/2493, 2-10=-617/257, 3-9=-441/239, 5-9=-429/1441, 5-8=-945/349, 6-8=-438/1609

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-66, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-126-to-2=-66
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-39, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-2=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-78, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-158-to-2=-78
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-42, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-2=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=13, 1-13=27, 1-6=-9, 6-7=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-3, 1-13=-27, 1-6=-3, 6-7=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-51, 7-12=-20
      Horz: 1-12=10, 1-13=-18, 1-6=-9, 6-7=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-2=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-6=-57, 7-12=-20
      Horz: 1-12=-2, 1-13=-18, 1-6=-3, 6-7=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-2=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-6=-70, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-2=-70

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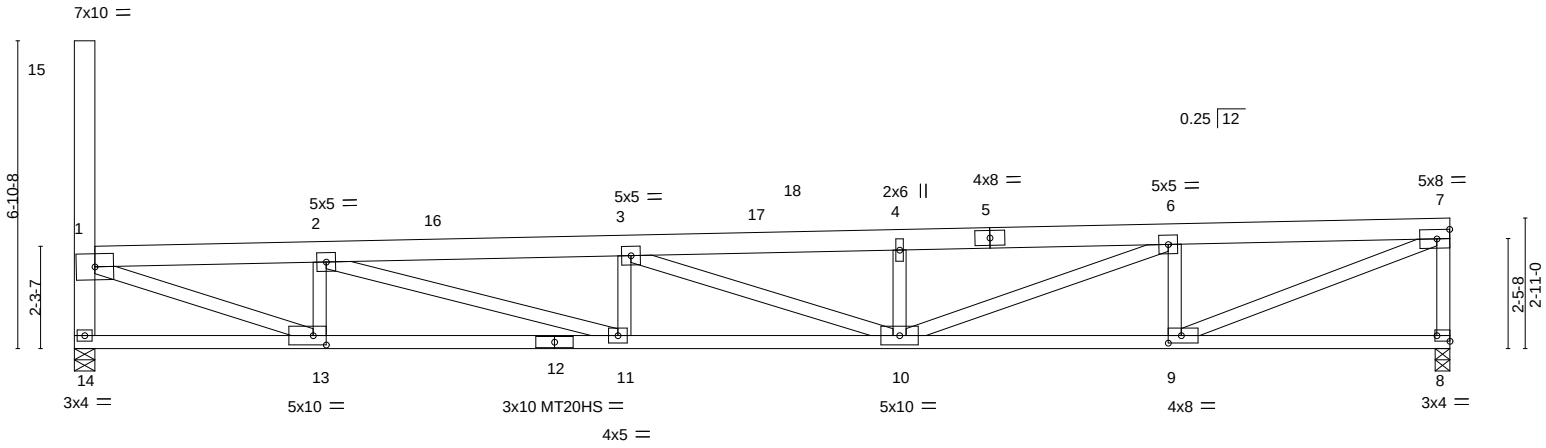
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M18	Monopitch	1	1	I51408887
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:37 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-k4N2WzGGLnSRIgWVYbJp7r3K5aisylcl5PC3cszQTNm

5-5-12 | 12-3-7 | 18-5-3 | 24-6-15 | 30-8-11
5-5-12 | 6-9-11 | 6-1-12 | 6-1-12 | 6-1-12

Scale = 1:51.5



5-5-12 | 12-3-7 | 18-5-3 | 24-6-15 | 30-8-11
5-5-12 | 6-9-11 | 6-1-12 | 6-1-12 | 6-1-12

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8], [8:Edge,0-1-8], [9:0-3-8,0-2-0], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.34	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.67	10-11	>541	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 191 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
8-12: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-13 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=226(LC 12)
Max Grav 14=1793(LC 21), 8=1535(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1735/326, 1-2=-3695/909, 2-3=-5396/1105, 3-4=-5027/970, 4-6=-5027/975, 6-7=-3179/593, 7-8=-1472/318
BOT CHORD 13-14=-469/574, 11-13=-965/3686, 10-11=-1155/5389, 9-10=-627/3173
WEBS 1-13=-671/3733, 2-13=-1160/304, 2-11=-495/1776, 3-11=-373/223, 3-10=-390/149, 4-10=-477/173, 6-10=-417/1986, 6-9=-1197/338, 7-9=-656/3383

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 15-6-15, Corner(3) 15-6-15 to 30-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-60, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-67, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-39, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-79, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-42, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 7-16=-51, 8-14=-20
      Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 7-16=-57, 8-14=-20
      Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 7-16=-51, 8-14=-20
      Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Trapezoidal Loads (plf)
      Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 7-16=-57, 8-14=-20
      Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Trapezoidal Loads (plf)
      Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 7-16=-70, 8-14=-20
   Trapezoidal Loads (plf)
      Vert: 1=-150-to-16=-70

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M19	Monopitch	7	1	I51408888
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:38 2022 Page 1
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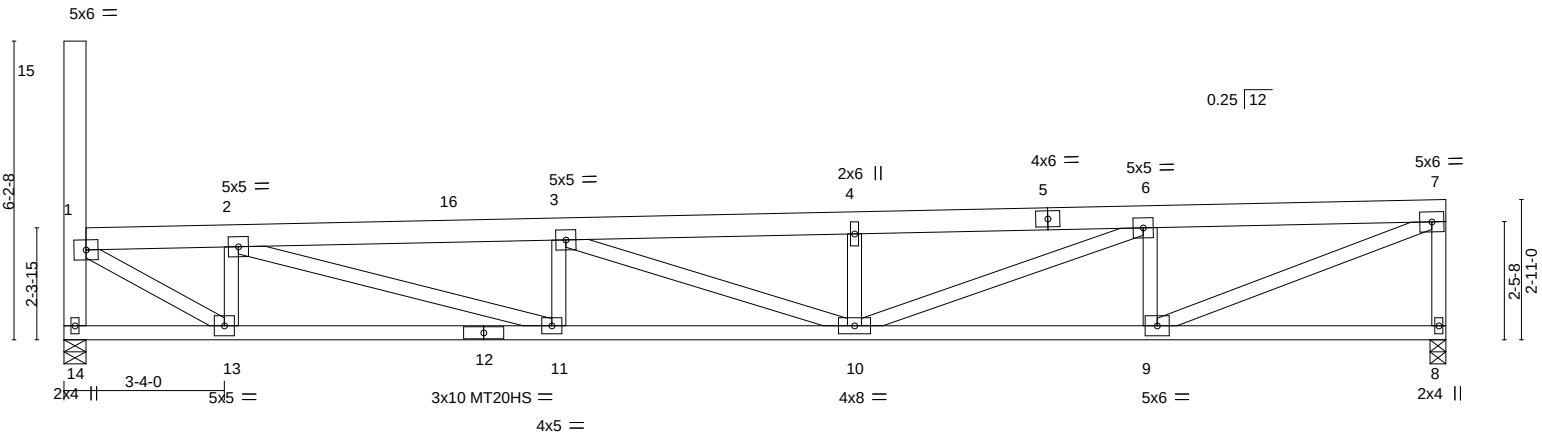
3-5-12	10-3-7	16-5-3	22-6-15	28-8-11
3-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Scale: 1/4"=1'



3-5-12	10-3-7	16-5-3	22-6-15	28-8-11
3-5-12	6-9-11	6-1-12	6-1-12	6-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.28	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.55	10-11	>621	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-12: 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-10 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=201(LC 12)
Max Grav 14=1686(LC 21), 8=1432(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1662/310, 1-2=-2449/689, 2-3=-4559/995, 3-4=-4501/927, 4-6=-4501/933, 6-7=-2924/583, 7-8=-1371/319
BOT CHORD 13-14=-370/461, 11-13=-746/2445, 10-11=-1046/4550, 9-10=-618/2918
WEBS 1-13=-474/2768, 2-13=-1311/308, 2-11=-567/2196, 3-11=-497/245, 4-10=-477/183, 6-10=-382/1694, 6-9=-1091/334, 7-9=-647/3109

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

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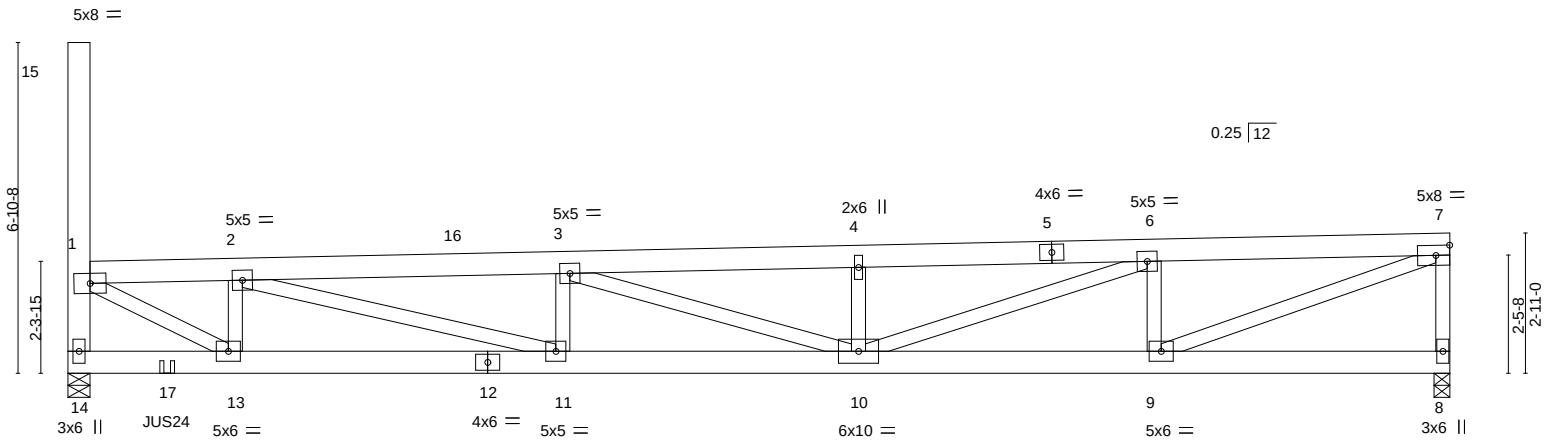
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M19G	Roof Special Girder	1	1	I51408889
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:40 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-9e2A9_I9eir098F4DjtWlUhrFnlo98PBnNQjDBzQTNj

3-5-12	10-3-7	16-5-3	22-6-15	28-8-11
3-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Scale: 1/4"=1'



3-5-12	10-3-7	16-5-3	22-6-15	28-8-11
3-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Plate Offsets (X,Y)-- [7:0-3-7,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.27	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.52	10-11	>656	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 203 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-10 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=223(LC 12)
Max Grav 14=1823(LC 21), 8=1442(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1711/348, 1-2=-2690/808, 2-3=-4777/1088, 3-4=-4681/993, 4-6=-4681/998, 6-7=-3034/618, 7-8=-1367/321
BOT CHORD 13-14=-470/601, 11-13=-864/2686, 10-11=-1138/4769, 9-10=-652/3028
WEBS 1-13=-540/2946, 2-13=-1276/309, 2-11=-621/2165, 3-11=-491/260, 4-10=-465/181, 6-10=-412/1761, 6-9=-1102/342, 7-9=-672/3201

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-120-to-16=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-67, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-127-to-16=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 1=-99-to-16=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-159-to-16=-79

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-122-to-16=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=27(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=27(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=27(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=27(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

Continued on page 3

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LOAD CASE(S) Standard

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 17=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 17=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 17=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 17=-103(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

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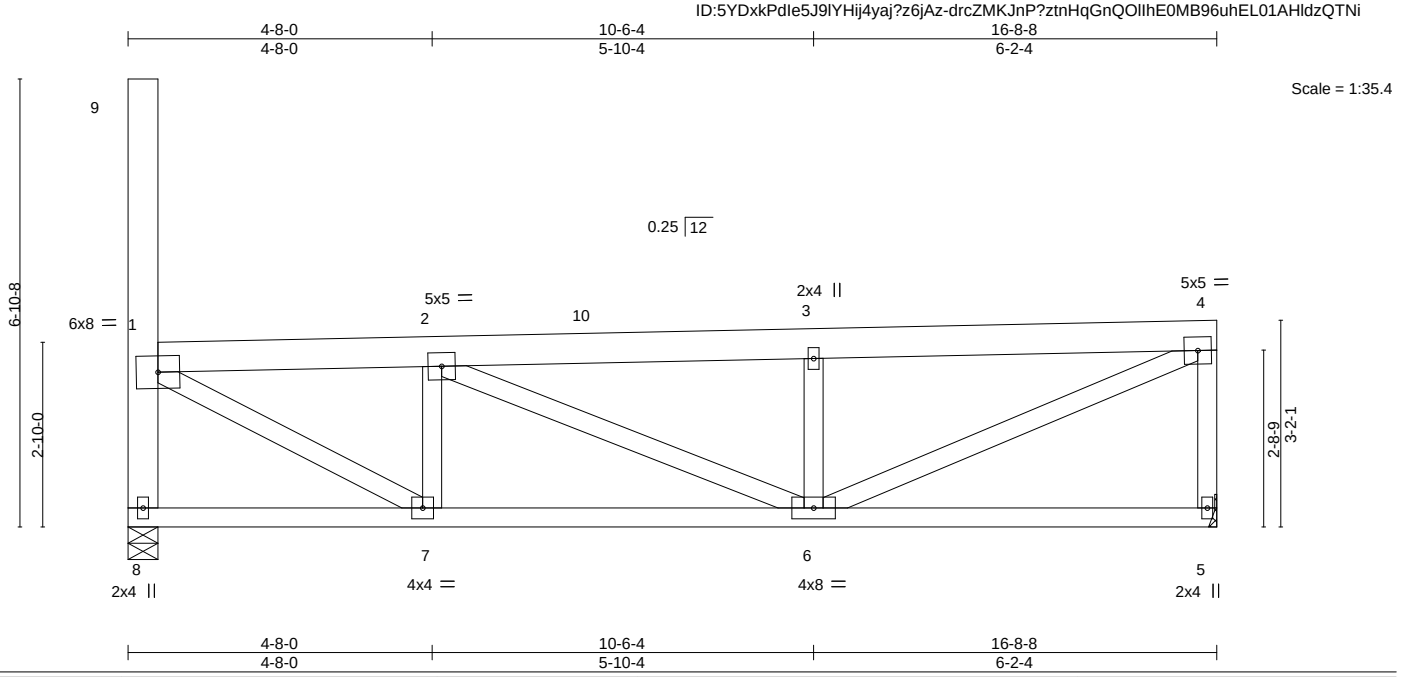
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M20	Monopitch	3	1	I51408890
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:41 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-drcZMKJnP?ztnHqGnQOlIhE0MB96uhEL01AHldzQTNi



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 113 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-11 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=Mechanical
Max Horz 8=212(LC 14)
Max Uplift 8=-14(LC 11)
Max Grav 8=1027(LC 21), 5=831(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-991/358, 1-2=-1256/585, 2-3=-1338/492, 3-4=-1339/499, 4-5=-782/335
BOT CHORD 7-8=-388/516, 6-7=-643/1249
WEBS 1-7=-423/1332, 2-7=-538/268, 2-6=-322/255, 3-6=-519/297, 4-6=-575/1469

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-60, 5-8=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-120-to-10=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-65, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-10=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-39, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-10=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-77, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-10=-77

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-42, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-10=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=13, 1-9=27, 1-4=-9, 4-5=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-3, 1-9=-27, 1-4=-3, 4-5=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-51, 5-8=-20
Horz: 1-8=10, 1-9=-18, 1-4=-9, 4-5=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-10=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-10=-57, 5-8=-20
Horz: 1-8=-2, 1-9=-18, 1-4=-3, 4-5=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-10=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-10=-70, 5-8=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-10=-70

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M20G	Jack-Closed Girder	1	1	I51408891
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:43 2022 Page 1
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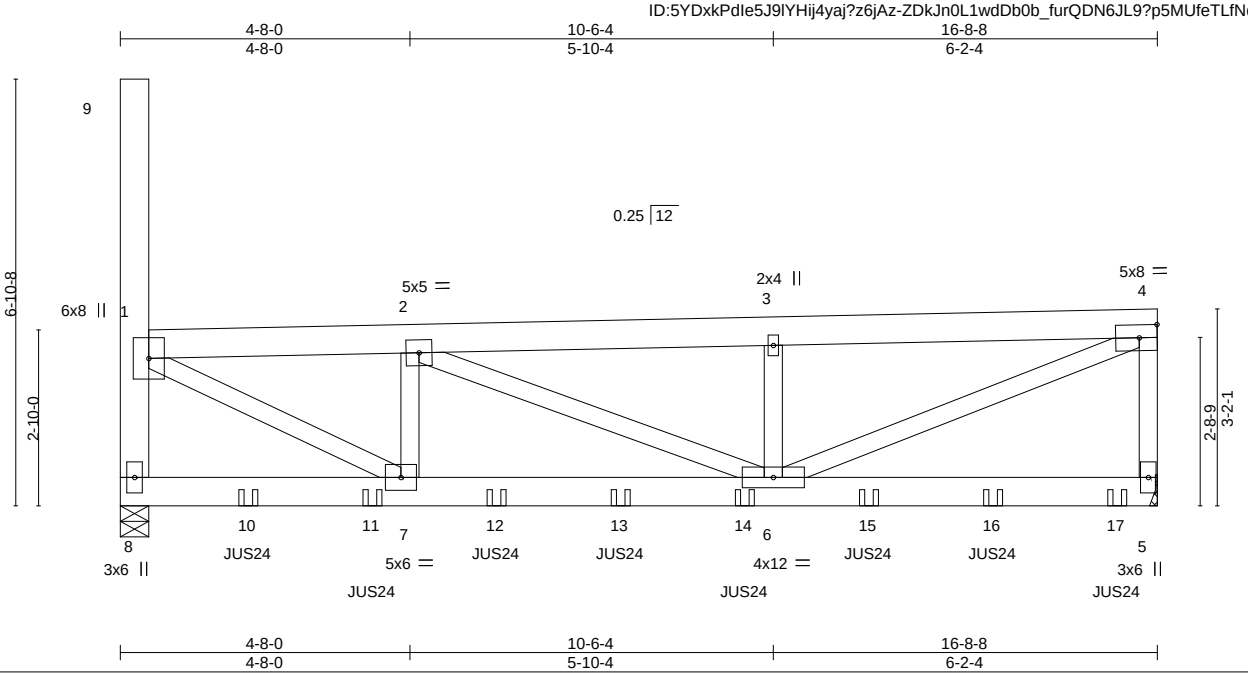

Plate Offsets (X,Y)-- [4:0-3-7,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.13	6-7	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.18	6-7	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 126 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-3 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=Mechanical
Max Horz 8=58(LC 12)
Max Uplift 8=-144(LC 11), 5=-500(LC 15)
Max Grav 8=1985(LC 21), 5=2085(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1869/420, 1-2=-2845/620, 2-3=-3284/765, 3-4=-3287/772, 4-5=-1798/438
BOT CHORD 6-7=-675/2837
WEBS 1-7=-671/3082, 2-7=-953/277, 2-6=-167/475, 3-6=-1053/291, 4-6=-850/3589

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=144, 5=500.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20

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LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 10=-146(F) 11=-146(F) 12=-146(F) 13=-146(F) 14=-146(F) 15=-146(F) 16=-146(F) 17=-151(F)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-120, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-117(F) 11=-117(F) 12=-117(F) 13=-117(F) 14=-117(F) 15=-117(F) 16=-117(F) 17=-122(F)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-125, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-117(F) 11=-117(F) 12=-117(F) 13=-117(F) 14=-117(F) 15=-117(F) 16=-117(F) 17=-122(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-99, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-117(F) 11=-117(F) 12=-117(F) 13=-117(F) 14=-117(F) 15=-117(F) 16=-117(F) 17=-122(F)

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-157, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-146(F) 11=-146(F) 12=-146(F) 13=-146(F) 14=-146(F) 15=-146(F) 16=-146(F) 17=-151(F)

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-122, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-146(F) 11=-146(F) 12=-146(F) 13=-146(F) 14=-146(F) 15=-146(F) 16=-146(F) 17=-151(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-4=-9, 4-5=3
Concentrated Loads (lb)
Vert: 10=37(F) 11=37(F) 12=38(F) 13=39(F) 14=40(F) 15=41(F) 16=42(F) 17=229(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-3, 1-4=-3, 4-5=-13
Concentrated Loads (lb)
Vert: 10=37(F) 11=37(F) 12=38(F) 13=39(F) 14=40(F) 15=41(F) 16=42(F) 17=229(F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-4=-9, 4-5=2
Concentrated Loads (lb)
Vert: 10=37(F) 11=37(F) 12=38(F) 13=39(F) 14=40(F) 15=41(F) 16=42(F) 17=229(F)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-2, 1-4=-3, 4-5=-10
Concentrated Loads (lb)
Vert: 10=37(F) 11=37(F) 12=38(F) 13=39(F) 14=40(F) 15=41(F) 16=42(F) 17=229(F)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-150, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-146(F) 11=-146(F) 12=-146(F) 13=-146(F) 14=-146(F) 15=-146(F) 16=-146(F) 17=-151(F)

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=13, 1-4=-9, 4-5=3
Concentrated Loads (lb)
Vert: 10=-112(F) 11=-113(F) 12=-113(F) 13=-114(F) 14=-115(F) 15=-116(F) 16=-117(F) 17=-380(F)

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-117, 5-8=-20
Horz: 1-8=-3, 1-4=-3, 4-5=-13
Concentrated Loads (lb)
Vert: 10=-112(F) 11=-113(F) 12=-113(F) 13=-114(F) 14=-115(F) 15=-116(F) 16=-117(F) 17=-380(F)

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-4=-111, 5-8=-20
Horz: 1-8=10, 1-4=-9, 4-5=2
Concentrated Loads (lb)
Vert: 10=-112(F) 11=-113(F) 12=-113(F) 13=-114(F) 14=-115(F) 15=-116(F) 16=-117(F) 17=-380(F)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408891
PRYOR-R2C	M20G	Jack-Closed Girder	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-117, 5-8=-20

Horz: 1-8=-2, 1-4=-3, 4-5=-10

Concentrated Loads (lb)

Vert: 10=-112(F) 11=-113(F) 12=-113(F) 13=-114(F) 14=-115(F) 15=-116(F) 16=-117(F) 17=-380(F)

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M21	Monopitch	4	1	I51408892
					Job Reference (optional)

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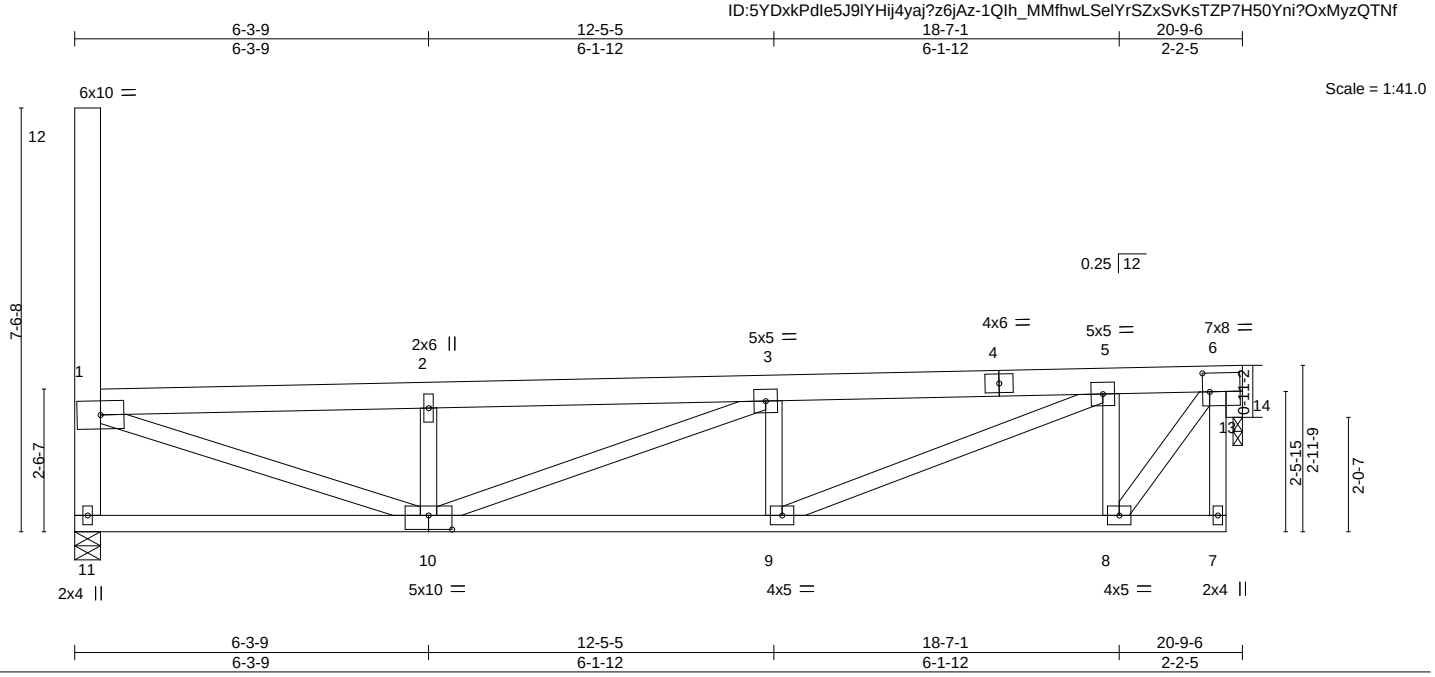

Plate Offsets (X,Y)-- [6:0-1-8,0-4-0], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.09	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	9-10	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 139 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 11-12: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-8-14 oc bracing.

REACTIONS. (size) 11=0-5-8, 14=0-2-0
Max Horz 11=237(LC 12)
Max Uplift 11=-4(LC 11)
Max Grav 11=1214(LC 22), 14=985(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1151/376, 1-2=-2146/843, 2-3=-2143/850, 3-5=-2196/725, 5-6=-909/272
BOT CHORD 10-11=-520/705, 9-10=-756/2191, 8-9=-298/904
WEBS 1-10=-700/2116, 2-10=-567/264, 3-10=-253/319, 3-9=-423/267, 5-9=-497/1398, 5-8=-1013/411, 6-8=-424/1362, 6-14=-1072/333

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-11=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-60, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-120-to-2=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-65, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-2=-65

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-39, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-99-to-2=-39

21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 2-6=-30, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-110-to-2=-30

22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-77, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-2=-77

23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-42, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-122-to-2=-42

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=13, 1-12=27, 1-6=-9, 7-13=3
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-3, 1-12=-27, 1-6=-3, 7-13=-13
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=10, 1-12=-18, 1-6=-9, 7-13=2
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-2, 1-12=-18, 1-6=-3, 7-13=-10
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-11=-20
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M21G	Roof Special Girder	1	1	I51408893
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:42:45 2022 Page 1
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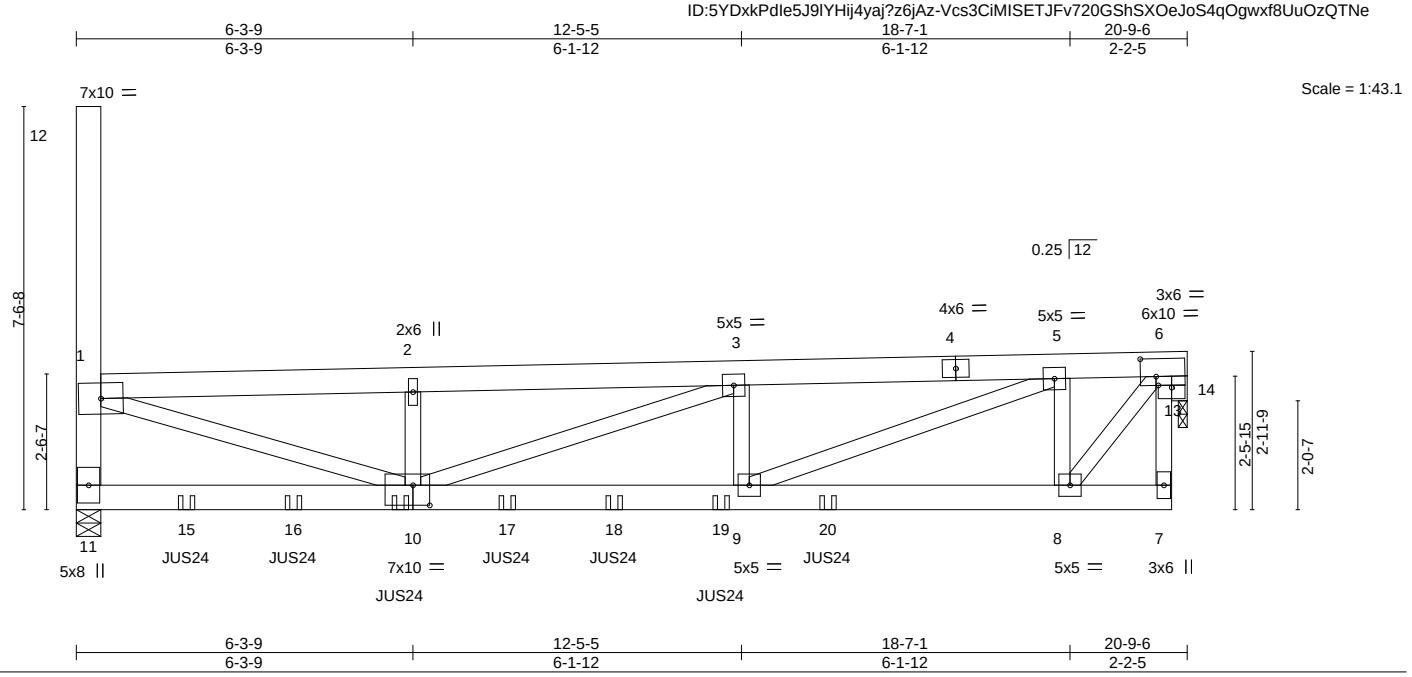

Plate Offsets (X,Y)-- [6:0-3-8,0-4-0], [10:0-3-12,0-4-8], [13:0-3-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.18	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.29	9-10	>858	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-12: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-4-11 oc bracing: 9-10.

REACTIONS. (size) 11=0-5-8, 14=0-2-0
Max Horz 11=235(LC 12)
Max Uplift 11=-162(LC 11), 14=-92(LC 15)
Max Grav 11=1844(LC 22), 14=1379(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-11=-1613/501, 1-2=-3545/1200, 2-3=-3541/1207, 3-5=-3593/1094, 5-6=-1340/388
BOT CHORD	10-11=-572/758, 9-10=-1124/3588, 8-9=-412/1333
WEBS	1-10=-1077/3452, 2-10=-535/269, 3-10=-263/320, 3-9=-422/267, 5-9=-769/2436, 5-8=-1415/514, 6-8=-574/1931, 6-14=-1509/447

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 11=162.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 23, 25, 26, 27, 28, 33, 50, 51, 52, 53 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-70, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 15=-146(F) 16=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-2=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-60, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 15=-117(F) 16=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-2=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-65, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 15=-117(F) 16=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-2=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-39, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-117(F) 15=-117(F) 16=-117(F) 17=-117(F) 18=-117(F) 19=-117(F) 20=-117(F)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-39
21) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 2-6=-30, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 15=-146(F) 16=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-110-to-2=-30
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-77, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 15=-146(F) 16=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-2=-77
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 2-6=-42, 7-11=-20
   Concentrated Loads (lb)
   Vert: 10=-146(F) 15=-146(F) 16=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-42
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-11=-20
   Horz: 1-11=13, 1-12=27, 1-6=-9, 7-13=3
   Concentrated Loads (lb)
   Vert: 10=32(F) 15=31(F) 16=32(F) 17=33(F) 18=34(F) 19=35(F) 20=36(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-57, 7-11=-20
   Horz: 1-11=-3, 1-12=-27, 1-6=-3, 7-13=-13
   Concentrated Loads (lb)
   Vert: 10=32(F) 15=31(F) 16=32(F) 17=33(F) 18=34(F) 19=35(F) 20=36(F)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-2=-57
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 2-6=-51, 7-11=-20
   Horz: 1-11=10, 1-12=-18, 1-6=-9, 7-13=2
   Concentrated Loads (lb)
   Vert: 10=32(F) 15=31(F) 16=32(F) 17=33(F) 18=34(F) 19=35(F) 20=36(F)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-2=-51
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-2, 1-12=-18, 1-6=-3, 7-13=-10
Concentrated Loads (lb)
Vert: 10=32(F) 15=31(F) 16=32(F) 17=33(F) 18=34(F) 19=35(F) 20=36(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-6=-70, 7-11=-20
Concentrated Loads (lb)
Vert: 10=-146(F) 15=-146(F) 16=-146(F) 17=-146(F) 18=-146(F) 19=-146(F) 20=-146(F)
Trapezoidal Loads (plf)
Vert: 1=-150-to-2=-70

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=13, 1-12=27, 1-6=-9, 7-13=3
Concentrated Loads (lb)
Vert: 10=-108(F) 15=-106(F) 16=-107(F) 17=-108(F) 18=-109(F) 19=-110(F) 20=-111(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-3, 1-12=-27, 1-6=-3, 7-13=-13
Concentrated Loads (lb)
Vert: 10=-108(F) 15=-106(F) 16=-107(F) 17=-108(F) 18=-109(F) 19=-110(F) 20=-111(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-51, 7-11=-20
Horz: 1-11=10, 1-12=-18, 1-6=-9, 7-13=2
Concentrated Loads (lb)
Vert: 10=-108(F) 15=-106(F) 16=-107(F) 17=-108(F) 18=-109(F) 19=-110(F) 20=-111(F)
Trapezoidal Loads (plf)
Vert: 1=-111-to-2=-51

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 2-6=-57, 7-11=-20
Horz: 1-11=-2, 1-12=-18, 1-6=-3, 7-13=-10
Concentrated Loads (lb)
Vert: 10=-108(F) 15=-106(F) 16=-107(F) 17=-108(F) 18=-109(F) 19=-110(F) 20=-111(F)
Trapezoidal Loads (plf)
Vert: 1=-117-to-2=-57

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	M21S	GABLE	1	1	I51408894
					Job Reference (optional)

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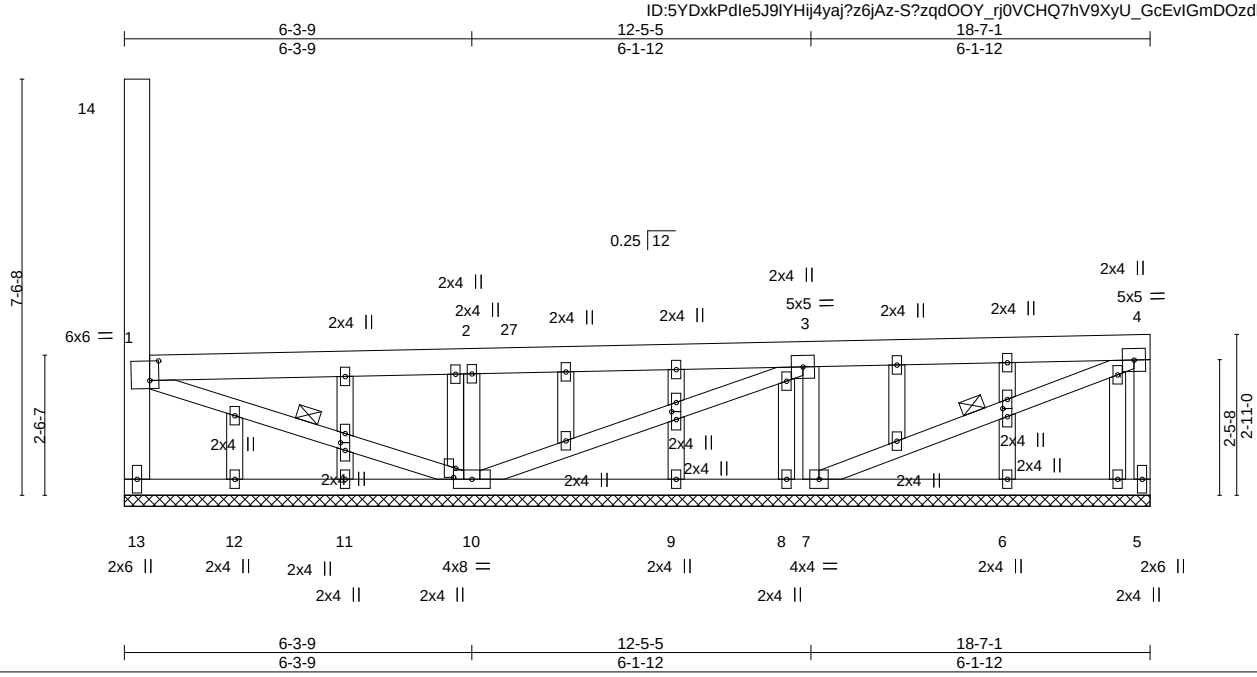

Plate Offsets (X,Y)-- [1:0-2-0,0-4-4], [10:0-2-0,0-0-7], [16:0-1-11,0-1-0], [22:0-1-12,0-1-0], [26:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 145 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 13-14: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-6-13 oc bracing.
WEBS	1 Row at midpt 1-10, 4-7

REACTIONS. All bearings 18-7-1.
(lb) - Max Horz 13=242(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 13=-591(LC 44), 5=-530(LC 53), 7=-118(LC 52)
Max Grav All reactions 250 lb or less at joint(s) 12, 11, 9, 6 except 13=717(LC 71), 5=599(LC 64), 10=684(LC 21), 7=604(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-13=-704/599, 1-2=-1367/1380, 2-3=-1338/1363, 3-4=-1183/1201, 4-5=-586/631
BOT CHORD	12-13=-835/705, 11-12=-1235/1105, 10-11=-1695/1564, 9-10=-1245/1221, 8-9=-504/480, 6-7=-1222/1221, 5-6=-510/510
WEBS	1-10=-1533/1608, 2-10=-579/314, 3-10=-1359/1331, 3-7=-749/724, 4-7=-1439/1421

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8 except (jt=lb) 13=591, 5=530, 7=118.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 73, 74, 75 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 18-7-1 for 200.0 plf.

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LOAD CASE(S) Standard

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-70, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-27=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-60, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-27=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-65, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-125-to-27=-65
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-39, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-27=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-77, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-157-to-27=-77
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-27=-42, 5-13=-20
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-27=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-51, 5-13=-20
   Horz: 1-13=13, 1-14=27, 1-4=-9, 4-5=3
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-27=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-57, 5-13=-20
   Horz: 1-13=-3, 1-14=-27, 1-4=-3, 4-5=-13
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-27=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-51, 5-13=-20
   Horz: 1-13=10, 1-14=-18, 1-4=-9, 4-5=2
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-27=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-57, 5-13=-20
   Horz: 1-13=-2, 1-14=-18, 1-4=-3, 4-5=-10
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-27=-57
34) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-57, 5-13=-20
   Horz: 1-2=7200, 2-27=7200, 4-27=7200
   Drag: 5-13=-150
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-27=-57
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-63, 5-13=-20
   Horz: 1-2=-7200, 2-27=-7200, 4-27=-7200
   Drag: 5-13=150
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-27=-63
36) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-27=-62, 5-13=-20
   Horz: 1-2=7200, 2-27=7200, 4-27=7200
   Drag: 5-13=-150
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-27=-62

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-69, 5-13=-20
Horz: 1-2=-7200, 2-27=-7200, 4-27=-7200
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-129-to-27=-69

38) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-36, 5-13=-20
Horz: 1-2=7200, 2-27=7200, 4-27=7200
Drag: 5-13=-150
Trapezoidal Loads (plf)
Vert: 1=-96-to-27=-36

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-42, 5-13=-20
Horz: 1-2=-7200, 2-27=-7200, 4-27=-7200
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-102-to-27=-42

68) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-48, 5-13=-20
Horz: 1-13=13, 1-14=27, 1-2=7191, 2-27=7191, 4-27=7191, 4-5=3
Drag: 5-13=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-27=-48

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-54, 5-13=-20
Horz: 1-13=13, 1-14=27, 1-2=-7209, 2-27=-7209, 4-27=-7209, 4-5=3
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-27=-54

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-54, 5-13=-20
Horz: 1-13=-3, 1-14=-27, 1-2=7197, 2-27=7197, 4-27=7197, 4-5=-13
Drag: 5-13=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-27=-54

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-60, 5-13=-20
Horz: 1-13=-3, 1-14=-27, 1-2=-7203, 2-27=-7203, 4-27=-7203, 4-5=-13
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-27=-60

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-48, 5-13=-20
Horz: 1-13=10, 1-14=-18, 1-2=7191, 2-27=7191, 4-27=7191, 4-5=2
Drag: 5-13=-150
Trapezoidal Loads (plf)
Vert: 1=-108-to-27=-48

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-54, 5-13=-20
Horz: 1-13=10, 1-14=-18, 1-2=-7209, 2-27=-7209, 4-27=-7209, 4-5=2
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-114-to-27=-54

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-54, 5-13=-20
Horz: 1-13=-2, 1-14=-18, 1-2=7197, 2-27=7197, 4-27=7197, 4-5=-10
Drag: 5-13=-150
Trapezoidal Loads (plf)
Vert: 1=-114-to-27=-54

Continued on page 4

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LOAD CASE(S) Standard

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 4-27=-60, 5-13=-20
Horz: 1-13=-2, 1-14=-18, 1-2=-7203, 2-27=-7203, 4-27=-7203, 4-5=-10
Drag: 5-13=150
Trapezoidal Loads (plf)
Vert: 1=-120-to-27=-60

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T1	Roof Special	2	1	I51408895
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:25 2022 Page 1
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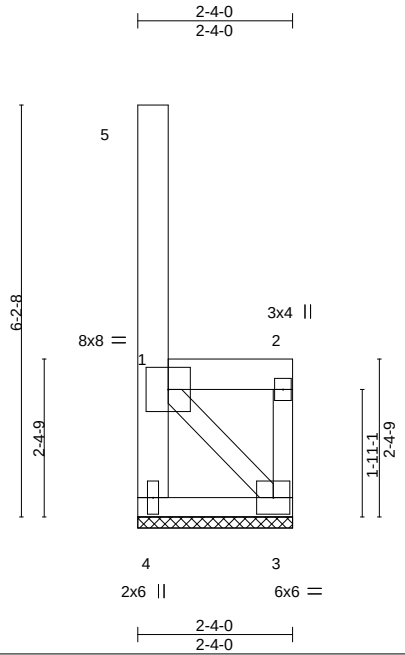

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-187(LC 11)
Max Uplift 4=-316(LC 11), 3=-316(LC 12)
Max Grav 4=368(LC 25), 3=368(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-407/947
BOT CHORD 3-4=-368/652
WEBS 1-3=-892/500

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=316, 3=316.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T2	Roof Special	2	1	I51408896
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:55 2022 Page 1
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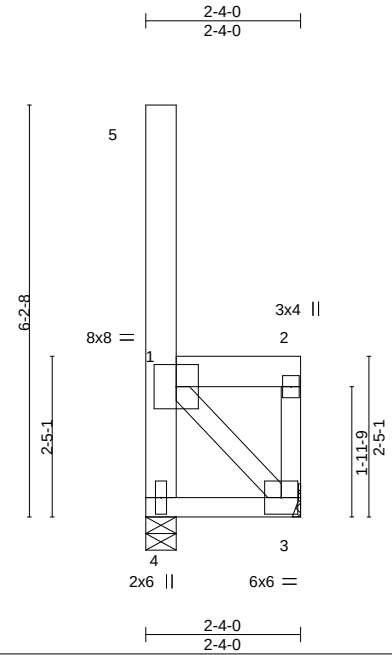

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=187(LC 12)
Max Uplift 4=-315(LC 11), 3=-315(LC 12)
Max Grav 4=368(LC 25), 3=368(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-403/945
BOT CHORD 3-4=-363/641
WEBS 1-3=-884/497

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=315, 3=315.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T3	GABLE	1	1	I51408897
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:11 2022 Page 1
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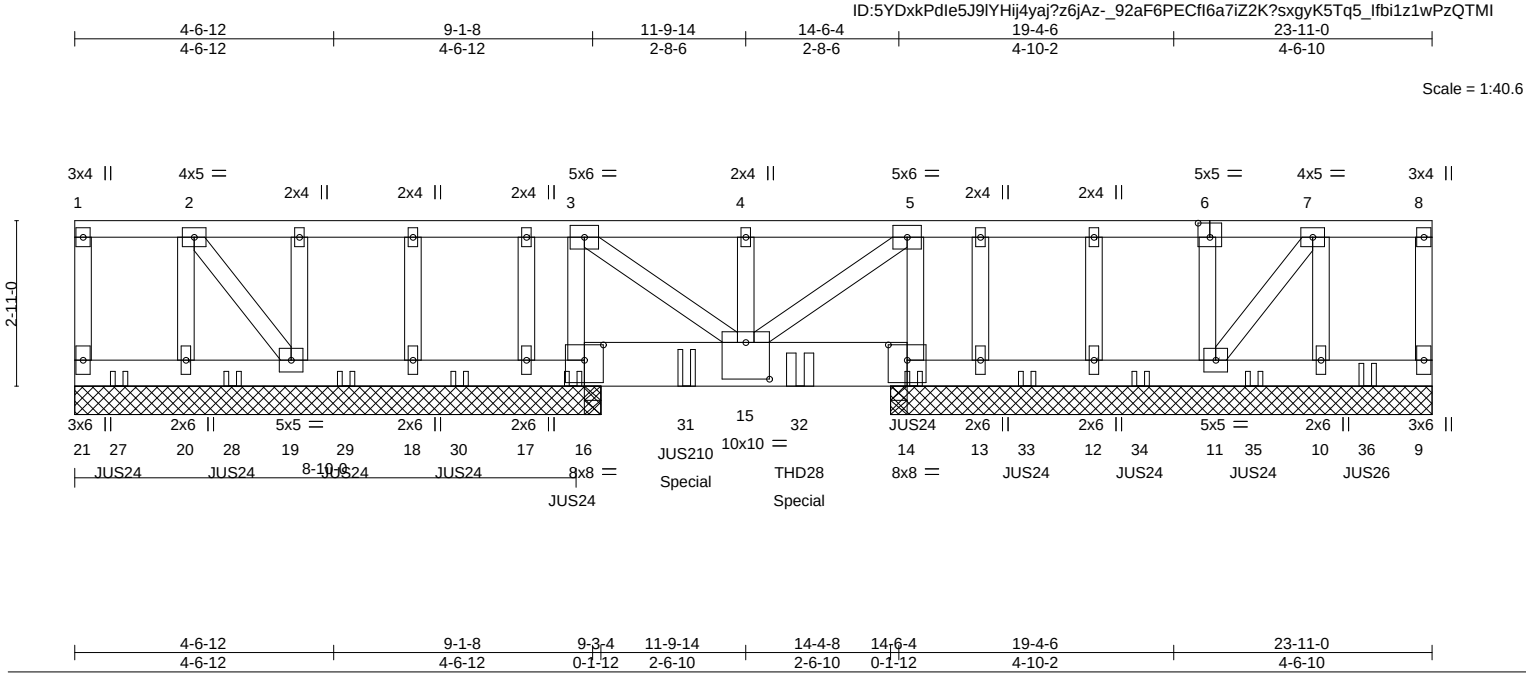

Plate Offsets (X,Y)-- [6:0-2-8,0-3-0], [14:0-4-0,0-3-4], [15:0-5-0,0-7-12], [16:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.03	15	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 160 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1 *Except*
14-16: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-5 oc bracing.

REACTIONS. All bearings 9-3-4 except (jt=length) 9=9-6-8, 14=9-6-8, 14=9-6-8, 13=9-6-8, 12=9-6-8, 11=9-6-8, 10=9-6-8.
(lb) - Max Horz 21=147(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 21, 9 except 16=-1062(LC 39), 14=-1142(LC 42), 17=-594(LC 33), 13=-296(LC 34)
Max Grav All reactions 250 lb or less at joint(s) 9, 17, 13 except 21=331(LC 34), 16=4569(LC 32), 16=3675(LC 1), 14=4467(LC 31), 14=3537(LC 1), 18=783(LC 1), 19=967(LC 1), 20=637(LC 1), 12=776(LC 1), 11=989(LC 1), 10=650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-353/357, 2-3=-1734/1755, 3-4=-1303/521, 4-5=-1268/475, 5-7=-1840/1862, 7-8=-348/349
BOT CHORD 20-21=-560/562, 19-20=-1039/1041, 18-19=-1602/1555, 17-18=-2067/2020, 16-17=-2374/2354, 15-16=-2550/2451, 14-15=-2535/2486, 13-14=-2378/2377, 12-13=-1996/1980, 11-12=-1531/1515, 10-11=-908/904, 9-10=-429/425
WEBS 3-15=-2685/3768, 5-15=-2700/3787, 3-16=-2626/1859, 5-14=-2654/1917, 2-19=-507/339, 7-11=-532/354

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 9 except (jt=lb) 16=1062, 14=1142, 17=594, 13=296.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-1-8, 14-6-4 to 23-11-0 for 258.3 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408897
PRYOR-R2C	T3	GABLE	1	1	Job Reference (optional)

NOTES-

11) Use USP JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent at 10-9-6 from the left end to connect truss(es) to front face of bottom chord.
12) Use USP THD28 (With 28-16d nails into Girder & 16-10d x 1-1/2 nails into Truss) or equivalent at 12-9-6 from the left end to connect truss(es) to front face of bottom chord.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 6-0-0 oc max. starting at 0-9-6 from the left end to 20-9-6 to connect truss(es) to back face of bottom chord.
14) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 22-9-6 from the left end to connect truss(es) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 9-21=-20
   Concentrated Loads (lb)
   Vert: 16=-558(B) 14=-558(B) 27=-562(B) 28=-558(B) 29=-558(B) 30=-558(B) 31=-1773(F=-1215, B=-558) 32=-2116(F=-1558, B=-558) 33=-558(B) 34=-558(B) 35=-558(B) 36=-558(B)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF) I51408898
PRYOR-R2C	T4	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:28 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-_Qa?pwcvCtRh6kVqYOpr7F9DBKe5TzI5dAbR0wzQTM1

5-0-5 | 10-0-10 | 12-9-0 | 15-5-6 | 20-5-11 | 25-6-0
5-0-5 | 5-0-5 | 2-8-6 | 2-8-6 | 5-0-5 | 5-0-5

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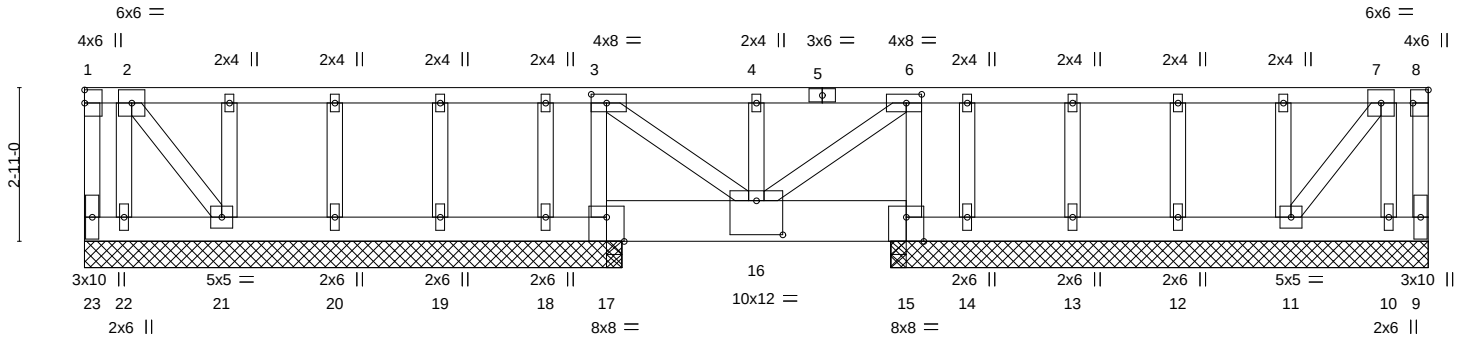

5-0-5 | 10-0-10 | 10-2-6 | 12-9-0 | 15-3-10 | 15-5-6 | 20-5-11 | 25-6-0
5-0-5 | 5-0-5 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 5-0-5 | 5-0-5

Plate Offsets (X,Y)-- [3:0-3-8,0-2-0], [6:0-3-8,0-2-0], [8:Edge,0-3-8], [15:0-4-0,Edge], [16:0-6-0,0-7-12], [17:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.01	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.02	16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.01	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 172 lb	FT = 3%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 15-17: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 5-3-12 oc bracing: 18-19 4-7-2 oc bracing: 17-18 4-7-9 oc bracing: 14-15 5-4-5 oc bracing: 13-14.

REACTIONS. All bearings 10-2-6.
(lb) - Max Horz 23=-144(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 23=-790(LC 31), 9=-784(LC 32), 17=-1636(LC 39), 15=-1645(LC 42), 18=-811(LC 63), 21=-413(LC 42), 22=-194(LC 62), 14=-806(LC 64), 11=-411(LC 41), 10=-191(LC 61)
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 22, 14, 13, 12, 10 except 23=593(LC 42), 9=581(LC 39), 17=5070(LC 64), 17=3771(LC 1), 15=5089(LC 63), 15=3771(LC 1), 21=1038(LC 31), 11=1035(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-23=-567/675, 2-3=-1803/1863, 3-4=-1240/546, 4-6=-1238/543, 6-7=-1852/1912, 8-9=-565/672
BOT CHORD	21-22=-679/678, 20-21=-1115/1103, 19-20=-1665/1560, 18-19=-2173/2118, 17-18=-2437/2407, 16-17=-2676/2557, 15-16=-2638/2519, 14-15=-2392/2367, 13-14=-2132/2077, 12-13=-1625/1519, 11-12=-1063/1063, 10-11=-548/548
WEBS	3-16=-3177/4059, 6-16=-3240/4122, 3-17=-2896/2288, 6-15=-2936/2327, 2-21=-1201/908, 7-11=-1197/905

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 790 lb uplift at joint 23, 784 lb uplift at joint 9, 1636 lb uplift at joint 17, 1645 lb uplift at joint 15, 811 lb uplift at joint 18, 413 lb uplift at joint 21, 194 lb uplift at joint 22, 806 lb uplift at joint 14, 411 lb uplift at joint 11 and 191 lb uplift at joint 10.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408898
PRYOR-R2C	T4	GABLE	1	1	Job Reference (optional)

NOTES-

9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-0-10, 15-5-6 to 25-6-0 for 253.7 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-70, 17-23=-20, 15-17=-920(F=-900), 9-15=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T5	GABLE	1	1	I51408899
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:39 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-AYkA7hlocGq7xQryhCVQ4a7AtlUUYzmi8OlWunzQTLs

23-5-8
23-5-8

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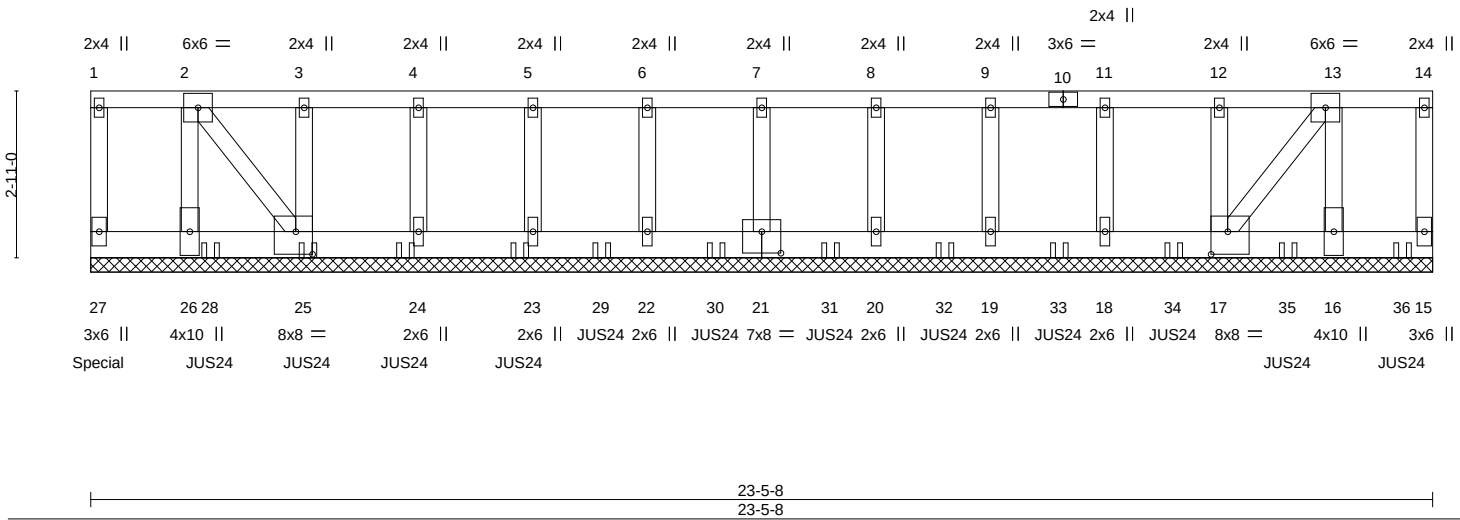

23-5-8
23-5-8

Plate Offsets (X,Y)-- [17:0-3-8,0-4-12], [21:0-4-0,0-4-8], [25:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	-0.01	21	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 140 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 23-5-8.
(lb) - Max Horz 27=54(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 27, 15 except 25=-2649(LC 42), 26=-2564(LC 39), 17=-2662(LC 39), 16=-2551(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 27=607(LC 32), 15=463(LC 31), 21=723(LC 1), 22=796(LC 1), 23=957(LC 1), 24=664(LC 1), 25=3233(LC 59), 26=3030(LC 60), 20=742(LC 1), 19=738(LC 1), 18=736(LC 1), 17=3183(LC 60), 16=3036(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-293/296, 2-3=-2011/2014, 3-4=-1607/1605, 4-5=-1211/1214, 5-6=-811/814, 6-7=-411/414, 7-8=-411/414, 8-9=-811/814, 9-11=-1211/1214, 11-12=-1607/1605, 12-13=-2011/2014, 13-14=-288/283
BOT CHORD	26-27=-299/333, 25-26=-730/733, 24-25=-1636/1627, 23-24=-1236/1206, 22-23=-836/827, 21-22=-436/427, 20-21=-436/427, 19-20=-836/827, 18-19=-1236/1227, 17-18=-1636/1627, 16-17=-687/689, 15-16=-287/289
WEBS	2-26=-2790/2775, 13-16=-2823/2817, 2-25=-3729/3729, 13-17=-3687/3680

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 15 except (jt=lb) 25=2649, 26=2564, 17=2662, 16=2551.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 23-5-8 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-2 from the left end to 22-11-3 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 569 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-70, 15-27=-20
   Concentrated Loads (lb)
   Vert: 27=-569(B) 23=-558(B) 24=-558(B) 25=-558(B) 28=-558(B) 29=-558(B) 30=-558(B) 31=-558(B) 32=-558(B) 33=-558(B) 34=-558(B) 35=-558(B) 36=-564(B)

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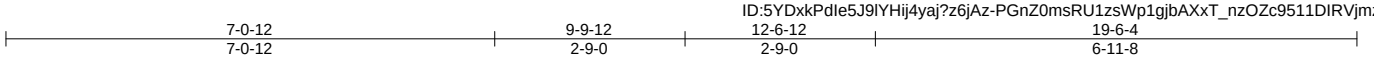
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T6	GABLE	1	1	I51408900
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:48 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-PGnZ0msRU1zsWp1gjbAXxT_nzOZc9511DIRVjmzQTLj



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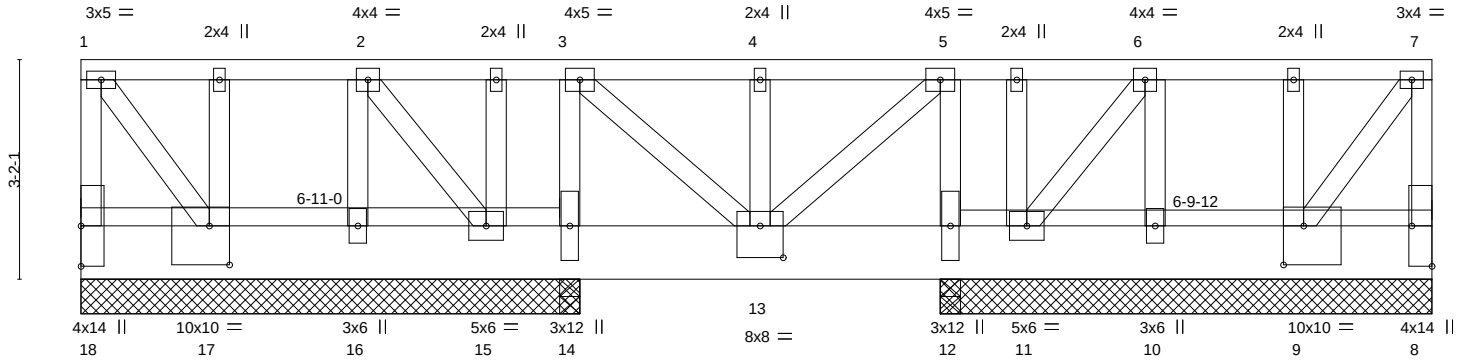

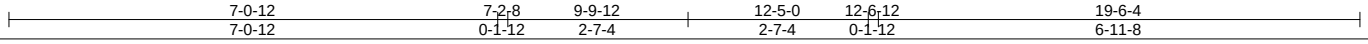

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [9:0-3-8,0-6-12], [13:0-4-0,0-5-8], [17:0-3-8,0-6-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.02	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8 except (jt=length) 8=7-1-4, 12=7-1-4, 12=7-1-4, 9=7-1-4, 10=7-1-4, 11=7-1-4.
(lb) - Max Horz 18=-56(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1191(LC 43), 8=-1166(LC 42), 14=-954(LC 39), 12=-948(LC 42), 9=-1117(LC 39), 11=-1506(LC 63), 17=-1133(LC 42), 15=-1354(LC 64)
Max Grav All reactions 250 lb or less at joint(s) except 18=1177(LC 60), 8=1166(LC 59), 14=5191(LC 64), 14=4314(LC 1), 12=5362(LC 63), 12=4469(LC 1), 9=1221(LC 46), 10=278(LC 63), 17=1242(LC 43), 16=285(LC 63)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1157/1213, 1-2=-660/699, 2-3=-730/769, 3-4=-1023/663, 4-5=-1036/676, 5-6=-739/779, 6-7=-677/717, 7-8=-1150/1208
BOT CHORD	17-18=-549/523, 16-17=-415/365, 15-16=-934/867, 14-15=-1314/1246, 13-14=-1314/1246, 12-13=-1280/1247, 11-12=-1280/1247, 10-11=-928/849, 9-10=-408/358, 8-9=-497/495
WEBS	3-13=-1931/2484, 5-13=-1962/2516, 3-14=-1839/1446, 5-12=-1859/1465, 2-15=-342/202, 6-11=-339/200, 1-17=-1487/1418, 7-9=-1440/1358

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1191 lb uplift at joint 18, 1166 lb uplift at joint 8, 954 lb uplift at joint 14, 948 lb uplift at joint 12, 1117 lb uplift at joint 9, 1506 lb uplift at joint 11, 1133 lb uplift at joint 17 and 1354 lb uplift at joint 15.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-0-0, 12-7-0 to 19-6-4 for 280.1 plf.

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408900
PRYOR-R2C	T6	GABLE	1	1	Job Reference (optional)

NOTES-

10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-970(F=-950), 8-12=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T7	GABLE	1	1	I51408901
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:57 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-e?qzvrz5No5a5BDPl_qeoNsHB0eam9IMHB6TXkzQTLa

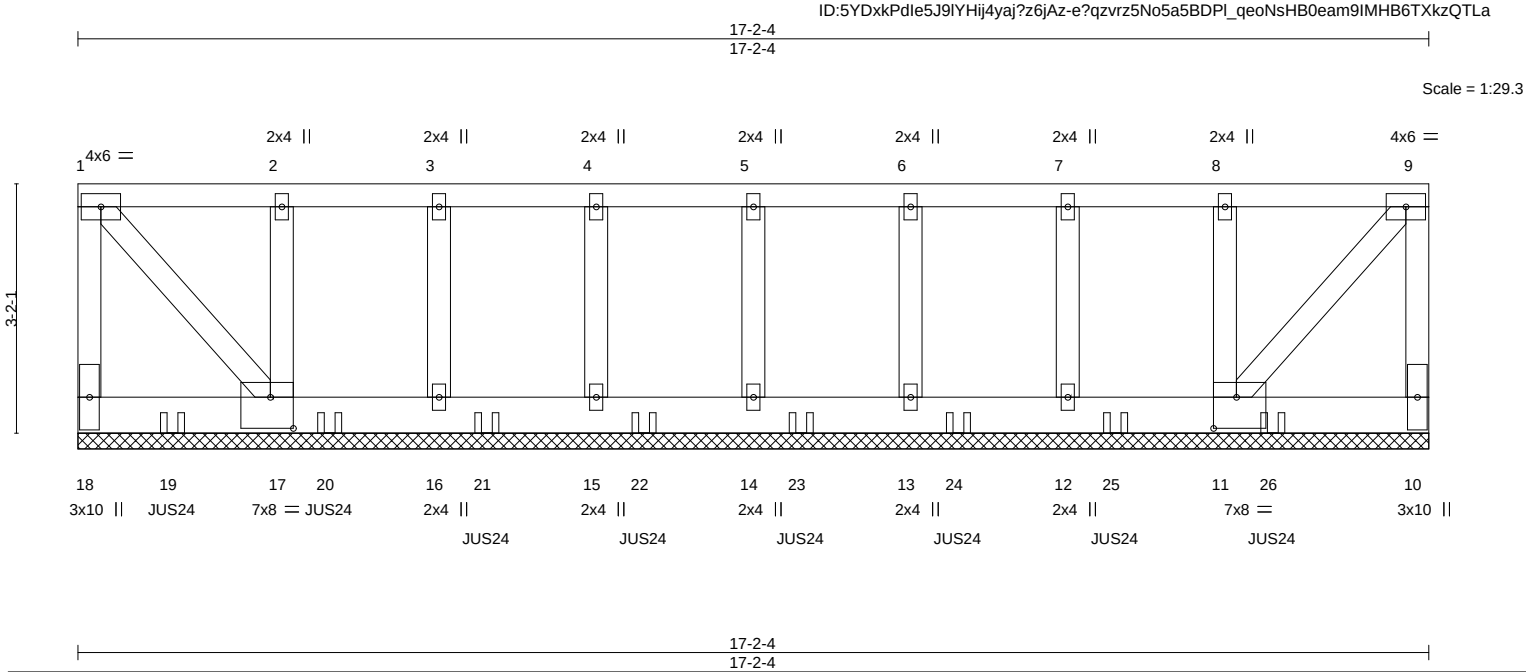

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 108 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-2-4.
(lb) - Max Horz 18=-60(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1918(LC 39), 10=-1926(LC 42), 17=-1852(LC 42), 11=-1851(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2025(LC 60), 10=1988(LC 59), 14=441(LC 1), 15=459(LC 1), 16=399(LC 1), 17=2229(LC 59), 13=456(LC 1), 12=411(LC 1), 11=2212(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1962/1954, 1-2=-1649/1650, 2-3=-1209/1210, 3-4=-809/810, 4-5=-409/410, 5-6=-409/410, 6-7=-809/810, 7-8=-1209/1210, 8-9=-1649/1650, 9-10=-1981/1983
BOT CHORD	17-18=-566/570, 16-17=-1239/1238, 15-16=-839/838, 14-15=-439/438, 13-14=-439/438, 12-13=-839/838, 11-12=-1239/1238, 10-11=-513/514
WEBS	1-17=-2630/2631, 9-11=-2589/2587

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1918 lb uplift at joint 18, 1926 lb uplift at joint 10, 1852 lb uplift at joint 17 and 1851 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-2-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-7 from the left end to 15-2-7 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-267(F) 20=-267(F) 21=-267(F) 22=-267(F) 23=-267(F) 24=-267(F) 25=-267(F) 26=-267(F)

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T8	GABLE	1	1	I51408902
					Job Reference (optional)

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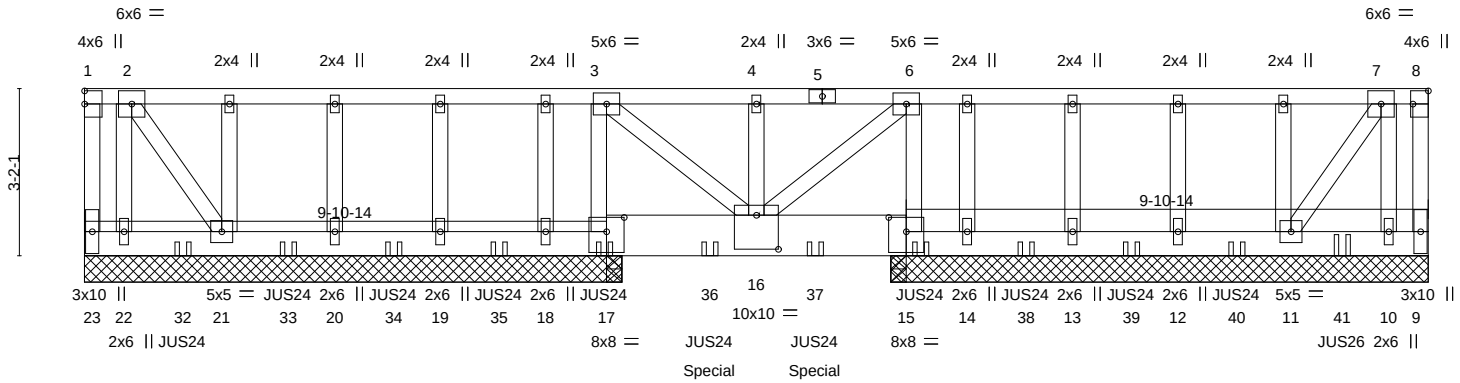
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-p7?7Cb5_nAU0vtZWuoXDlhp38SK3r4s_pPHYQczQTLP

10-0-10 | 12-9-0 | 15-5-6 | 25-6-0
10-0-10 | 2-8-6 | 2-8-6 | 10-0-10

Scale = 1:43.7



10-0-10 | 10-2-6 | 12-9-0 | 15-3-10 | 15-5-6 | 25-6-0
10-0-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 10-0-10

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [15:0-4-0,0-3-4], [16:0-5-0,0-7-12], [17:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.01	16	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.02	16	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.01	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 179 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
15-17: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
5-4-2 oc bracing: 18-19
4-10-2 oc bracing: 17-18
4-10-14 oc bracing: 14-15
5-5-9 oc bracing: 13-14.

REACTIONS. All bearings 10-2-6.
(lb) - Max Horz 23=-149(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 23=-902(LC 31), 9=-921(LC 32), 17=-1380(LC 39), 15=-1337(LC 42), 18=-248(LC 33), 21=-263(LC 40), 22=-111(LC 46), 14=-364(LC 34), 11=-265(LC 41)
Max Grav All reactions 250 lb or less at joint(s) 18, 14 except 23=545(LC 42), 9=528(LC 39), 17=4332(LC 32), 17=3235(LC 1), 15=4532(LC 31), 15=3459(LC 1), 19=713(LC 1), 20=588(LC 1), 21=1571(LC 31), 22=435(LC 33), 13=728(LC 1), 12=589(LC 1), 11=1556(LC 32), 10=526(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-556/678, 2-3=-1813/1865, 3-4=-1097/685, 4-6=-1095/683, 6-7=-1868/1920, 8-9=-557/675
BOT CHORD 21-22=-700/702, 20-21=-1171/1110, 19-20=-1678/1618, 18-19=-2135/2074, 17-18=-2468/2432, 16-17=-2640/2538, 15-16=-2577/2504, 14-15=-2425/2398, 13-14=-2085/2039, 12-13=-1628/1583, 11-12=-1121/1075, 10-11=-564/565
WEBS 3-16=-2851/3757, 6-16=-2820/3760, 3-17=-2813/2087, 6-15=-2814/2137, 2-21=-1172/870, 7-11=-1169/871

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 23=902, 9=921, 17=1380, 15=1337, 18=248, 21=263, 22=111, 14=364, 11=265.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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Chesterfield, MO 63017

NOTES-

10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 10-0-10, 15-5-6 to 25-6-0 for 253.7 plf.
11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-7 from the left end to 21-10-7 to connect truss(es) to front face of bottom chord.
12) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 23-10-7 from the left end to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 9-23=-20
   Concentrated Loads (lb)
   Vert: 17=-558(F) 15=-558(F) 32=-558(F) 33=-558(F) 34=-558(F) 35=-558(F) 36=-1773(F=-558, B=-1215) 37=-1773(F=-558, B=-1215) 38=-558(F) 39=-558(F) 40=-558(F) 41=-558(F)

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T9	GABLE	1	1	I51408903
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:19 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-?E9HWMEuBYtSkZve1cDoh0n?Dt8sw1ibLcReJTzQTLE

23-8-8
23-8-8

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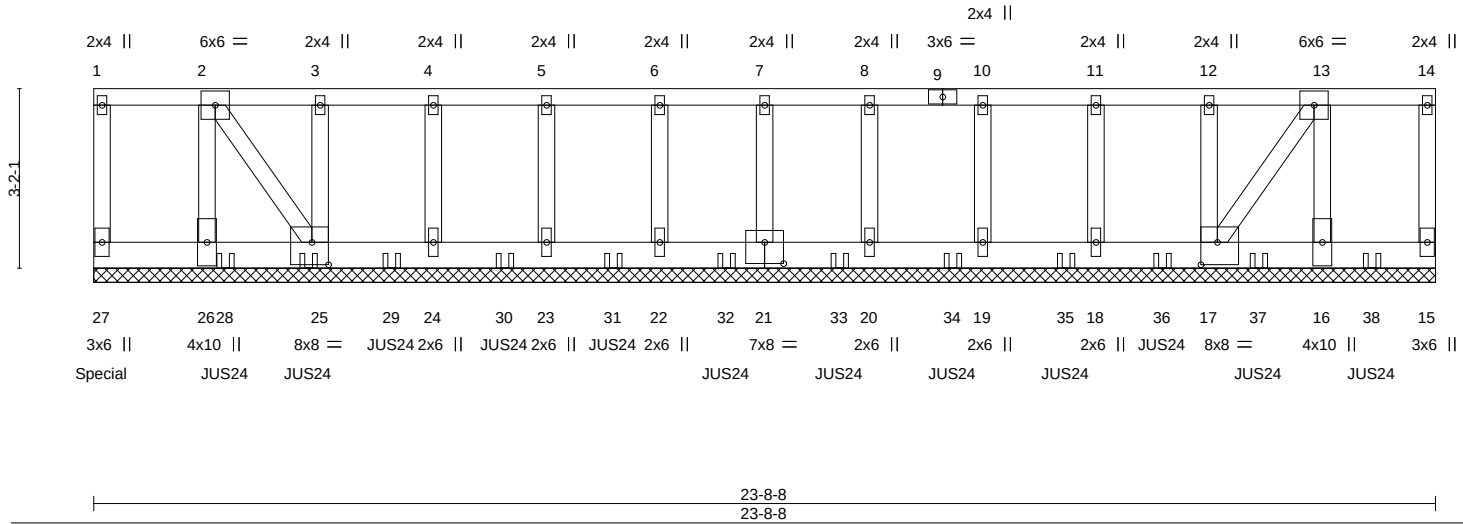

23-8-8
23-8-8

Plate Offsets (X,Y)-- [17:0-3-8,0-4-12], [21:0-4-0,0-4-8], [25:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	-0.00	21	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 23-8-8.
(lb) - Max Horz 27=-60(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) 15 except 16=-2872(LC 42), 17=-2969(LC 39), 26=-2917(LC 39), 25=-2934(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except 27=623(LC 32), 15=314(LC 31), 21=666(LC 1), 16=3422(LC 59), 17=3543(LC 60), 18=825(LC 1), 19=727(LC 1), 20=720(LC 1), 26=3352(LC 60), 25=3641(LC 59), 24=769(LC 1), 23=762(LC 1), 22=716(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-354/357, 2-3=-1982/1985, 3-4=-1578/1575, 4-5=-1182/1185, 5-6=-782/785, 6-7=-382/385, 7-8=-382/385, 8-10=-782/785, 10-11=-1182/1185, 11-12=-1578/1575, 12-13=-1982/1985, 13-14=-348/343
BOT CHORD	26-27=-395/398, 25-26=-795/798, 24-25=-1611/1602, 23-24=-1211/1202, 22-23=-811/802, 21-22=-411/402, 20-21=-411/402, 19-20=-811/802, 18-19=-1211/1202, 17-18=-1611/1602, 16-17=-747/750, 15-16=-347/350
WEBS	13-16=-3165/3160, 2-26=-3130/3114, 2-25=-4022/4021, 13-17=-3975/3966

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 16=2872, 17=2969, 26=2917, 25=2934.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408903
PRYOR-R2C	T9	GABLE	1	1	Job Reference (optional)

NOTES-

12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 23-8-8 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-15 from the left end to 22-7-1 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 566 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-14=-70, 15-27=-20
   Concentrated Loads (lb)
   Vert: 27=-566(F) 25=-558(F) 28=-558(F) 29=-558(F) 30=-558(F) 31=-558(F) 32=-558(F) 33=-558(F) 34=-558(F) 35=-558(F) 36=-558(F) 37=-558(F) 38=-558(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

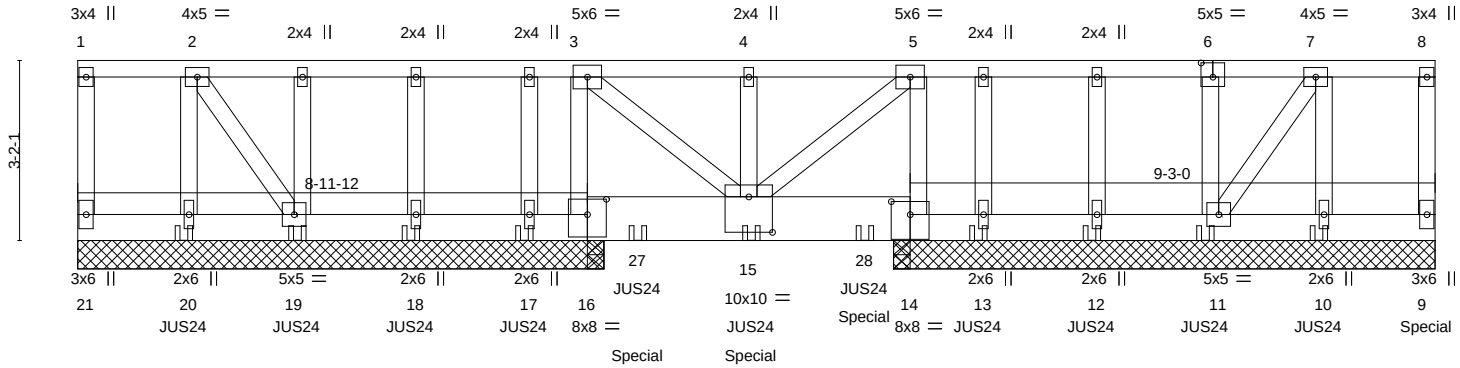
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T10	GABLE	1	1	I51408904
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:28 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-ltyKDPuGKSuCwWwI1okmhcg_389BPrwGqr3GvPzQTMz

9-1-8 (9-1-8) | 11-9-14 (2-8-6) | 14-6-4 (2-8-6) | 23-11-0 (9-4-12)

Scale = 1:40.6



9-1-8 (9-1-8) | 9-3-4 (0-1-12) | 11-9-14 (2-6-10) | 14-4-8 (2-6-10) | 14-6-4 (0-1-12) | 23-11-0 (9-4-12)

Plate Offsets (X,Y)-- [6:0-2-8,0-3-0], [14:0-4-0,0-2-12], [15:0-5-0,0-7-8], [16:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.02	15	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1 *Except*
14-16: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.

REACTIONS. All bearings 9-3-4 except (jt=length) 9=9-6-8, 14=9-6-8, 14=9-6-8, 13=9-6-8, 12=9-6-8, 11=9-6-8, 10=9-6-8.
(lb) - Max Horz 21=-152(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 21=-124(LC 59), 16=-1326(LC 39), 14=-1347(LC 42), 17=-573(LC 33), 13=-128(LC 34)
Max Grav All reactions 250 lb or less at joint(s) 21, 17, 13 except 9=568(LC 33), 16=4584(LC 32), 16=3509(LC 1), 14=4703(LC 31), 14=3625(LC 1), 18=408(LC 1), 19=702(LC 1), 20=328(LC 33), 12=705(LC 1), 11=1013(LC 1), 10=609(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-364/369, 2-3=-1732/1754, 3-4=-1118/565, 4-5=-1083/517, 5-7=-1844/1866, 7-8=-358/360
BOT CHORD 20-21=-576/577, 19-20=-1054/1031, 18-19=-1616/1569, 17-18=-2132/2086, 16-17=-2387/2370, 15-16=-2555/2457, 14-15=-2542/2483, 13-14=-2376/2378, 12-13=-2047/2032, 11-12=-1531/1515, 10-11=-919/911, 9-10=-440/435
WEBS 3-15=-2907/3793, 5-15=-2910/3810, 3-16=-2723/2093, 5-14=-2739/2159, 2-19=-494/327, 7-11=-519/343

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 21=124, 16=1326, 14=1347, 17=573, 13=128.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-1-8, 14-6-4 to 23-11-0 for 258.3 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408904
PRYOR-R2C	T10	GABLE	1	1	Job Reference (optional)

NOTES-

11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-7 from the left end to 21-10-7 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 569 lb down at 23-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 9-21=-20
   Concentrated Loads (lb)
   Vert: 9=-569(F) 15=-1481(F=-267, B=-1215) 17=-267(F) 18=-267(F) 19=-267(F) 20=-267(F) 13=-558(F) 12=-558(F) 11=-558(F) 10=-558(F) 27=-1481(F=-267, B=-1215) 28=-1825(F=-267, B=-1558)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

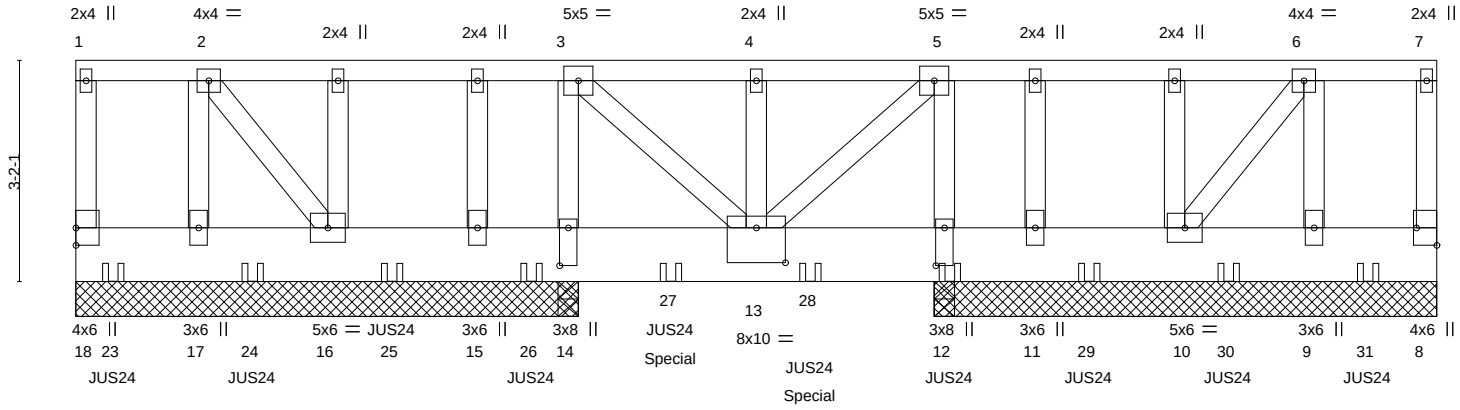
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T11	GABLE	1	1	I51408905
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:31 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-9SeSsRw8dNGnnzetiwHTJEIZrLHgcEyiWpHwVkzQTMw

7-0-12 | 9-9-2 | 12-5-8 | 19-6-4
7-0-12 | 2-8-6 | 2-8-6 | 7-0-12

Scale = 1:33.0



7-0-12 | 7-2-8 | 9-9-2 | 12-3-12 | 12-5-8 | 19-6-4
7-0-12 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 7-0-12

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-6-8,0-1-8], [13:0-5-0,0-6-0], [14:0-6-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 158 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8.
(lb) - Max Horz 18=-79(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 14=-1143(LC 39), 12=-1242(LC 42), 15=-1001(LC 1), 11=-876(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 14=4647(LC 32), 14=3709(LC 1), 12=4279(LC 31), 12=3287(LC 1), 16=828(LC 1), 10=806(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-382/385, 2-3=-1440/1447, 3-4=-898/485, 4-5=-898/485, 5-6=-1491/1494, 6-7=-375/374
BOT CHORD	17-18=-539/542, 16-17=-1052/1055, 15-16=-1638/1568, 14-15=-2015/1980, 13-14=-2015/1980, 12-13=-1978/1982, 11-12=-1978/1982, 10-11=-1559/1563, 9-10=-981/981, 8-9=-469/468
WEBS	3-14=-2350/1880, 3-13=-2469/3125, 5-13=-2481/3125, 5-12=-2350/1930, 2-16=-368/247, 6-10=-368/246

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1143 lb uplift at joint 14, 1242 lb uplift at joint 12, 1001 lb uplift at joint 15 and 876 lb uplift at joint 11.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-0-12, 12-5-8 to 19-6-4 for 276.4 plf.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-7 from the left end to 18-6-7 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 8-18=-20
   Concentrated Loads (lb)
   Vert: 12=-267(F) 23=-273(F) 24=-267(F) 25=-267(F) 26=-267(F) 27=-1825(F=-267, B=-1558) 28=-1825(F=-267, B=-1558) 29=-267(F) 30=-267(F) 31=-268(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

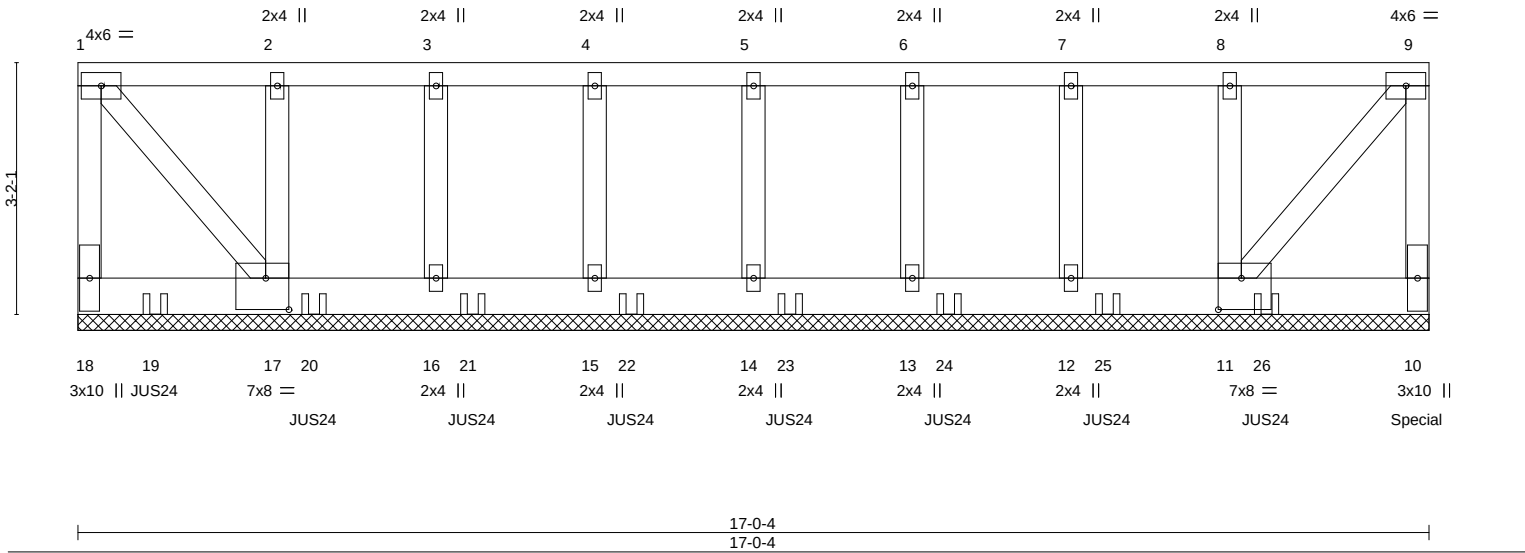
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T12	GABLE	1	1	I51408906
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:35 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-2EtzhozfhbmCFbyfxmMPU4TGkyfTY39HRRF7fVzQTMs

17-0-4
17-0-4

Scale = 1:29.0



17-0-4
17-0-4

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 107 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-0-4.
(lb) - Max Horz 18=-60(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1960(LC 39), 10=-1911(LC 42), 17=-1902(LC 42), 11=-1902(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2085(LC 60), 10=2168(LC 59), 14=442(LC 1), 15=458(LC 1), 16=405(LC 1), 17=2269(LC 59), 13=454(LC 1), 12=418(LC 1), 11=2249(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-2009/2003, 1-2=-1634/1635, 2-3=-1209/1209, 3-4=-809/809, 4-5=-409/409, 5-6=-409/409, 6-7=-809/809, 7-8=-1209/1209, 8-9=-1634/1635, 9-10=-2029/2030
BOT CHORD 17-18=-550/553, 16-17=-1239/1239, 15-16=-839/839, 14-15=-439/439, 13-14=-439/439, 12-13=-839/839, 11-12=-1239/1239, 10-11=-497/497
WEBS 1-17=-2656/2658, 9-11=-2615/2614

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1960 lb uplift at joint 18, 1911 lb uplift at joint 10, 1902 lb uplift at joint 17 and 1902 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-0-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-11 from the left end to 14-11-11 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 278 lb down at 16-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 10=-278(F) 19=-268(F) 20=-267(F) 21=-267(F) 22=-267(F) 23=-267(F) 24=-267(F) 25=-267(F) 26=-267(F)

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Chesterfield, MO 63017

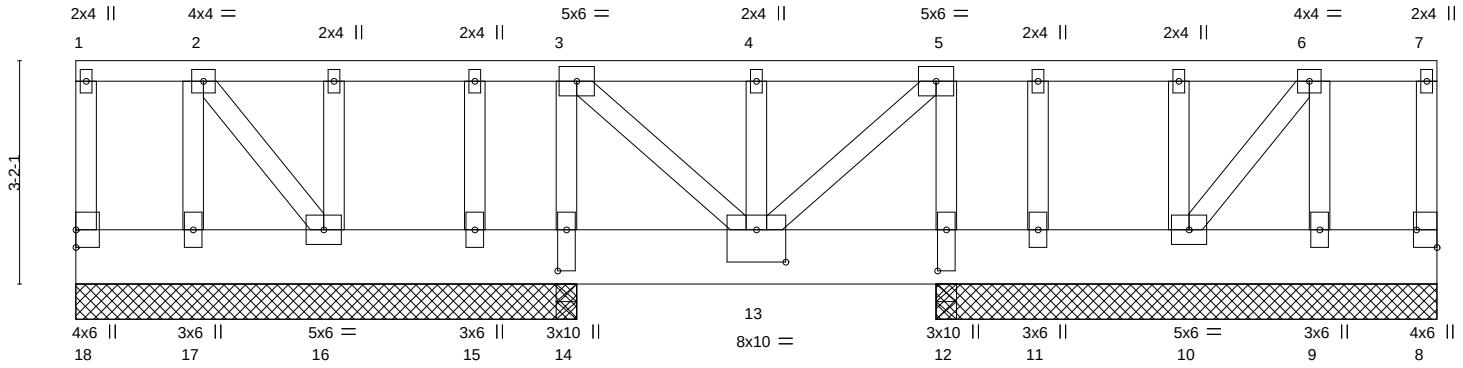
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T13	GABLE	1	1	I51408907
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:37 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-_c?j6U?vCD0wVu613BOtZVYbNmKC0xOaulkEjNzQTMq

6-11-10 | 9-8-0 | 12-4-6 | 19-4-0
6-11-10 | 2-8-6 | 2-8-6 | 6-11-10

Scale = 1:32.7



6-11-10 | 7-1-6 | 9-8-0 | 12-2-10 | 12-4-6 | 19-4-0
6-11-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 6-11-10

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-7-0,0-1-8], [13:0-5-0,0-5-8], [14:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6.
(lb) - Max Horz 18=79(LC 42)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 14=-1710(LC 39), 12=-1710(LC 42), 15=-1273(LC 63), 11=-1273(LC 63)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 14=5378(LC 64), 14=3997(LC 1), 12=5398(LC 63), 12=3997(LC 1), 16=553(LC 1), 10=553(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-363/366, 2-3=-1420/1426, 3-4=-987/622, 4-5=-987/622, 5-6=-1471/1473, 6-7=-356/355
BOT CHORD	17-18=-515/489, 16-17=-1030/1033, 15-16=-1633/1572, 14-15=-1994/1959, 13-14=-1994/1959, 12-13=-1957/1962, 11-12=-1957/1962, 10-11=-1596/1600, 9-10=-959/958, 8-9=-441/439
WEBS	3-14=-2565/2202, 3-13=-2857/3367, 5-13=-2929/3438, 5-12=-2616/2253, 2-16=-370/252, 6-10=-370/250

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 14=1710, 12=1710, 15=1273, 11=1273.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-11-10, 12-4-6 to 19-4-0 for 277.4 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

April 15,2022

Continued on page 2

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408907
PRYOR-R2C	T13	GABLE	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-920(F=-900), 8-12=-20

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Chesterfield, MO 63017

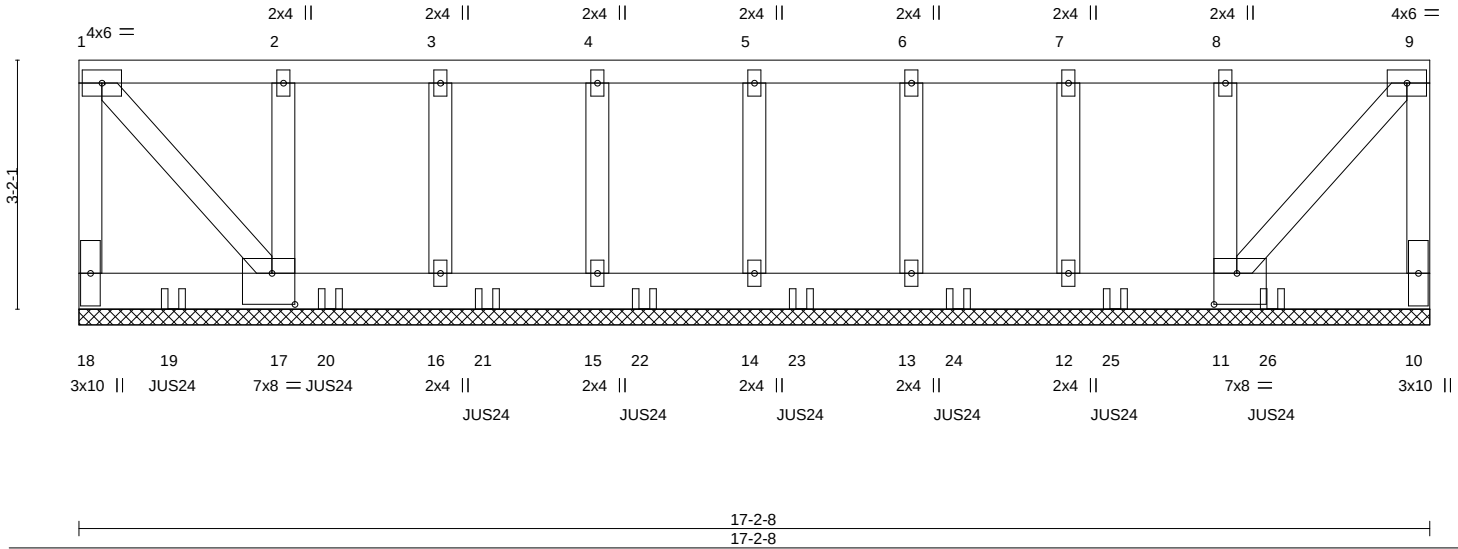
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T14	GABLE	1	1	I51408908
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:40 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-OBgskW1oV8OVMMqckJyaB8A6ezMZDKD1ajzuKizQTMn

17-2-8
17-2-8

Scale = 1:29.4



17-2-8
17-2-8

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 108 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-2-8.
(lb) - Max Horz 18=-60(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1912(LC 39), 10=-1920(LC 42), 17=-1846(LC 42), 11=-1845(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2020(LC 60), 10=1982(LC 59), 14=441(LC 1), 15=460(LC 1), 16=398(LC 1), 17=2224(LC 59), 13=456(LC 1), 12=411(LC 1), 11=2207(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1956/1949, 1-2=-1651/1652, 2-3=-1209/1210, 3-4=-809/810, 4-5=-409/410, 5-6=-409/410, 6-7=-809/810, 7-8=-1209/1210, 8-9=-1651/1652, 9-10=-1976/1977
BOT CHORD	17-18=-569/572, 16-17=-1239/1238, 15-16=-839/838, 14-15=-439/438, 13-14=-439/438, 12-13=-839/838, 11-12=-1239/1238, 10-11=-515/516
WEBS	1-17=-2626/2628, 9-11=-2586/2584

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1912 lb uplift at joint 18, 1920 lb uplift at joint 10, 1846 lb uplift at joint 17 and 1845 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-2-8 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-7 from the left end to 15-2-7 to connect truss(es) to front face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408908
PRYOR-R2C	T14	GABLE	1	1	Job Reference (optional)

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-267(F) 20=-267(F) 21=-267(F) 22=-267(F) 23=-267(F) 24=-267(F) 25=-267(F) 26=-267(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

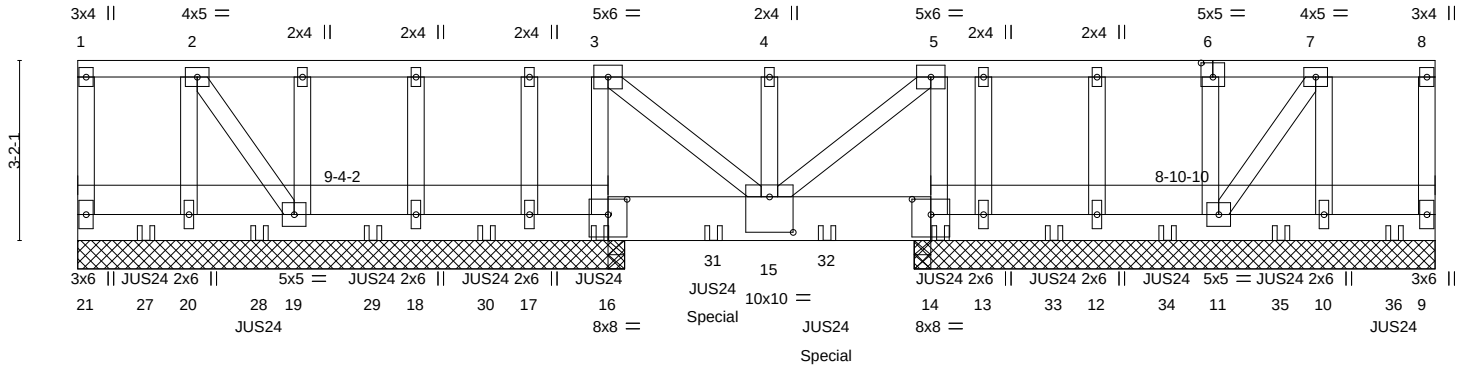
Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T15	GABLE	1	1	I51408909
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:43 2022 Page 1

ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-pmM?NX3go3n4DpZBPSVHomoX0BIhQegTGgBZx1zQTMk

9-5-14 | 12-2-4 | 14-10-10 | 23-11-0
9-5-14 | 2-8-6 | 2-8-6 | 9-0-6

Scale = 1:40.6



9-5-14 | 9-7-10 | 12-2-4 | 14-8-14 | 14-10-10 | 23-11-0
9-5-14 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 9-0-6

Plate Offsets (X,Y)-- [6:0-2-8,0-3-0], [14:0-4-0,0-3-4], [15:0-5-0,0-7-8], [16:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.02	15	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 166 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1 *Except* 14-16: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-3 oc bracing.

REACTIONS. All bearings 9-7-10 except (jt=length) 9=9-2-2, 14=9-2-2, 14=9-2-2, 13=9-2-2, 12=9-2-2, 11=9-2-2, 10=9-2-2.

(lb) - Max Horz 21=-152(LC 39)

Max Uplift All uplift 100 lb or less at joint(s) 9, 19, 11 except 21=-110(LC 43), 16=-1523(LC 39), 14=-1432(LC 42), 17=-327(LC 33), 13=-678(LC 34)

Max Grav All reactions 250 lb or less at joint(s) 21, 9, 17, 13 except 16=4059(LC 32), 16=2888(LC 1), 14=4198(LC 31), 14=3072(LC 1), 18=430(LC 1), 19=722(LC 1), 20=346(LC 33), 12=432(LC 1), 11=687(LC 1), 10=337(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-362/366, 2-3=-1812/1834, 3-4=-1059/503, 4-5=-1121/585, 5-7=-1765/1785, 7-8=-360/361
BOT CHORD	20-21=-573/575, 19-20=-1052/1054, 18-19=-1618/1570, 17-18=-2083/2034, 16-17=-2490/2454, 15-16=-2647/2557, 14-15=-2429/2385, 13-14=-2269/2286, 12-13=-1987/1974, 11-12=-1523/1509, 10-11=-920/916, 9-10=-442/437
WEBS	3-15=-2906/3800, 5-15=-2898/3778, 3-16=-2735/2120, 5-14=-2710/2140, 2-19=-527/344, 7-11=-485/326

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 19, 11 except (jt=lb) 21=110, 16=1523, 14=1432, 17=327, 13=678.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-5-14, 14-10-10 to 23-11-0 for 258.3 plf.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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NOTES-

11) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-7 from the left end to 23-2-7 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 9-21=-20
   Concentrated Loads (lb)
   Vert: 16=-267(F) 14=-267(F) 27=-267(F) 28=-267(F) 29=-267(F) 30=-267(F) 31=-1824(F=-267, B=-1557) 32=-1481(F=-267, B=-1215) 33=-267(F) 34=-267(F) 35=-267(F) 36=-271(F)

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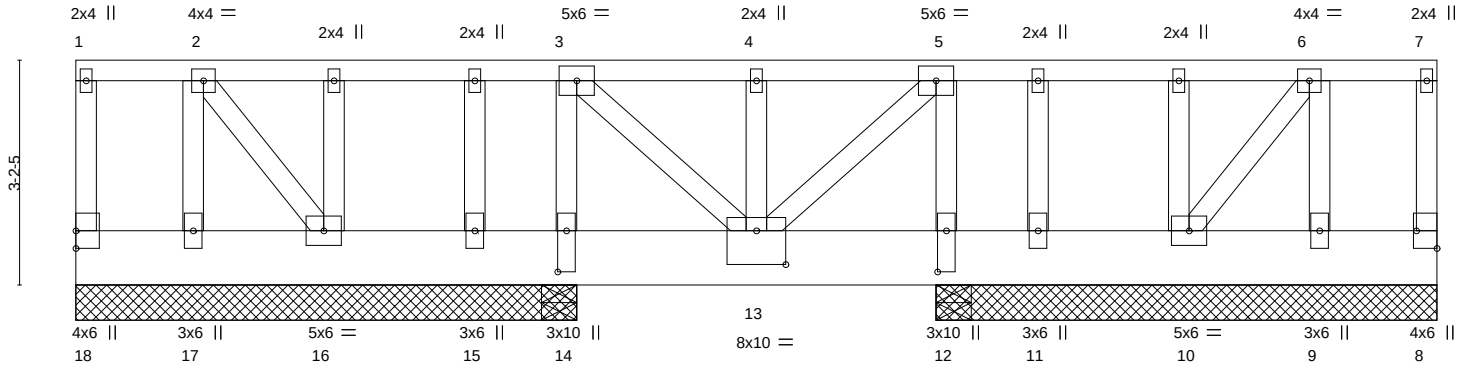
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T16	GABLE	1	1	I51408910
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:46 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-DL27?Z6Y5_9f4HIm4a2_QPQ75OOAd?SvzeQDXMzQTMh

6-11-10 | 9-8-0 | 12-4-6 | 19-4-0
6-11-10 | 2-8-6 | 2-8-6 | 6-11-10

Scale = 1:32.7



6-11-10 | 7-1-6 | 9-8-0 | 12-2-10 | 12-4-6 | 19-4-0
6-11-10 | 0-1-12 | 2-6-10 | 2-6-10 | 0-1-12 | 6-11-10

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-7-0,0-1-8], [13:0-5-0,0-5-12], [14:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 157 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-1-6 except (jt=length) 14=0-6-0, 14=0-6-0, 12=0-6-0, 12=0-6-0.
(lb) - Max Horz 18=-79(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 15=-1342(LC 63), 11=-1341(LC 63), 14=-1717(LC 39), 12=-1717(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=564(LC 1), 10=564(LC 1), 14=5588(LC 64), 14=4191(LC 1), 12=5609(LC 63), 12=4191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-363/367, 2-3=-1419/1426, 3-4=-1011/632, 4-5=-1011/632, 5-6=-1471/1472, 6-7=-356/356
BOT CHORD	17-18=-516/490, 16-17=-1030/1033, 15-16=-1633/1570, 14-15=-1994/1959, 13-14=-1994/1959, 12-13=-1956/1961, 11-12=-1956/1961, 10-11=-1595/1599, 9-10=-959/959, 8-9=-441/439
WEBS	3-14=-2610/2227, 3-13=-2881/3416, 5-13=-2954/3489, 5-12=-2661/2278, 2-16=-369/251, 6-10=-369/249

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 15=1342, 11=1341, 14=1717, 12=1717.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 6-11-10, 12-4-6 to 19-4-0 for 277.4 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-970(F=-950), 8-12=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T17	GABLE	1	1	I51408911
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:49 2022 Page 1
ID:5YDxkPdIe5J9IYHij4yaj?z6jAz-dwjGda8ROvXDxk0Lmich212fEbRvqOQLfcet8hzQTMe

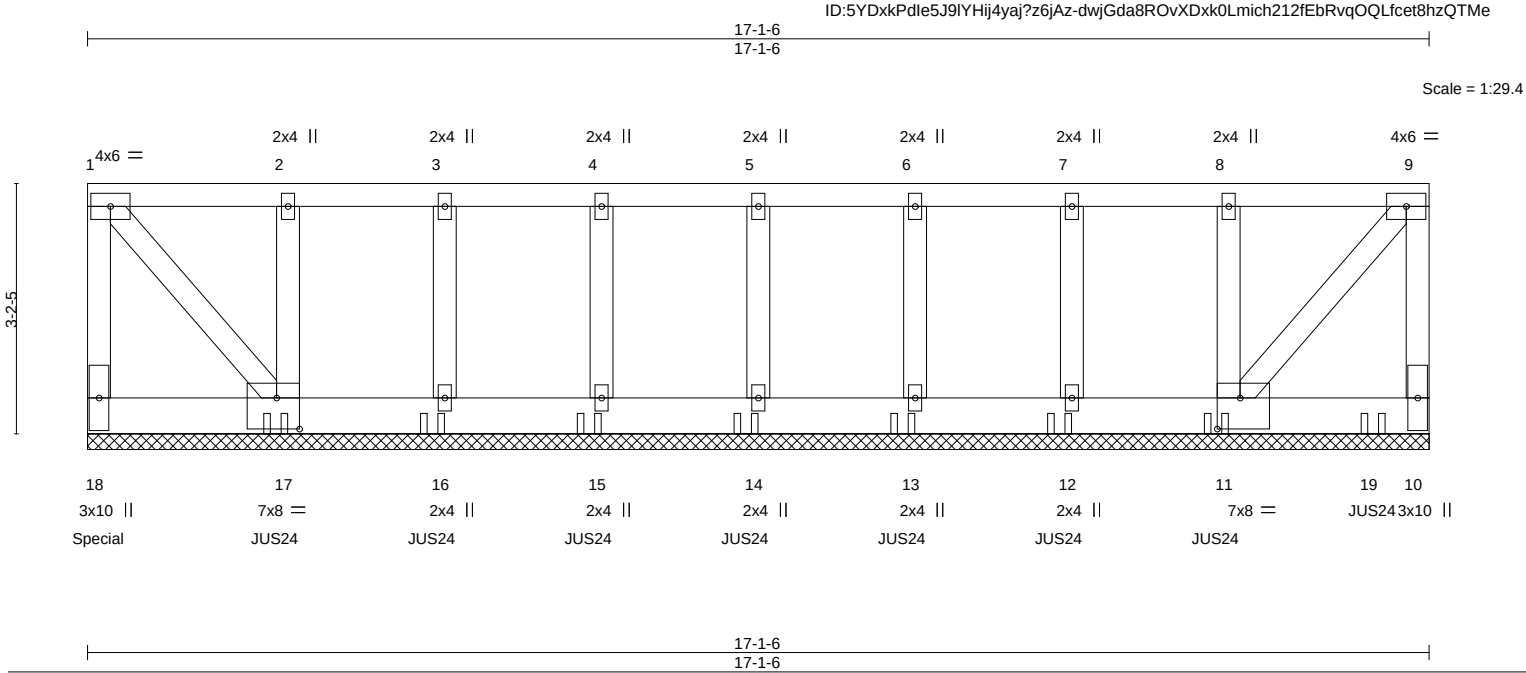

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 108 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-1-6.
(lb) - Max Horz 18=-60(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-1903(LC 39), 10=-1917(LC 42), 17=-1897(LC 42), 11=-1858(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=2166(LC 60), 10=2115(LC 59), 14=491(LC 1), 15=500(LC 1), 16=480(LC 1), 17=2240(LC 59), 13=510(LC 1), 12=440(LC 1), 11=2303(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1997/1990, 1-2=-1643/1644, 2-3=-1209/1210, 3-4=-809/810, 4-5=-409/410, 5-6=-409/410, 6-7=-809/810, 7-8=-1209/1210, 8-9=-1643/1644, 9-10=-2017/2018
BOT CHORD	17-18=-560/563, 16-17=-1239/1239, 15-16=-839/839, 14-15=-439/439, 13-14=-439/439, 12-13=-839/839, 11-12=-1239/1239, 10-11=-506/506
WEBS	1-17=-2653/2654, 9-11=-2611/2610

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1903 lb uplift at joint 18, 1917 lb uplift at joint 10, 1897 lb uplift at joint 17 and 1858 lb uplift at joint 11.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-1-6 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-4-13 from the left end to 16-4-13 to connect truss(es) to front face of bottom chord.

Continued on page 2

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Chesterfield, MO 63017

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 323 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 18=-323(F) 14=-315(F) 15=-315(F) 16=-315(F) 17=-315(F) 13=-315(F) 12=-315(F) 11=-315(F) 19=-319(F)

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T18	GABLE	1	1	I51408912
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:52 2022 Page 1
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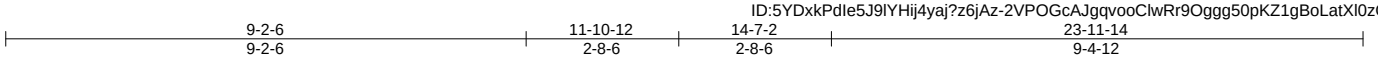

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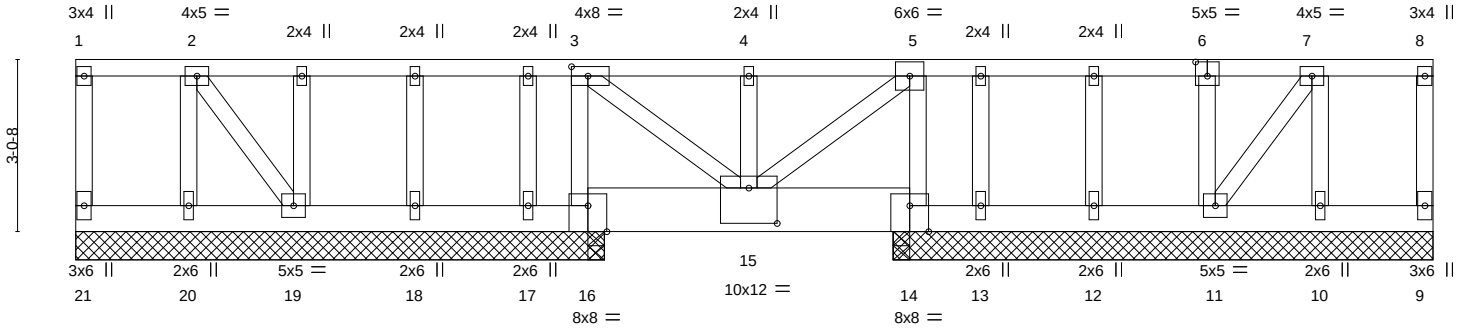

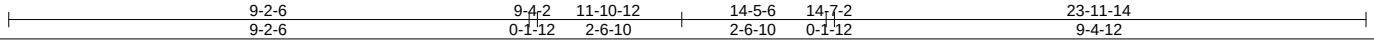

Plate Offsets (X,Y)-- [3:0-3-8,0-2-0], [6:0-2-8,0-3-0], [14:0-4-0,Edge], [15:0-6-0,0-7-8], [16:0-4-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.01	15	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.02	15	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 163 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1 *Except* 14-16: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-8 oc bracing.

REACTIONS. All bearings 9-4-2 except (jt=length) 9=9-6-8, 13=9-6-8, 12=9-6-8, 11=9-6-8, 10=9-6-8, 14=9-6-8, 14=9-6-8.
(lb) - Max Horz 21=-149(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 11, 10 except 21=-124(LC 59), 9=-127(LC 60), 16=-1779(LC 39), 17=-972(LC 63), 13=-762(LC 64), 14=-1819(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 21, 9, 17, 18, 20, 13, 12, 10 except 16=5284(LC 64), 16=3863(LC 1), 19=434(LC 1), 11=449(LC 1), 14=5119(LC 63), 14=3676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-362/368, 2-3=-1752/1775, 3-4=-1312/709, 4-5=-1278/675, 5-7=-1845/1869, 7-8=-360/366
BOT CHORD	20-21=-575/575, 19-20=-1054/1054, 18-19=-1622/1572, 17-18=-2138/2081, 16-17=-2380/2370, 15-16=-2592/2502, 14-15=-2595/2516, 13-14=-2356/2362, 12-13=-2060/2042, 11-12=-1544/1471, 10-11=-925/915, 9-10=-447/437
WEBS	3-15=-3391/4236, 5-15=-3472/4318, 3-16=-2997/2416, 5-14=-3055/2472, 2-19=-503/332, 7-11=-521/344

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 11, 10 except (jt=lb) 21=124, 9=127, 16=1779, 17=972, 13=762, 14=1819.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-2-6, 14-7-2 to 23-11-14 for 258.0 plf.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T18	GABLE	1	1	I51408912
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-70, 16-21=-20, 14-16=-920(F=-900), 9-14=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T19	GABLE	2	1	I51408913
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:54 2022 Page 1
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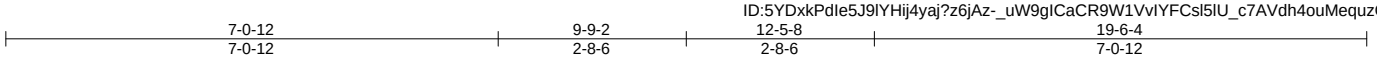

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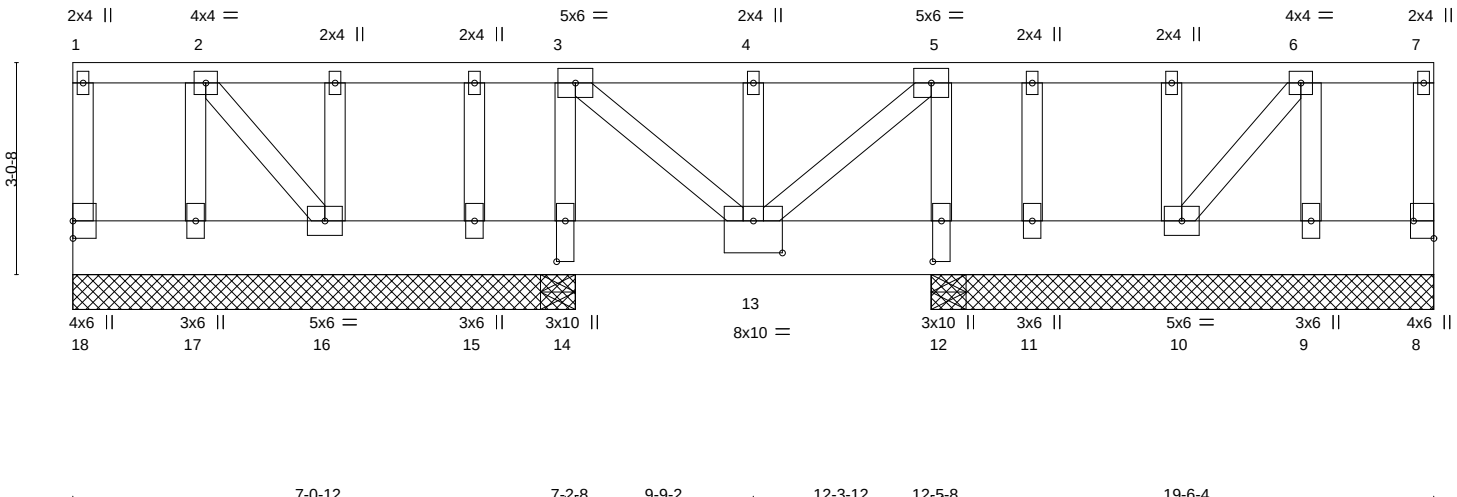

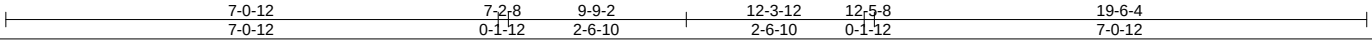

Plate Offsets (X,Y)-- [8:Edge,0-3-8], [12:0-7-0,0-1-8], [13:0-5-0,0-5-8], [14:0-7-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	-0.00	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 155 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-2-8 except (jt=length) 14=0-6-0, 14=0-6-0, 12=0-6-0, 12=0-6-0.
(lb) - Max Horz 18=-76(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 18, 8, 16, 17, 10, 9 except 15=-1282(LC 64), 11=-1282(LC 64), 14=-1634(LC 39), 12=-1634(LC 42)
Max Grav All reactions 250 lb or less at joint(s) 18, 8, 17, 9 except 16=552(LC 1), 10=552(LC 1), 14=5331(LC 64), 14=4004(LC 1), 12=5350(LC 63), 12=4004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-380/383, 2-3=-1446/1450, 3-4=-1003/624, 4-5=-1003/624, 5-6=-1494/1497, 6-7=-373/373
BOT CHORD	17-18=-536/511, 16-17=-1049/1051, 15-16=-1653/1601, 14-15=-2013/1977, 13-14=-2013/1977, 12-13=-1983/1987, 11-12=-1983/1987, 10-11=-1623/1627, 9-10=-980/980, 8-9=-464/462
WEBS	3-14=-2488/2128, 3-13=-2827/3344, 5-13=-2893/3410, 5-12=-2533/2173, 2-16=-374/250, 6-10=-374/248

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 8, 16, 17, 10, 9 except (jt=lb) 15=1282, 11=1282, 14=1634, 12=1634.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-0-12, 12-5-8 to 19-6-4 for 276.4 plf.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T19	GABLE	2	1	I51408913
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 14-18=-20, 12-14=-920(F=-900), 8-12=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T20	GABLE	2	1	I51408914
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:43:58 2022 Page 1
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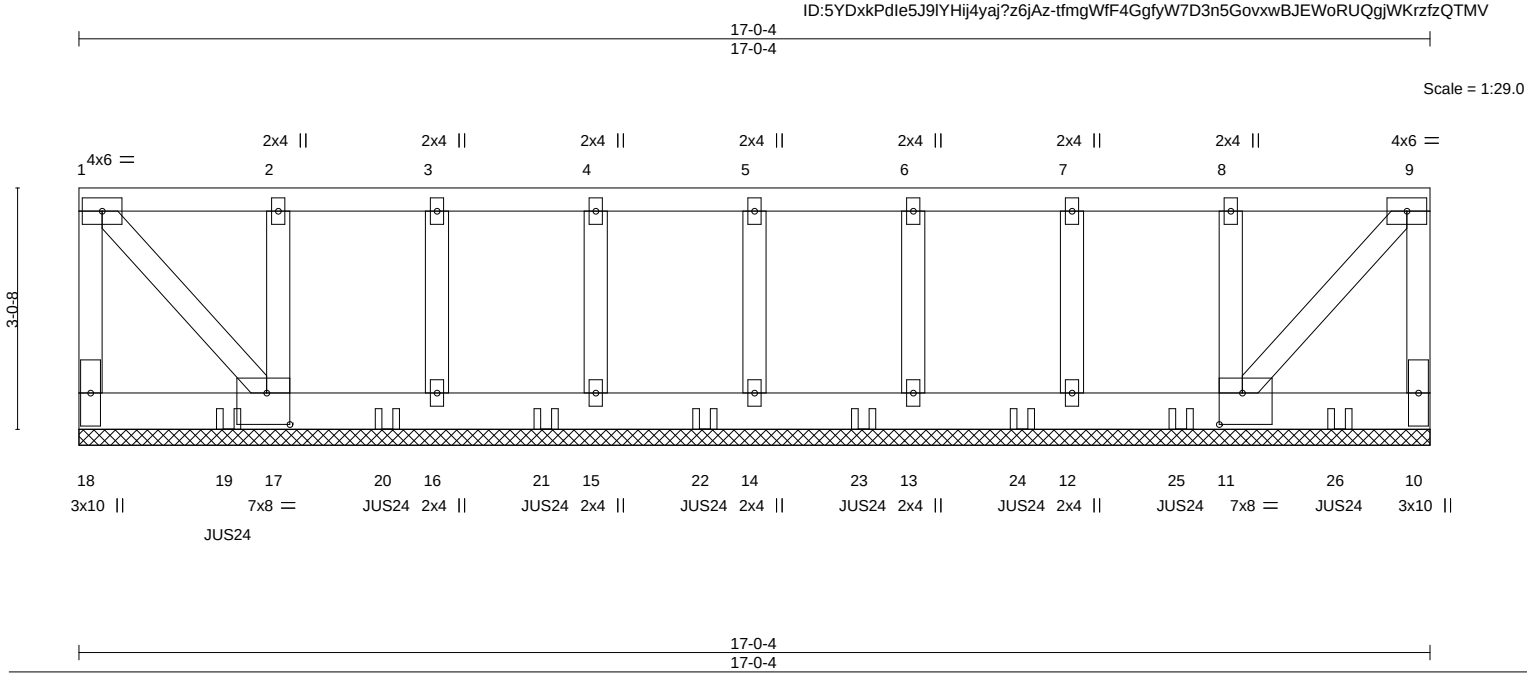

Plate Offsets (X,Y)-- [11:0-3-8,0-4-12], [17:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 105 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 17-0-4.
(lb) - Max Horz 18=-57(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 13, 12 except 18=-1899(LC 39), 10=-1893(LC 42), 17=-1903(LC 42), 11=-1895(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 18=1943(LC 60), 10=1981(LC 59), 14=442(LC 1), 15=456(LC 1), 16=414(LC 1), 17=2163(LC 59), 13=458(LC 1), 12=405(LC 1), 11=2176(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-18=-1915/1908, 1-2=-1634/1635, 2-3=-1208/1209, 3-4=-808/809, 4-5=-408/409, 5-6=-408/409, 6-7=-808/809, 7-8=-1208/1209, 8-9=-1634/1635, 9-10=-1934/1936
BOT CHORD	17-18=-546/549, 16-17=-1237/1236, 15-16=-837/836, 14-15=-437/436, 13-14=-437/436, 12-13=-837/836, 11-12=-1237/1236, 10-11=-496/496
WEBS	1-17=-2582/2584, 9-11=-2543/2542

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 13, 12 except (jt=lb) 18=1899, 10=1893, 17=1903, 11=1895.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 17-0-4 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-10 from the left end to 15-10-10 to connect truss(es) to back face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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NOTES-

14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-70, 10-18=-20
   Concentrated Loads (lb)
   Vert: 19=-267(B) 20=-267(B) 21=-267(B) 22=-267(B) 23=-267(B) 24=-267(B) 25=-267(B) 26=-267(B)

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T21	GABLE	1	1	I51408915
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:03 2022 Page 1
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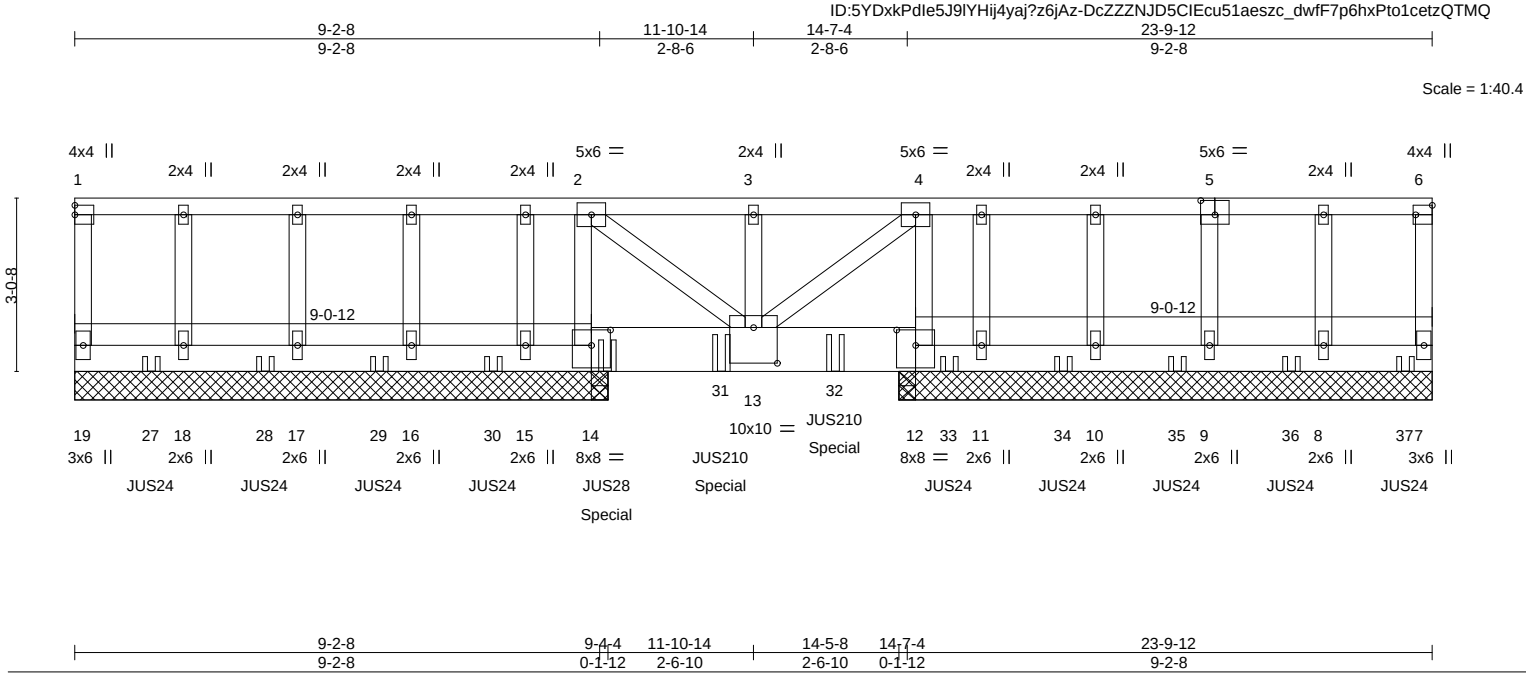

Plate Offsets (X,Y)-- [5:0-3-0,0-3-0], [6:Edge,0-3-8], [12:0-4-0,0-3-4], [13:0-5-0,0-7-8], [14:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.01	13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.02	13	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 154 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-5: 2x4 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 12-14: 2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-14 oc bracing.

REACTIONS. All bearings 9-4-4.
(lb) - Max Horz 19=-149(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) 19, 7, 17, 18, 9, 8 except 14=-1374(LC 39), 12=-1527(LC 42), 15=-330(LC 31), 11=-477(LC 32)
Max Grav All reactions 250 lb or less at joint(s) 15, 11 except 19=366(LC 1), 7=507(LC 1), 14=4801(LC 32), 14=3826(LC 1), 12=4312(LC 31), 12=3260(LC 1), 16=389(LC 1), 17=285(LC 1), 18=330(LC 33), 10=410(LC 1), 9=286(LC 1), 8=310(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-273/141, 1-2=-1796/1795, 2-3=-1181/462, 3-4=-1181/462, 4-6=-1766/1751, 6-7=-272/140
BOT CHORD	18-19=-625/632, 17-18=-1142/1150, 16-17=-1659/1667, 15-16=-2177/2184, 14-15=-2474/2496, 13-14=-2590/2579, 12-13=-2453/2438, 11-12=-2336/2359, 10-11=-2040/2038, 9-10=-1523/1530, 8-9=-1005/978, 7-8=-488/496
WEBS	2-13=-3066/3705, 4-13=-3007/3708, 2-14=-2685/2129, 4-12=-2691/2174

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 7, 17, 18, 9, 8 except (jt=lb) 14=1374, 12=1527, 15=330, 11=477.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-2-8, 14-7-4 to 23-9-12 for 258.6 plf.

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Continued on page 2

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NOTES-

11) Use USP JUS28 (With 6-10d nails into Girder & 4-10d nails into Truss) or equivalent at 9-4-2 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
12) Use USP JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 11-4-2 from the left end to 13-4-2 to connect truss(es) to front face of bottom chord.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 8-0-0 oc max. starting at 1-4-2 from the left end to 23-4-2 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 7-19=-20
   Concentrated Loads (lb)
   Vert: 14=-1439(F=-1173, B=-267) 27=-267(B) 28=-267(B) 29=-267(B) 30=-267(B) 31=-1626(F=-1359, B=-267) 32=-1626(F=-1359, B=-267) 33=-267(B) 34=-267(B) 35=-267(B) 36=-267(B) 37=-273(B)

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T22	GABLE	1	1	I51408916
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:06 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-eBFhCOL5N7gpTLqcFnPgEcFcGSFOJ99sZlGGFCzQTMN

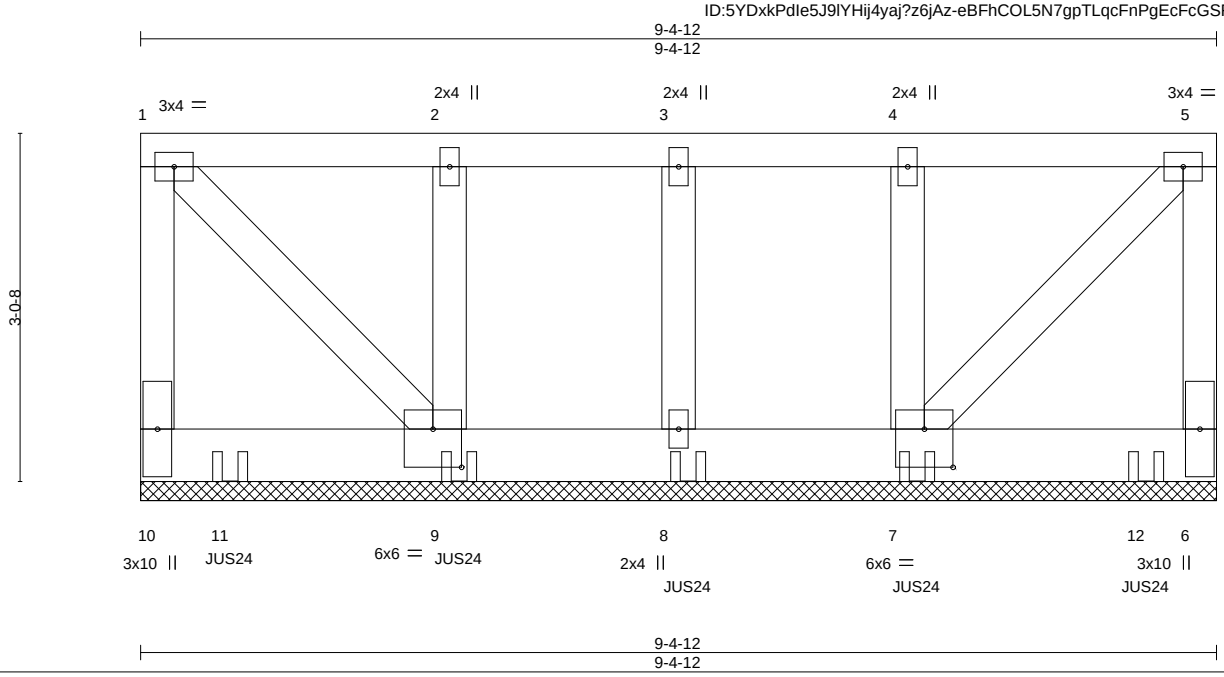

Plate Offsets (X,Y)-- [7:0-3-0,0-4-0], [9:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 63 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-4-12.
(lb) - Max Horz 10=-57(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 10=-967(LC 39), 6=-963(LC 42), 9=-972(LC 42), 7=-967(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 10=1084(LC 60), 6=1096(LC 59), 8=342(LC 1), 9=1279(LC 31), 7=1264(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-980/972, 1-2=-867/867, 2-3=-408/408, 3-4=-408/408, 4-5=-867/867, 5-6=-1009/1021
BOT CHORD	9-10=-592/595, 8-9=-440/443, 7-8=-440/443, 6-7=-533/536
WEBS	1-9=-1377/1381, 5-7=-1342/1342

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=967, 6=963, 9=972, 7=967.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-12 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-6 from the left end to 8-9-6 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408916
PRYOR-R2C	T22	GABLE	1	1	Job Reference (optional)

NOTES-

15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 8=-267(B) 9=-267(B) 7=-267(B) 11=-270(B) 12=-272(B)

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T26	Roof Special	16	1	I51408917
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:07 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-6Op3PkMj8Rog5VPopUxwnqolwsPW2Vd?oP?qnezQTMM

6-4-2	12-8-4	19-0-6	25-4-11	31-5-15	35-11-7	37-10-7
6-4-2	6-4-2	6-4-2	6-4-5	6-1-4	4-5-8	1-11-0

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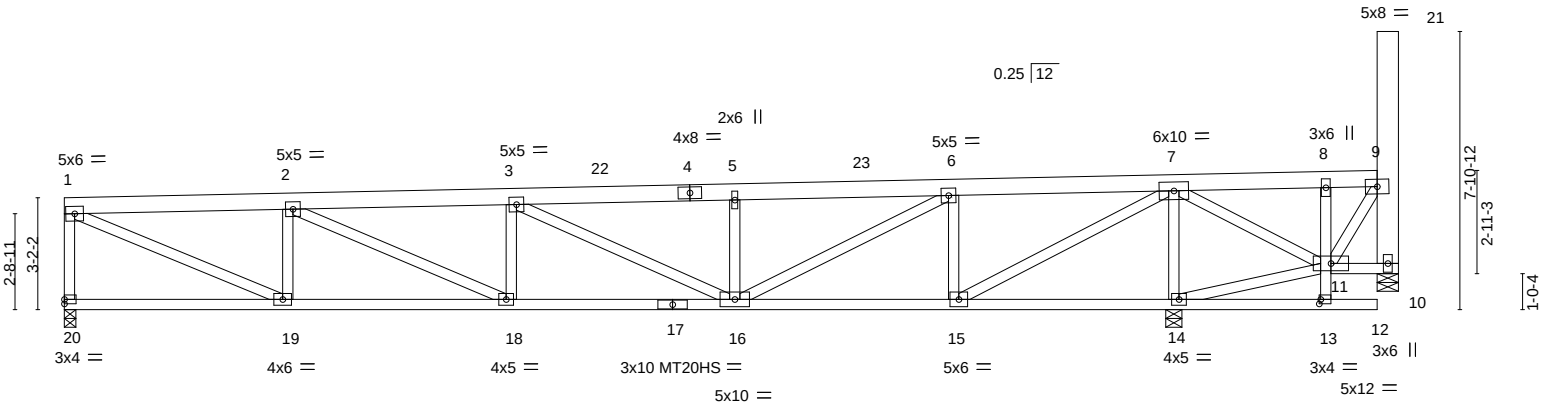

6-4-2	12-8-4	19-0-6	25-4-11	31-5-15	35-11-7	37-10-7
6-4-2	6-4-2	6-4-2	6-4-5	6-1-4	4-5-8	1-11-0

Plate Offsets (X,Y)-- [13:0-0-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.17	16-18	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.36	16-18	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	14	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-21: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-0-8 oc bracing. Except:
10-0-0 oc bracing: 11-13

REACTIONS. (size) 20=0-3-15, 10=0-7-4, 14=0-5-8
Max Horz 20=217(LC 12)
Max Uplift 10=-761(LC 2)
Max Grav 20=1348(LC 21), 10=40(LC 11), 14=3380(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-1288/219, 1-2=-2295/317, 2-3=-3019/448, 3-5=-2447/412, 5-6=-2447/417, 6-7=-717/236, 7-8=-432/625, 8-9=-434/626, 9-10=-173/743
BOT CHORD 19-20=-305/196, 18-19=-528/2290, 16-18=-559/3012, 15-16=-166/713, 14-15=-1931/270, 8-11=-323/105
WEBS 1-19=-361/2465, 2-19=-888/232, 2-18=-139/796, 3-16=-635/140, 5-16=-520/156, 6-16=-303/1961, 6-15=-1349/289, 7-15=-435/3021, 7-14=-2799/452, 11-14=-1882/271, 7-11=-271/1573, 9-11=-962/173

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-13, Corner(3) 22-6-13 to 37-6-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=761.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-9=-146
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-60, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-60-to-9=-117
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-68, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-68-to-9=-125
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-39, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-39-to-9=-96
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-81, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-81-to-9=-157
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-42, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-42-to-9=-118
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=13, 1-9=-9, 9-10=3, 9-21=27
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-9=-108
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=-3, 1-9=-3, 9-10=-13, 9-21=-27
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-9=-114
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-51, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=10, 1-9=-9, 9-10=2, 9-21=18
   Trapezoidal Loads (plf)
   Vert: 7=-51-to-9=-108
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-7=-57, 13-20=-20, 12-13=-20, 10-11=-20
   Horz: 1-20=-2, 1-9=-3, 9-10=-10, 9-21=18
   Trapezoidal Loads (plf)
   Vert: 7=-57-to-9=-114
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-7=-70, 13-20=-20, 12-13=-20, 10-11=-20
   Trapezoidal Loads (plf)
   Vert: 7=-70-to-9=-146

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Chesterfield, MO 63017

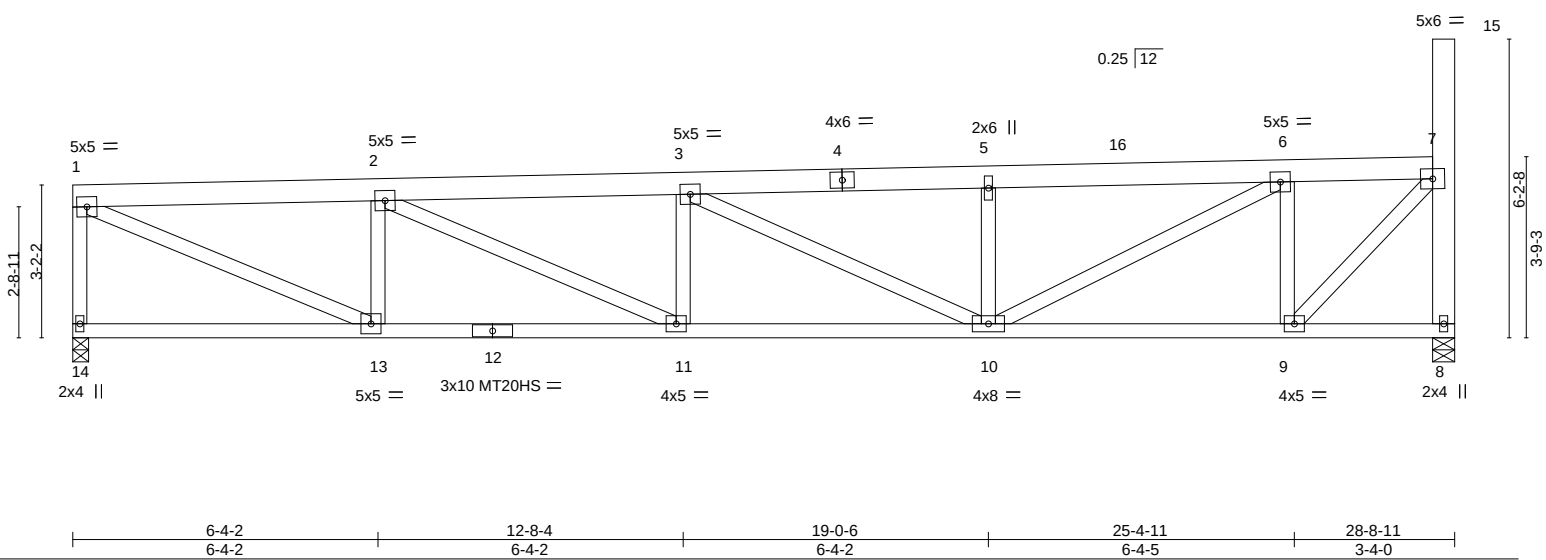
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T29	Roof Special	1	1	I51408918
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:08 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-aaNRd4NMvkwXjfz_NCS9J1KyXGjOnzI803lNJ4zQTML

6-4-2	12-8-4	19-0-6	25-4-11	28-8-11
6-4-2	6-4-2	6-4-2	6-4-5	3-4-0

Scale: 1/4"=1'



6-4-2	12-8-4	19-0-6	25-4-11	28-8-11
6-4-2	6-4-2	6-4-2	6-4-5	3-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.16	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.33	10-11	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 188 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-13 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=167(LC 12)
Max Grav 14=1425(LC 21), 8=1653(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1365/314, 1-2=-2466/485, 2-3=-3371/692, 3-5=-2993/655, 5-6=-2993/661, 6-7=-1433/405, 7-8=-1626/309
BOT CHORD 13-14=-260/170, 11-13=-635/2460, 10-11=-727/3365, 9-10=-227/1428
WEBS 1-13=-544/2652, 2-13=-965/308, 2-11=-222/996, 3-11=-294/167, 3-10=-424/156, 5-10=-523/203, 6-10=-407/1769, 6-9=-1359/315, 7-9=-349/2017

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-67, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-79, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-79-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

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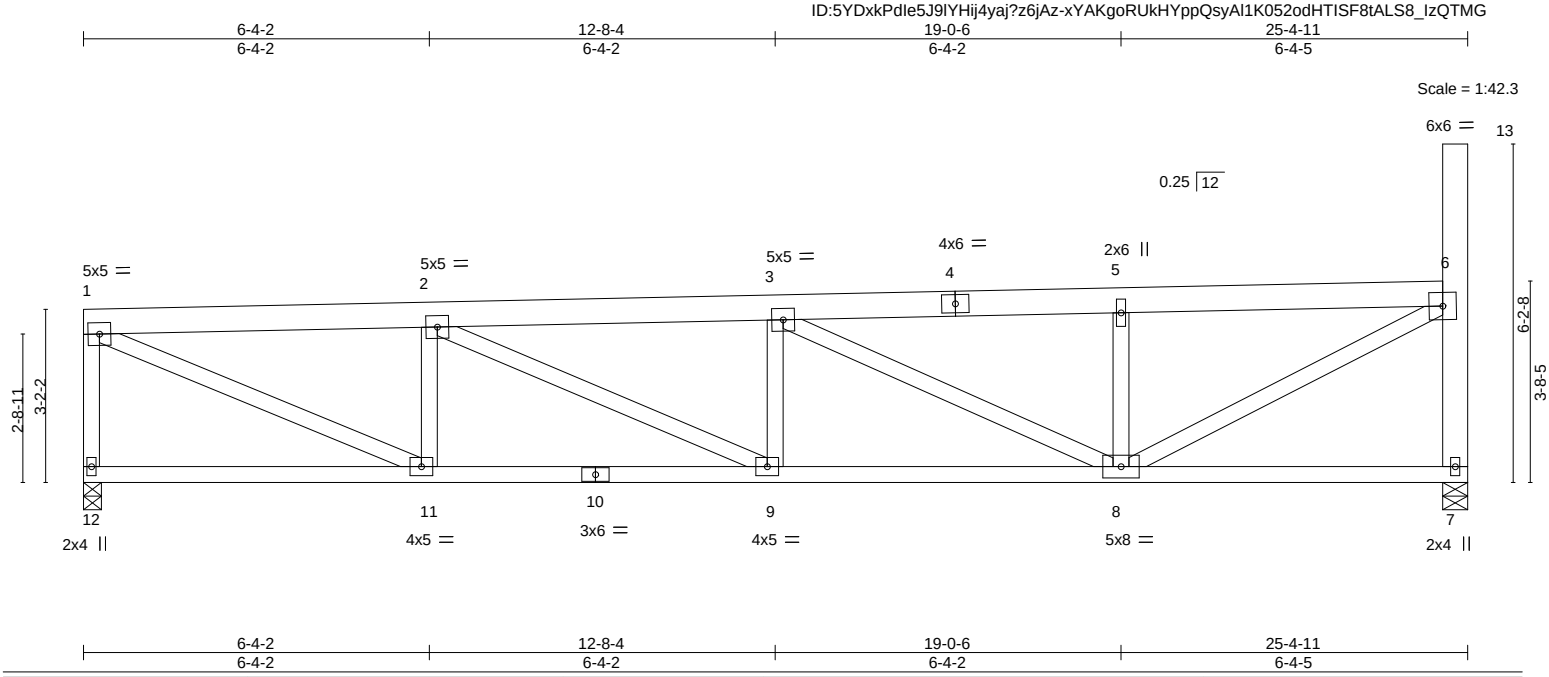
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T31	Roof Special	7	1	I51408919
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:13 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-xYAKgoRUkHYppQsyAl1K052odHTISF8tALS8_IzQTMG



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.11	9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.24	9-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 164 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
7-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-2 oc bracing.

REACTIONS. (size) 12=0-3-15, 7=0-5-8
Max Horz 12=168(LC 12)
Max Grav 12=1250(LC 21), 7=1455(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1190/319, 1-2=-2103/482, 2-3=-2671/650, 3-5=-2017/547, 5-6=-2019/553, 6-7=-1395/338
BOT CHORD 11-12=-273/176, 9-11=-623/2098, 8-9=-656/2665
WEBS 1-11=-541/2257, 2-11=-802/307, 2-9=-178/625, 3-8=-727/258, 5-8=-604/227, 6-8=-505/2195

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 7-12=-20

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 5=-60-to-6=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-66, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-66-to-6=-126

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-39, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-39-to-6=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-78, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-78-to-6=-158

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-42, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-42-to-6=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-51, 7-12=-20
Horz: 1-12=13, 1-6=-9, 6-7=3, 6-13=27
Trapezoidal Loads (plf)
Vert: 5=-51-to-6=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-57, 7-12=-20
Horz: 1-12=-3, 1-6=-3, 6-7=-13, 6-13=-27
Trapezoidal Loads (plf)
Vert: 5=-57-to-6=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-51, 7-12=-20
Horz: 1-12=10, 1-6=-9, 6-7=2, 6-13=18
Trapezoidal Loads (plf)
Vert: 5=-51-to-6=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-57, 7-12=-20
Horz: 1-12=-2, 1-6=-3, 6-7=-10, 6-13=18
Trapezoidal Loads (plf)
Vert: 5=-57-to-6=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-70, 7-12=-20
Trapezoidal Loads (plf)
Vert: 5=-70-to-6=-150

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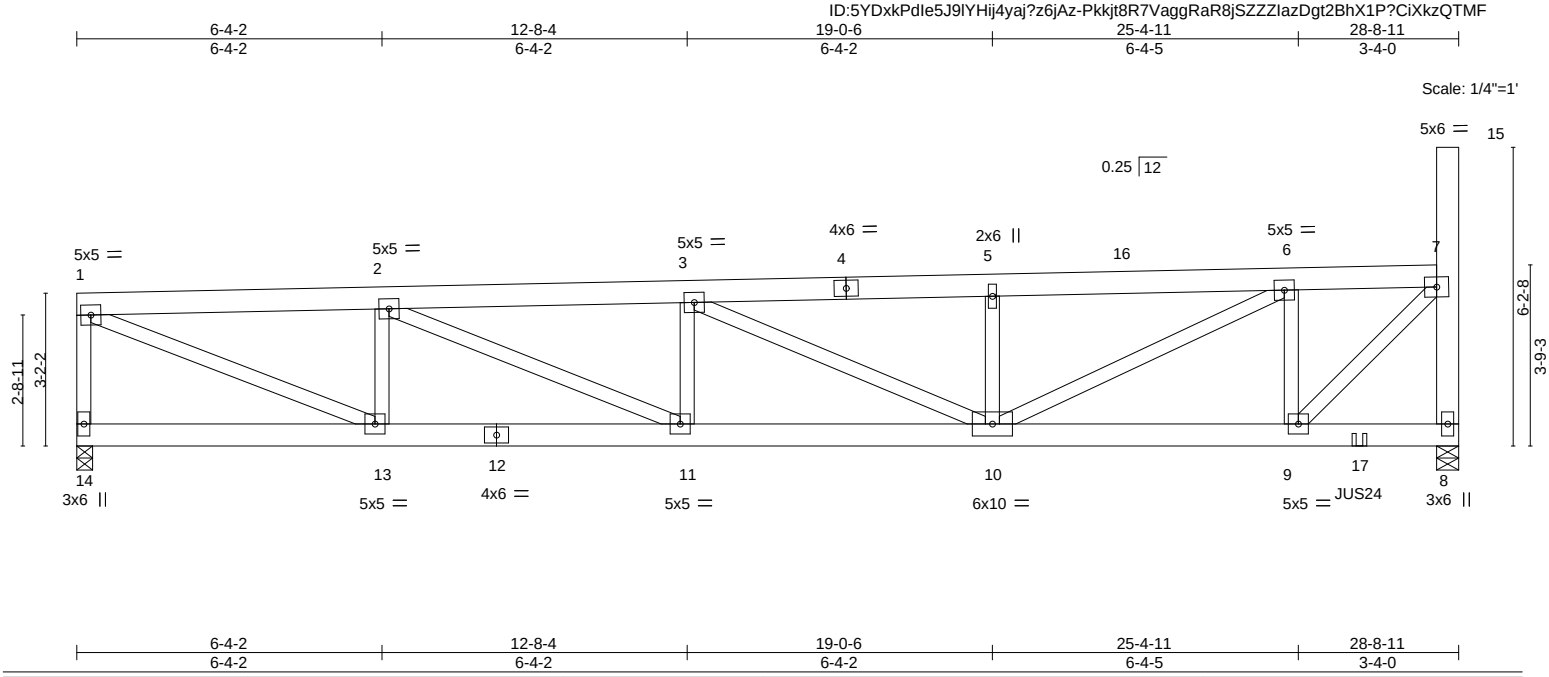
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T31G	Roof Special Girder	1	1	I51408920
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:14 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-Pkkjt8R7VaggRaR8jSZZZIazDgt2BhX1P?CiXkzQTMF



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.29	10-11	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 210 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-9 oc bracing.

REACTIONS. (size) 14=0-3-15, 8=0-5-8
Max Horz 14=166(LC 12)
Max Grav 14=1435(LC 21), 8=1790(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1364/314, 1-2=-2543/504, 2-3=-3497/728, 3-5=-3107/691, 5-6=-3108/697, 6-7=-1552/450, 7-8=-1689/346
BOT CHORD 13-14=-262/161, 11-13=-652/2538, 10-11=-760/3491, 9-10=-271/1547
WEBS 1-13=-554/2715, 2-13=-976/312, 2-11=-239/1045, 3-11=-298/169, 3-10=-442/171, 5-10=-515/201, 6-10=-424/1754, 6-9=-1338/323, 7-9=-405/2130

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 26-7-15 from the left end to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)

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Continued on page 2

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LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 16=-60-to-7=-120

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-67, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 16=-67-to-7=-127

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-39, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-117(F)
Trapezoidal Loads (plf)
Vert: 16=-39-to-7=-99

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-79, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 16=-79-to-7=-159

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-42, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 16=-42-to-7=-122

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 17=57(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 17=57(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 17=57(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 17=57(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 17=-146(F)
Trapezoidal Loads (plf)
Vert: 16=-70-to-7=-150

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=13, 1-7=-9, 7-8=3, 7-15=27
Concentrated Loads (lb)
Vert: 17=-132(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-3, 1-7=-3, 7-8=-13, 7-15=-27
Concentrated Loads (lb)
Vert: 17=-132(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-51, 8-14=-20
Horz: 1-14=10, 1-7=-9, 7-8=2, 7-15=18
Concentrated Loads (lb)
Vert: 17=-132(F)
Trapezoidal Loads (plf)
Vert: 16=-51-to-7=-111

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-16=-57, 8-14=-20
Horz: 1-14=-2, 1-7=-3, 7-8=-10, 7-15=18
Concentrated Loads (lb)
Vert: 17=-132(F)
Trapezoidal Loads (plf)
Vert: 16=-57-to-7=-117

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T31S	GABLE	1	1	I51408921
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:17 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-pJPrV9U?oV3FI29jPb6GBxCUXuzRO7JT5zQM83zQTMC

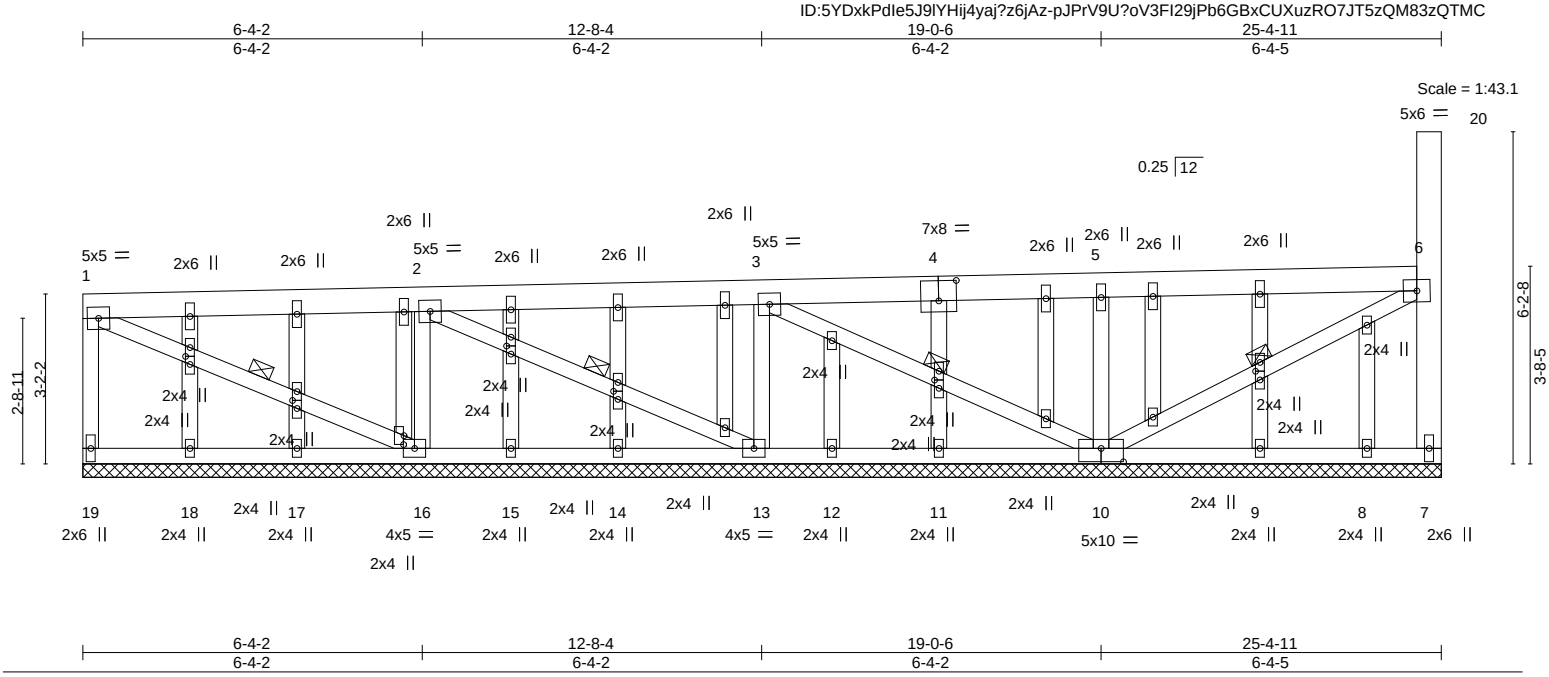

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [10:0-5-0,0-3-0], [16:0-2-0,0-0-2], [21:0-1-13,0-1-0], [23:0-1-13,0-1-0], [26:0-1-13,0-1-0], [28:0-1-13,0-1-0], [33:0-1-14,0-1-0], [39:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.02	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 207 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 7-20: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-10-7 oc bracing.
WEBS	1 Row at midpt 1-16, 2-13, 3-10, 6-10

REACTIONS. All bearings 25-4-11.
(lb) - Max Horz 19=168(LC 46)
Max Uplift All uplift 100 lb or less at joint(s) 16, 13, 8 except 19=-705(LC 44), 7=-692(LC 47), 10=-152(LC 44)
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 15, 14, 12, 11, 9, 8 except 19=780(LC 51), 7=745(LC 48), 16=572(LC 21), 13=524(LC 21), 10=634(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-748/698, 1-2=-1450/1430, 2-3=-1521/1468, 3-5=-1438/1368, 5-6=-1346/1288, 6-7=-709/777
BOT CHORD	18-19=-630/496, 17-18=-1030/896, 16-17=-1499/1364, 15-16=-349/271, 14-15=-749/671, 13-14=-1287/1208, 11-12=-637/596, 10-11=-1243/1202, 9-10=-1238/1271, 8-9=-645/677, 7-8=-245/277
WEBS	1-16=-1564/1626, 2-16=-903/806, 2-13=-1416/1446, 3-13=-832/775, 3-10=-1312/1324, 5-10=-528/231, 6-10=-1452/1429

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13, 8 except (jt=lb) 19=705, 7=692, 10=152.

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408921
PRYOR-R2C	T31S	GABLE	1	1	Job Reference (optional)

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-4-11 for 200.0 plf.

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T32	Roof Special	2	1	I51408922
					Job Reference (optional)

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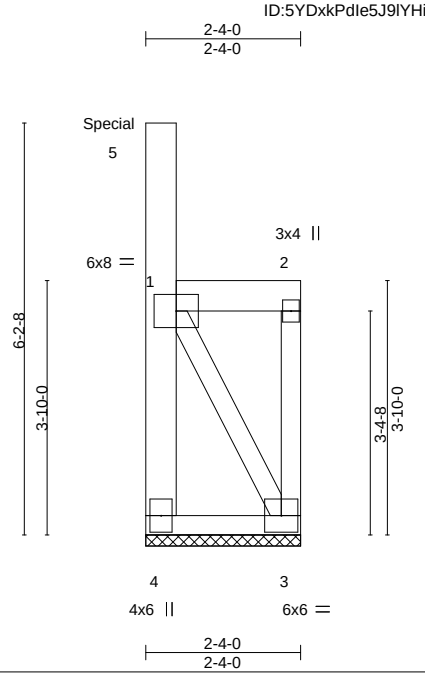

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-167(LC 11)
Max Uplift 4=-2828(LC 11), 3=-287(LC 12)
Max Grav 4=1165(LC 46), 3=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1277/3353
BOT CHORD 3-4=-269/421
WEBS 1-3=-752/481

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=2828, 3=287.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 53, 54, 55, 56 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 879 lb down and 2564 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=473(F)

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=343(F)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=331(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=331(F)

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=457(F)

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=457(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
Concentrated Loads (lb)
Vert: 1=2088(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
Concentrated Loads (lb)
Vert: 1=2088(F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
Concentrated Loads (lb)
Vert: 1=2088(F)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
Concentrated Loads (lb)
Vert: 1=2088(F)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=473(F)

53) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
Concentrated Loads (lb)
Vert: 1=-655(F)

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-655(F)

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
Concentrated Loads (lb)
Vert: 1=-655(F)

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Chesterfield, MO 63017

LOAD CASE(S) Standard

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
Concentrated Loads (lb)
Vert: 1=-655(F)

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T33	Roof Special	2	1	I51408923
					Job Reference (optional)

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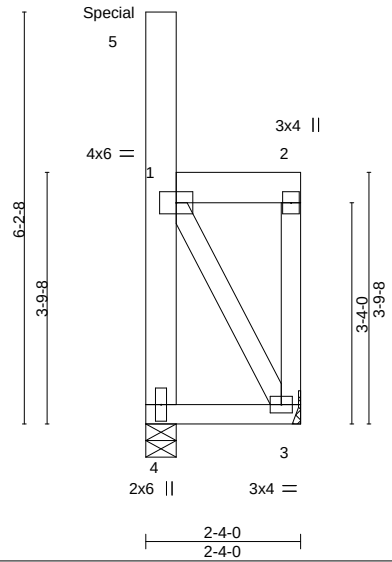

2-4-0
2-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-73(LC 11)
Max Uplift 4=-1364(LC 24), 3=-60(LC 50)
Max Grav 4=1358(LC 52), 3=176(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1428/1384

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=1364.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 38, 39, 40, 41, 42, 44, 59, 60, 61, 62 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1299 lb down and 1445 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-618(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-484(F)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-498(F)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-498(F)
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-637(F)
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-637(F)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=1445(F)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=1445(F)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=1445(F)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=1445(F)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-618(F)
35) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)
38) Reversal: Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)
39) Reversal: Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)
40) Reversal: Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)
41) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 1=-29(F)

42) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)

44) Reversal: Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-29(F)

59) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=-970(F)

60) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-970(F)

61) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=-970(F)

62) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=-970(F)

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T34	Roof Special	2	1	I51408924
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:21 2022 Page 1
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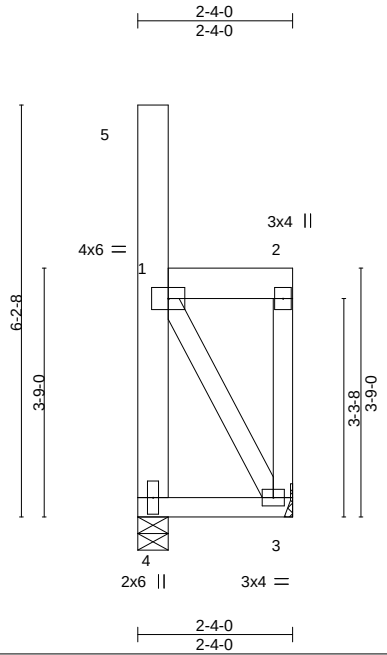

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-72(LC 11)
Max Uplift 4=-1448(LC 11), 3=-58(LC 12)
Max Grav 4=1551(LC 52), 3=175(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1619/1563

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=1448.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 35, 38, 39, 40, 41, 42, 44, 59, 60, 61, 62 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1494 lb down and 1565 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

April 15,2022

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=1216
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=1216
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=1216
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=1216
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-27
35) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1565
38) Reversal: Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1563
39) Reversal: Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1549
40) Reversal: Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1549
41) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1546

Continued on page 3

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Chesterfield, MO 63017

LOAD CASE(S) Standard

42) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1546

44) Reversal: Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=1565

59) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=-1268

60) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-1268

61) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=-1268

62) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=-1268

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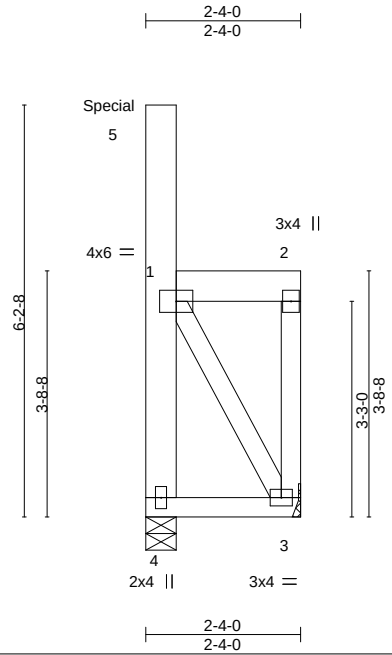
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T35	Roof Special	2	1	I51408925
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:21 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-i4fMLXXWrkZhnfTUeQBCLnNDpVOzK0130bOZHqzQTM8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-71(LC 11)
Max Uplift 4=-115(LC 11), 3=-57(LC 12)
Max Grav 4=1321(LC 42), 3=174(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1388/259

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=115.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1265 lb down and 67 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-22(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-540(F)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-545(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-545(F)

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-28(F)

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-28(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=67(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=67(F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=67(F)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=67(F)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-22(F)

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=-931(F)

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-931(F)

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=-931(F)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T35	Roof Special	2	1	I51408925 Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-931(F)

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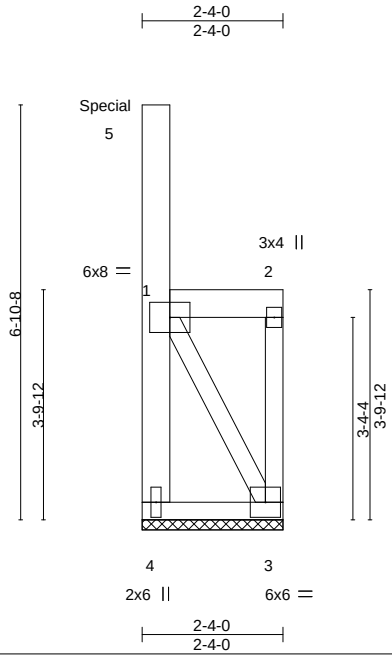
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T36	Roof Special	2	1	I51408926
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:22 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-AGDkZtX8c2hYOp2hB8iRu_wJmvj33QICEF87pGzQTM7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-191(LC 11)
Max Uplift 4=-1032(LC 11), 3=-366(LC 12)
Max Grav 4=1197(LC 60), 3=407(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-1340/1731
BOT CHORD 3-4=-313/510
WEBS 1-3=-929/568

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=1032, 3=366.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 39, 42, 43, 44, 45, 46, 48, 67, 68, 69, 70 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 832 lb down and 975 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-79(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-79(F)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-83(F)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-83(F)
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-84(F)
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-84(F)
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
Concentrated Loads (lb)
Vert: 1=674(F)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
Concentrated Loads (lb)
Vert: 1=674(F)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
Concentrated Loads (lb)
Vert: 1=674(F)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
Concentrated Loads (lb)
Vert: 1=674(F)
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-79(F)
39) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=975(F)
42) Reversal: Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=744(F)
43) Reversal: Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=731(F)
44) Reversal: Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=731(F)

Continued on page 3

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

45) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=958(F)

46) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=958(F)

48) Reversal: Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=975(F)

67) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
Concentrated Loads (lb)
Vert: 1=-603(F)

68) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-603(F)

69) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
Concentrated Loads (lb)
Vert: 1=-603(F)

70) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
Concentrated Loads (lb)
Vert: 1=-603(F)

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T37	Roof Special	2	1	I51408927
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:23 2022 Page 1
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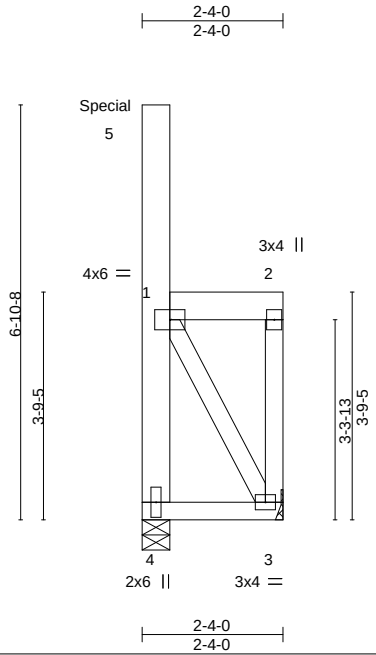

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-73(LC 11)
Max Uplift 4=-520(LC 21), 3=-59(LC 12)
Max Grav 4=901(LC 42), 3=176(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-971/539

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=520.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 844 lb down and 665 lb up at 0-2-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=665(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
Concentrated Loads (lb)
Vert: 1=493(B)

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=479(B)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=479(B)

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=647(B)

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
Concentrated Loads (lb)
Vert: 1=647(B)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=54(B)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=54(B)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=54(B)

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
Concentrated Loads (lb)
Vert: 1=54(B)

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
Concentrated Loads (lb)
Vert: 1=665(B)

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
Concentrated Loads (lb)
Vert: 1=-609(B)

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
Concentrated Loads (lb)
Vert: 1=-609(B)

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
Concentrated Loads (lb)
Vert: 1=-609(B)

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T37	Roof Special	2	1	I51408927
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-609(B)

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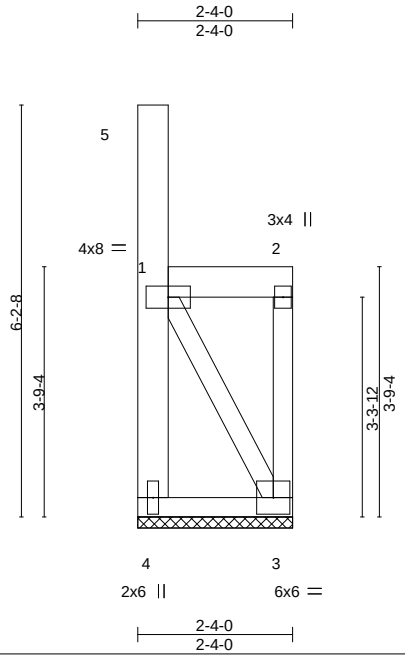
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T38	Roof Special	1	1	I51408928
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:24 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-6fKVzYZO8fxGe7C3JZkvzP?hiiOoXKXViZdDt9zQTM5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-167(LC 11)
Max Uplift 4=-288(LC 11), 3=-288(LC 12)
Max Grav 4=348(LC 25), 3=348(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-399/848
BOT CHORD 3-4=-272/428
WEBS 1-3=-756/480

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=288, 3=288.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T39	Roof Special	1	1	I51408929
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:25 2022 Page 1
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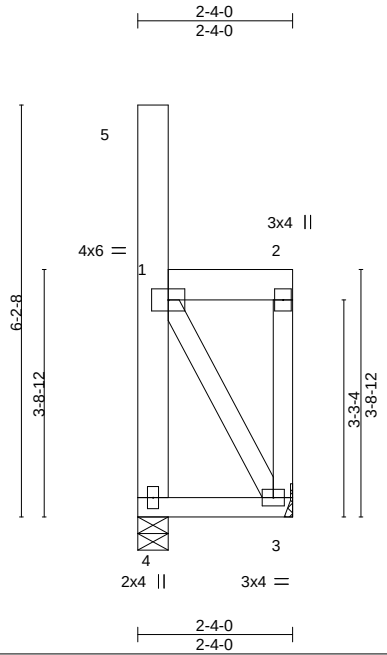

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 4-5: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-72(LC 11)
Max Uplift 4=-57(LC 11), 3=-57(LC 12)
Max Grav 4=175(LC 25), 3=175(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-2=-90, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

Continued on page 2

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LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T42	Roof Special	6	1	I51408930
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:29 2022 Page 1
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5-4-2	11-8-4	18-0-6	24-4-8	31-5-15	35-11-7	37-10-7
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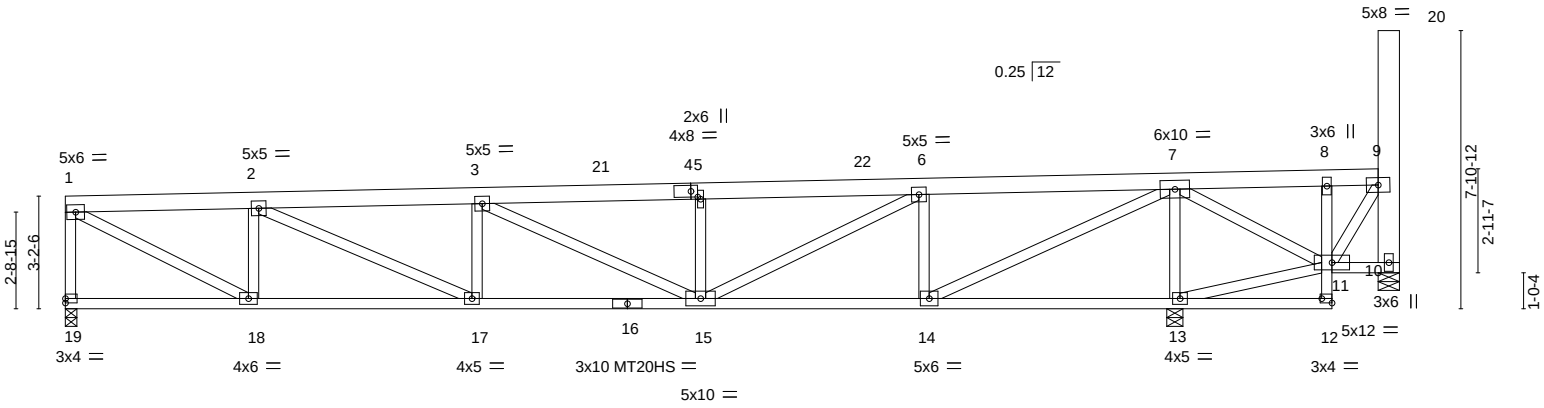

5-4-2	11-8-4	18-0-6	24-4-8	31-5-15	35-11-7	37-10-7
5-4-2	6-4-2	6-4-2	6-4-2	7-1-7	4-5-8	1-11-0

Plate Offsets (X,Y)-- [4:0-2-4,0-2-0], [12:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.17	15-17	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.36	15-17	>999	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 259 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-20: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-2-0 oc bracing.

REACTIONS. (size) 19=0-3-15, 10=0-7-4, 13=0-5-8
Max Horz 19=217(LC 12)
Max Uplift 10=-825(LC 21)
Max Grav 19=1359(LC 21), 10=26(LC 11), 13=3233(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-19=-1310/214, 1-2=-2035/277, 2-3=-3017/442, 3-5=-2660/434, 5-6=-2660/439, 6-7=-1106/282, 7-8=-418/623, 8-9=-420/619, 9-10=-151/805
BOT CHORD	18-19=-304/195, 17-18=-504/2031, 15-17=-567/3011, 14-15=-220/1101, 13-14=-1808/253
WEBS	1-18=-331/2278, 2-18=-969/234, 2-17=-176/1080, 3-17=-327/151, 3-15=-397/112, 5-15=-515/154, 6-15=-279/1754, 6-14=-1295/290, 7-14=-467/3237, 7-13=-2665/461, 11-13=-1785/253, 7-11=-264/1364, 9-11=-1057/153

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 22-6-13, Corner(3) 22-6-13 to 37-6-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 825 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

April 15,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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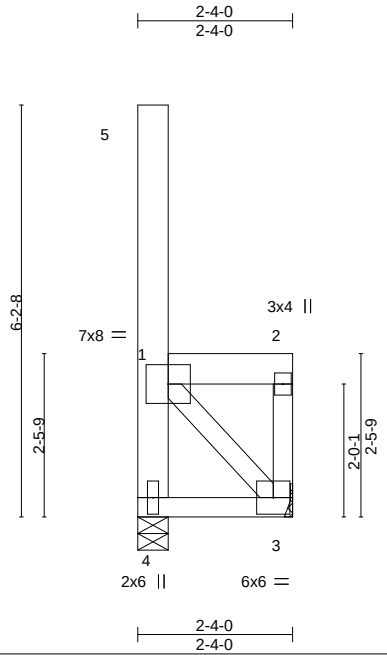
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T43	Roof Special	2	1	I51408931
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:30 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-xpimEce9kVhPM2fDfprJCgFdK7QXx3xO4U4Y5pzQTM?



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 11)
Max Uplift 4=-314(LC 11), 3=-314(LC 12)
Max Grav 4=367(LC 25), 3=367(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-402/942
BOT CHORD 3-4=-358/631
WEBS 1-3=-877/494

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 4 and 314 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

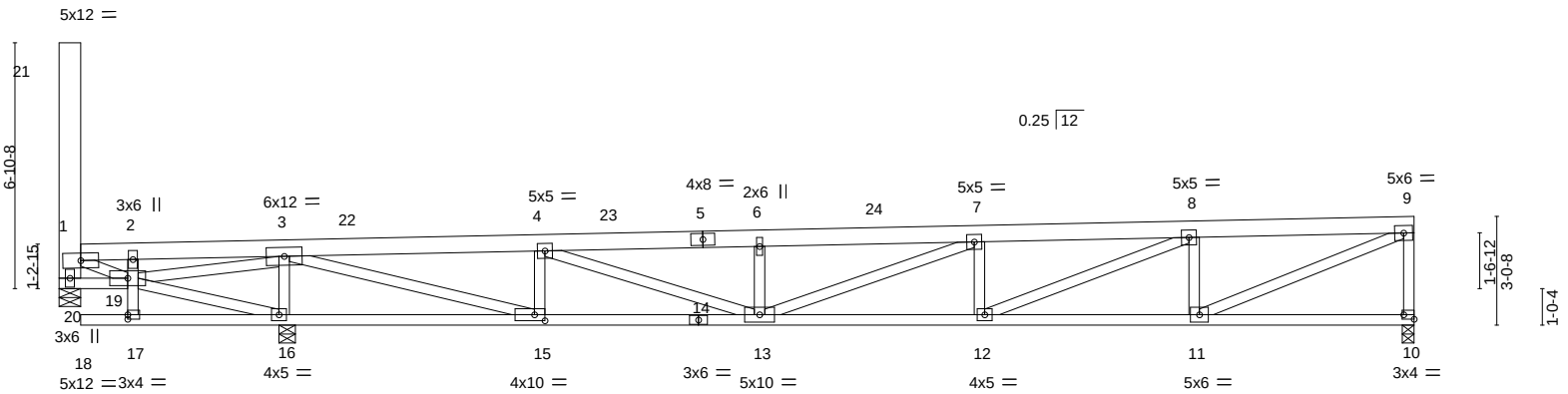
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T44	Monopitch	10	1	I51408932
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:31 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-P?G8RyenVoqGzBEPDXMYlunnXXcjgLeXJ8p5dFzQTM_

1-11-0	6-3-8	13-5-3	19-6-15	25-8-11	31-8-11	37-10-7
1-11-0	4-4-8	7-1-11	6-1-12	6-1-12	6-0-0	6-1-12

Scale: 3/16"=1'



1-11-0	6-3-8	6-4-8	13-5-3	19-6-15	25-8-11	31-8-11	37-10-7
1-11-0	4-4-8	0-1-0	7-0-11	6-1-12	6-1-12	6-0-0	6-1-12

Plate Offsets (X,Y)-- [10:Edge,0-1-8], [15:0-3-8,0-2-0], [17:0-0-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.29	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.59	12-13	>638	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 247 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 10-14: 2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 20-21: 2x8 SP 2400F 2.0E, 3-15: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-3-14 oc bracing. Except: 10-0-0 oc bracing: 17-19

REACTIONS. (size) 20=0-7-4, 10=0-3-15, 16=0-5-8
Max Horz 20=263(LC 14)
Max Uplift 20=-574(LC 2)
Max Grav 20=74(LC 15), 10=1396(LC 21), 16=3179(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-20=-215/537, 1-2=-1025/1457, 2-3=-903/1417, 3-4=-2023/282, 4-6=-3938/518, 6-7=-3938/522, 7-8=-4010/536, 8-9=-2689/371, 9-10=-1335/208
BOT CHORD	19-20=-895/1176, 2-19=-269/80, 15-16=-2504/346, 13-15=-275/2014, 12-13=-524/4005, 11-12=-358/2683
WEBS	1-19=-1207/426, 16-19=-2399/324, 3-19=-662/1362, 3-16=-2430/508, 3-15=-611/4693, 4-15=-1159/251, 4-13=-256/2033, 6-13=-517/153, 7-12=-442/144, 8-12=-184/1435, 8-11=-1048/231, 9-11=-372/2882

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 22-8-11, Corner(3) 22-8-11 to 37-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 574 lb uplift at joint 20.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-70, 19-20=-20, 17-18=-20, 10-17=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-147-to-22=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-60, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-118-to-22=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-68, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-126-to-22=-68

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-39, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-97-to-22=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-81, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-158-to-22=-81

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-42, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-22=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=13, 1-21=27, 1-9=-9, 9-10=3
Trapezoidal Loads (plf)
Vert: 1=-109-to-22=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-3, 1-21=-27, 1-9=-3, 9-10=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-22=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=10, 1-21=-18, 1-9=-9, 9-10=2
Trapezoidal Loads (plf)
Vert: 1=-109-to-22=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-2, 1-21=-18, 1-9=-3, 9-10=-10
Trapezoidal Loads (plf)
Vert: 1=-114-to-22=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-147-to-22=-70

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T45	Roof Special	5	1	I51408933
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:33 2022 Page 1
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1-11-0	6-4-8	9-4-11	15-6-7	21-8-3	27-8-3	33-9-15
1-11-0	4-5-8	3-0-3	6-1-12	6-1-12	6-0-0	6-1-12

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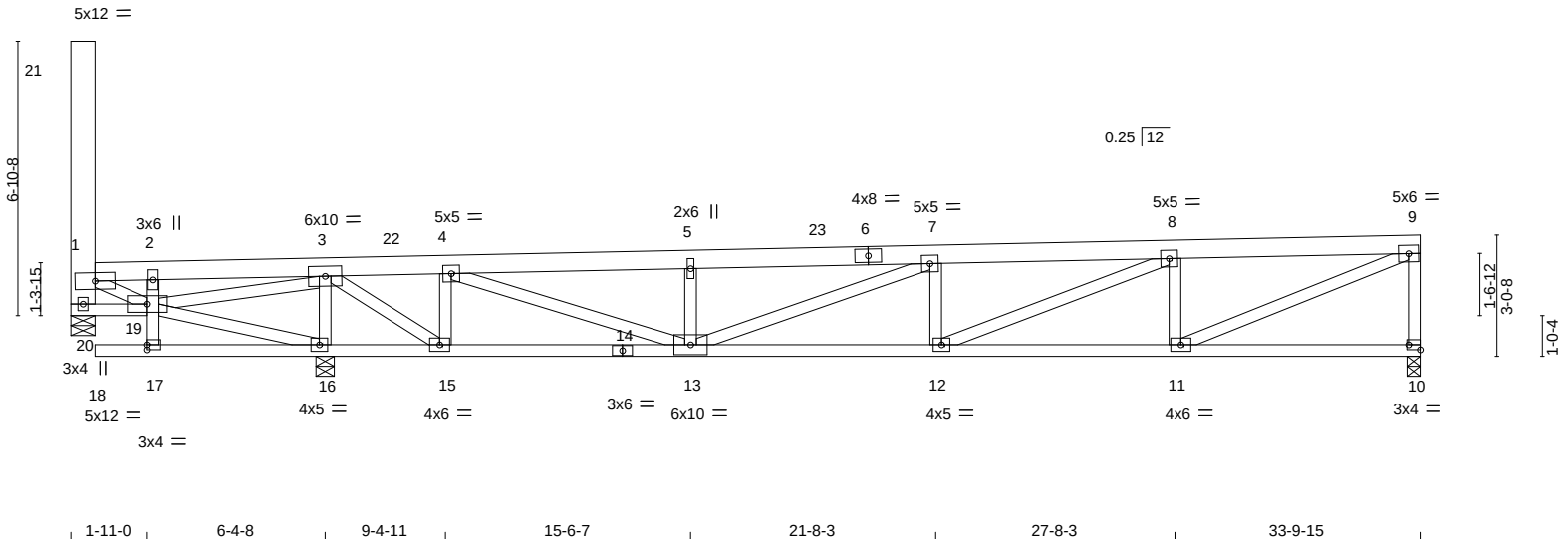

1-11-0	6-4-8	9-4-11	15-6-7	21-8-3	27-8-3	33-9-15
1-11-0	4-5-8	3-0-3	6-1-12	6-1-12	6-0-0	6-1-12

Plate Offsets (X,Y)-- [10:Edge,0-1-8], [17:0-0-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.17	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.35	12-13	>942	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 226 lb	FT = 3%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
20-21: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-2 oc bracing. Except: 10-0-0 oc bracing: 17-19

REACTIONS. (size) 20=0-7-4, 10=0-3-15, 16=0-5-8
Max Horz 20=260(LC 14)
Max Uplift 20=-403(LC 28)
Max Grav 20=92(LC 12), 10=1193(LC 21), 16=2746(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-204/395, 1-2=-959/1058, 2-3=-849/1014, 4-5=-2379/365, 5-7=-2379/370, 7-8=-3029/476, 8-9=-2216/362, 9-10=-1134/211
BOT CHORD 19-20=-806/1144, 2-19=-376/117, 15-16=-2044/362, 12-13=-473/3023, 11-12=-353/2210
WEBS 1-19=-794/364, 16-19=-2004/291, 3-19=-693/1414, 3-16=-2174/484, 3-15=-386/2330, 4-15=-1250/279, 4-13=-392/2652, 5-13=-498/170, 7-13=-698/109, 8-12=-131/882, 8-11=-839/228, 9-11=-366/2369

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-3-10 to 15-3-10, Exterior(2) 15-3-10 to 18-8-3, Corner(3) 18-8-3 to 33-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 403 lb uplift at joint 20.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-147-to-22=-70

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

April 15,2022

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-60, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-118-to-22=-60

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-67, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-125-to-22=-67

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-39, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-97-to-22=-39

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-80, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-157-to-22=-80

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-42, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-119-to-22=-42

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=13, 1-21=27, 1-9=-9, 9-10=3
Trapezoidal Loads (plf)
Vert: 1=-109-to-22=-51

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-3, 1-21=-27, 1-9=-3, 9-10=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-22=-57

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-51, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=10, 1-21=-18, 1-9=-9, 9-10=2
Trapezoidal Loads (plf)
Vert: 1=-109-to-22=-51

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 9-22=-57, 19-20=-20, 17-18=-20, 10-17=-20
Horz: 1-20=-2, 1-21=-18, 1-9=-3, 9-10=-10
Trapezoidal Loads (plf)
Vert: 1=-114-to-22=-57

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 9-22=-70, 19-20=-20, 17-18=-20, 10-17=-20
Trapezoidal Loads (plf)
Vert: 1=-147-to-22=-70

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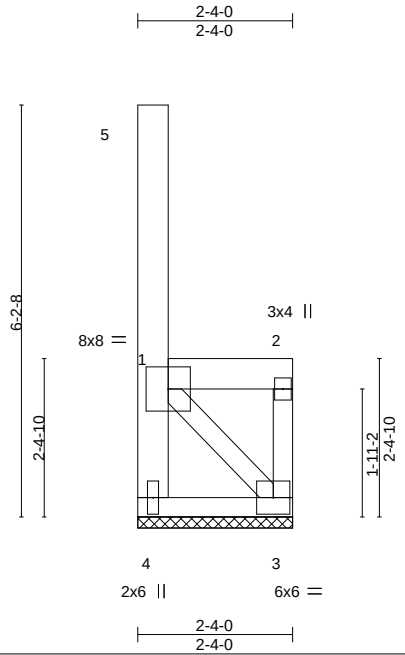
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T46	Roof Special	1	1	I51408934
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:33 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-LONusdg10Q4_DVOoLyO0qJt78LS98QhqmSICh8zQTLy



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-187(LC 11)
Max Uplift 4=-315(LC 11), 3=-315(LC 12)
Max Grav 4=368(LC 25), 3=368(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-406/946
BOT CHORD 3-4=-367/651
WEBS 1-3=-890/499

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 4 and 315 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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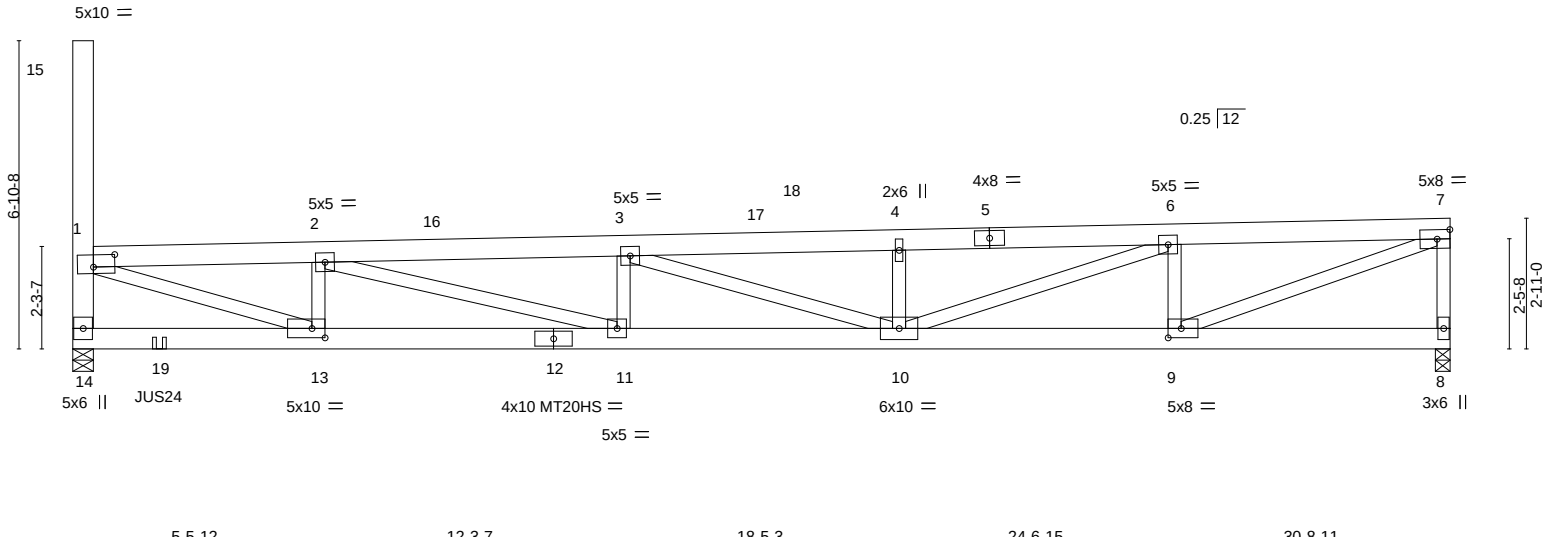
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T47	Roof Special Girder	2	1	I51408935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:35 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-HmVfHJilY1KiSpYBSNRUvkyVK8_4c7N7EmnJl0zQTLw

5-5-12	12-3-7	18-5-3	24-6-15	30-8-11
5-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Scale = 1:51.4



5-5-12	12-3-7	18-5-3	24-6-15	30-8-11
5-5-12	6-9-11	6-1-12	6-1-12	6-1-12

Plate Offsets (X,Y)-- [1:0-5-12,0-3-4], [7:0-3-7,0-2-8], [9:0-3-8,0-2-8], [13:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.35	10-11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.67	10-11	>542	360	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 215 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
14-15: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-9 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-3-15
Max Horz 14=225(LC 12)
Max Uplift 14=-399(LC 11)
Max Grav 14=1914(LC 21), 8=1542(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1730/437, 1-2=-3920/1304, 2-3=-5626/1353, 3-4=-5216/1139, 4-6=-5216/1144, 6-7=-3288/674, 7-8=-1467/339
BOT CHORD 13-14=-608/704, 11-13=-1358/3911, 10-11=-1402/5618, 9-10=-706/3282
WEBS 1-13=-981/3852, 2-13=-1139/368, 2-11=-670/1775, 3-11=-365/242, 3-10=-431/232, 4-10=-471/175, 6-10=-509/2062, 6-9=-1203/365, 7-9=-732/3471

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 15-6-15, Corner(3) 15-6-15 to 30-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 14.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 1-11-3 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-70, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-128(B)
   Trapezoidal Loads (plf)
   Vert: 1=-150-to-16=-70
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-103(B)
   Trapezoidal Loads (plf)
   Vert: 1=-120-to-16=-60
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-67, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-103(B)
   Trapezoidal Loads (plf)
   Vert: 1=-127-to-16=-67
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-39, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-103(B)
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-16=-39
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-79, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-128(B)
   Trapezoidal Loads (plf)
   Vert: 1=-159-to-16=-79
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 7-16=-42, 8-14=-20
   Concentrated Loads (lb)
   Vert: 19=-128(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-16=-42
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
   Concentrated Loads (lb)
   Vert: 19=292(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
   Concentrated Loads (lb)
   Vert: 19=292(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-51, 8-14=-20
   Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
   Concentrated Loads (lb)
   Vert: 19=292(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-16=-51
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 7-16=-57, 8-14=-20
   Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
   Concentrated Loads (lb)
   Vert: 19=292(B)
   Trapezoidal Loads (plf)
   Vert: 1=-117-to-16=-57
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 7-16=-70, 8-14=-20
Concentrated Loads (lb)
Vert: 19=-128(B)
Trapezoidal Loads (plf)
Vert: 1=-150-to-16=-70

49) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=13, 1-15=27, 1-7=-9, 7-8=3
Concentrated Loads (lb)
Vert: 19=-416(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

50) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-3, 1-15=-27, 1-7=-3, 7-8=-13
Concentrated Loads (lb)
Vert: 19=-416(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

51) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-51, 8-14=-20
Horz: 1-14=10, 1-15=-18, 1-7=-9, 7-8=2
Concentrated Loads (lb)
Vert: 19=-416(B)
Trapezoidal Loads (plf)
Vert: 1=-111-to-16=-51

52) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 7-16=-57, 8-14=-20
Horz: 1-14=-2, 1-15=-18, 1-7=-3, 7-8=-10
Concentrated Loads (lb)
Vert: 19=-416(B)
Trapezoidal Loads (plf)
Vert: 1=-117-to-16=-57

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T50	Roof Special	2	1	I51408936
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:41 2022 Page 1
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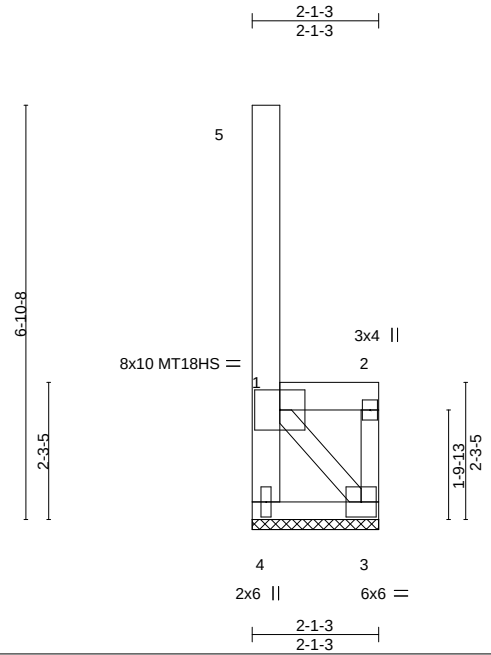

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-3 oc bracing.

REACTIONS. (size) 4=2-1-3, 3=2-1-3
Max Horz 4=-213(LC 11)
Max Uplift 4=-451(LC 11), 3=-451(LC 12)
Max Grav 4=487(LC 14), 3=487(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-598/1316, 2-3=-343/244
BOT CHORD 3-4=-442/808
WEBS 1-3=-1161/631

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=451, 3=451.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T51	Roof Special	2	1	I51408937
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:42 2022 Page 1
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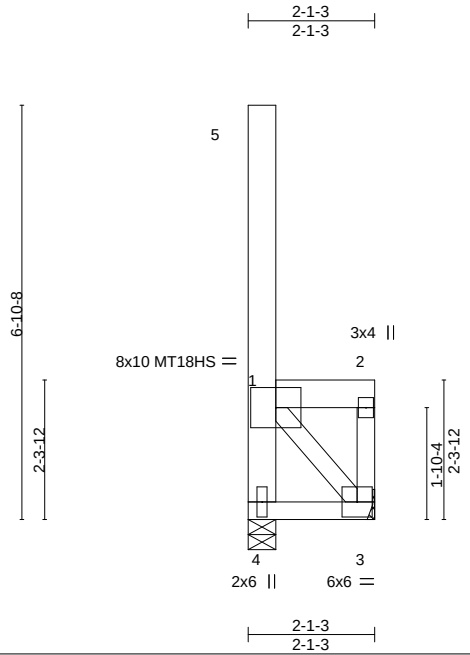

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.00	4	>999	360	MT18HS	244/190
TCDL	15.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-212(LC 11)
Max Uplift 4=-450(LC 11), 3=-450(LC 12)
Max Grav 4=486(LC 14), 3=486(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-598/1313, 2-3=-339/242
BOT CHORD 3-4=-435/794
WEBS 1-3=-1152/627

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=450, 3=450.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T52	Roof Special	1	1	I51408938
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:42 2022 Page 1
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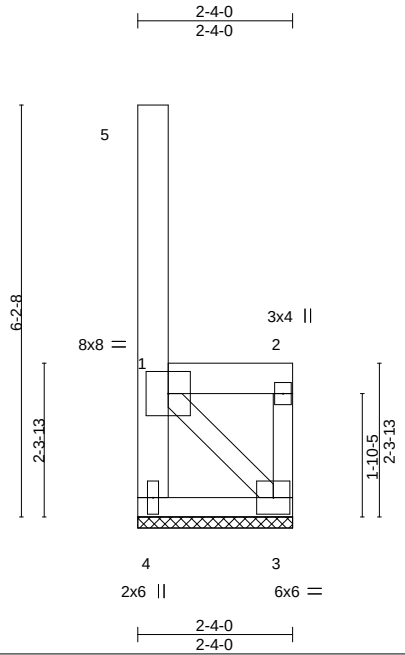

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-15 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-188(LC 11)
Max Uplift 4=-316(LC 11), 3=-316(LC 12)
Max Grav 4=369(LC 25), 3=369(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-413/950
BOT CHORD 3-4=-376/670
WEBS 1-3=-904/504

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=316, 3=316.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T53	Roof Special	1	1	I51408939
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:43 2022 Page 1
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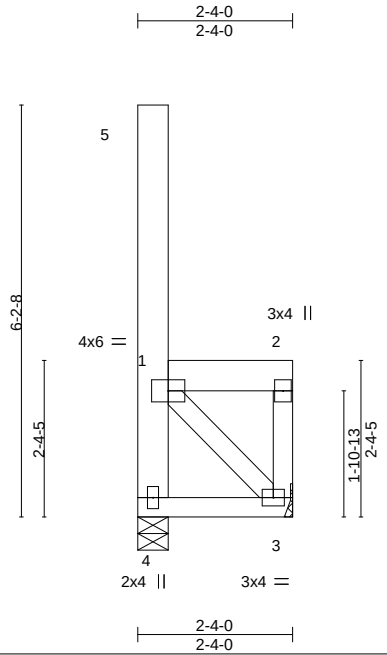

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 27 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=42(LC 12)
Max Uplift 4=-18(LC 11), 3=-18(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T55	Roof Special	1	1	I51408940
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:44 2022 Page 1
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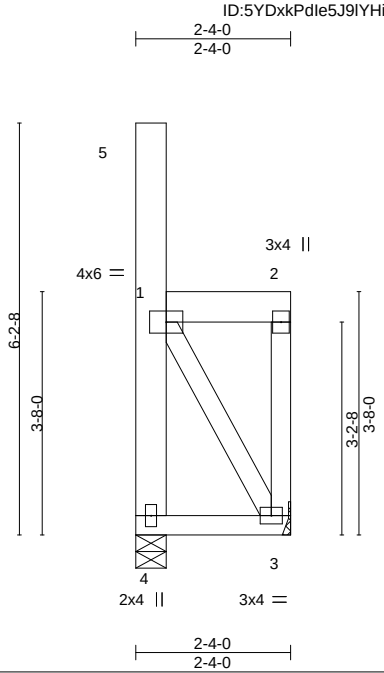

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-70(LC 11)
Max Uplift 4=-55(LC 11), 3=-55(LC 12)
Max Grav 4=173(LC 25), 3=173(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T56	Roof Special	1	1	I51408941
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:44 2022 Page 1
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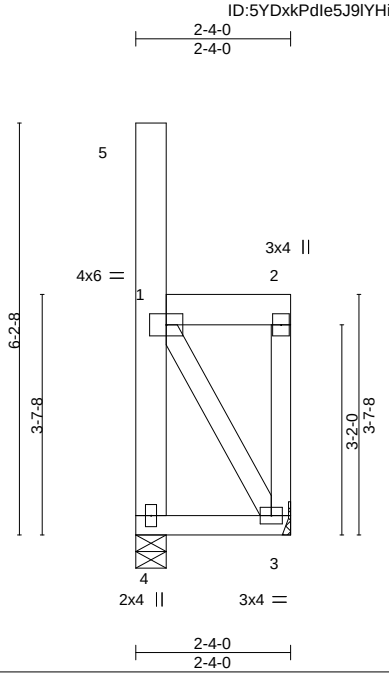

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-69(LC 11)
Max Uplift 4=-54(LC 11), 3=-54(LC 12)
Max Grav 4=172(LC 25), 3=172(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

April 15,2022

Continued on page 2

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LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T57	Roof Special	1	1	I51408942
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:45 2022 Page 1
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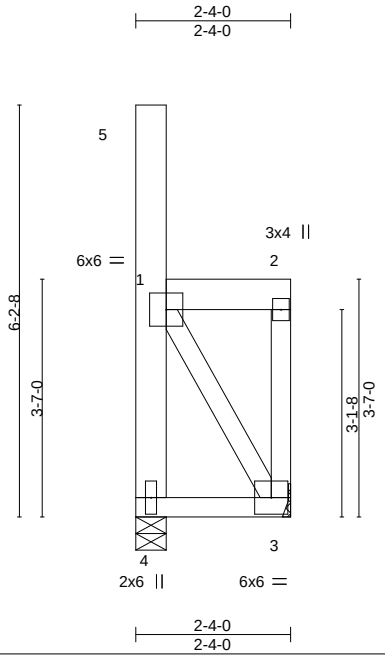

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-170(LC 11)
Max Uplift 4=-293(LC 11), 3=-293(LC 12)
Max Grav 4=351(LC 25), 3=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-399/864
BOT CHORD 3-4=-279/447
WEBS 1-3=-768/477

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=293, 3=293.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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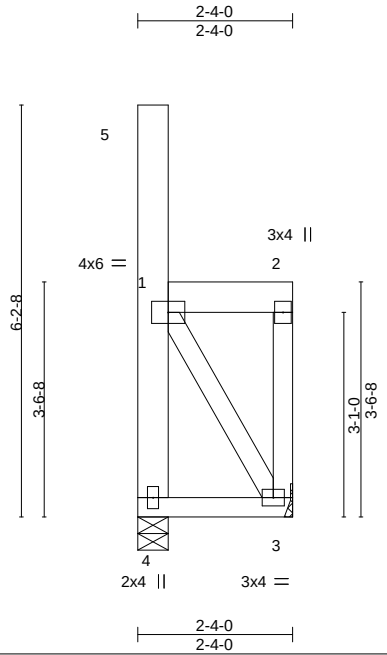
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T58	Roof Special	1	1	I51408943
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:46 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-Tugpb4qByPj8GVtIbA73s2vUfawrhJJkm_yOetzQTLI



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-68(LC 11)
Max Uplift 4=-51(LC 11), 3=-51(LC 12)
Max Grav 4=170(LC 25), 3=170(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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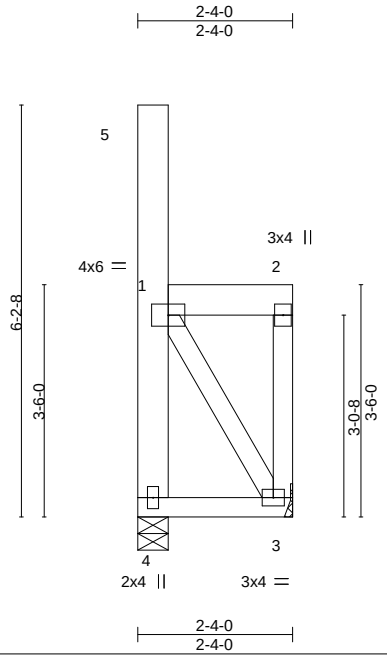
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T59	Roof Special	1	1	I51408944
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:46 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-Tugpb4qByPj8GVtIbA73s2vUiawrhJLkm_yOetzQTLl



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-67(LC 11)
Max Uplift 4=-49(LC 11), 3=-49(LC 12)
Max Grav 4=168(LC 25), 3=168(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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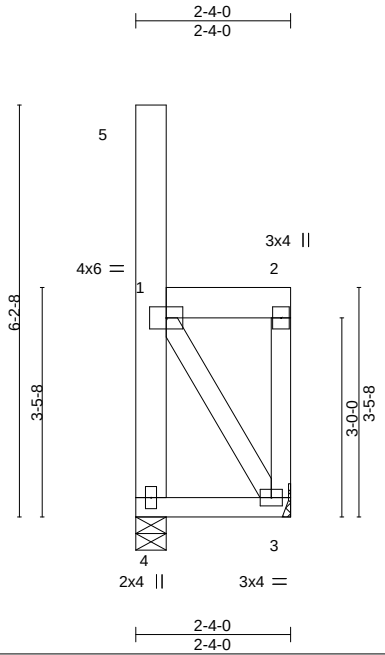
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T60	Roof Special	1	1	I51408945
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:49 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-tTLxD5s4FK5j8yctHJhmUhX?_nyYug6BSyA2FCzQTLi



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-66(LC 11)
Max Uplift 4=-48(LC 11), 3=-48(LC 12)
Max Grav 4=167(LC 25), 3=167(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4 and 48 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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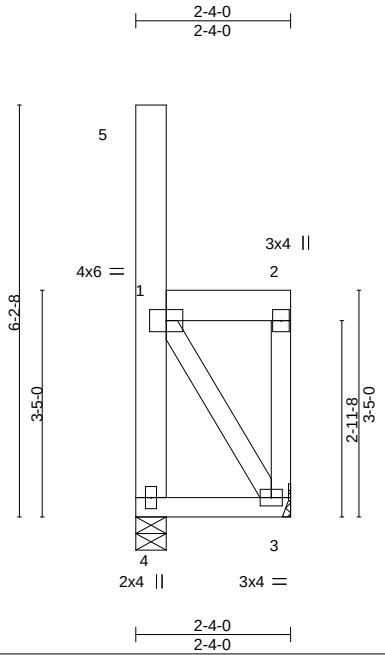
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T61	Roof Special	1	1	I51408946
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:50 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-LfvKRRti0eDZl6B3q0C?0u4AnBHod7MKgcwbnezQTLh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-65(LC 11)
Max Uplift 4=-47(LC 11), 3=-47(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 47 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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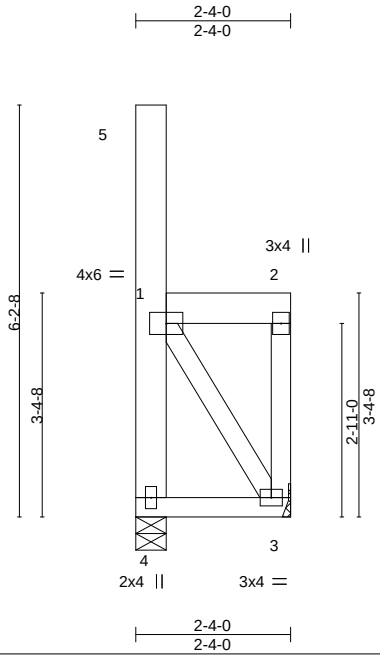
Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T62	Roof Special	1	1	I51408947
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:50 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-LfvKRRti0eDZl6B3q0C?0u4ApBHod7NKgcwbnezQTLh



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-64(LC 11)
Max Uplift 4=-45(LC 11), 3=-45(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 45 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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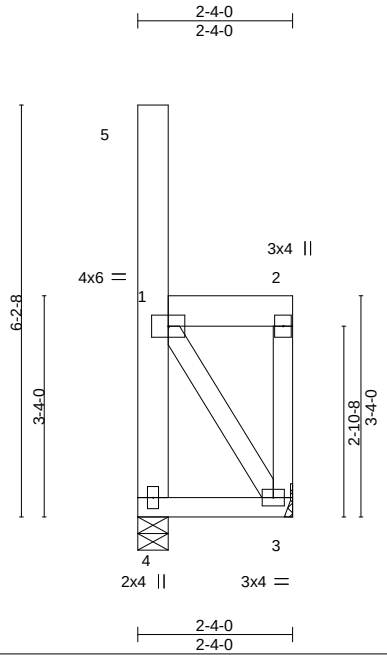
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T63	Roof Special	1	1	I51408948
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:51 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-prTienuKnyLQNGmFOkjEZ6cLbbd1MadTvFf9J5zQTLg



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=63(LC 12)
Max Uplift 4=-44(LC 11), 3=-44(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 4 and 44 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T64	Roof Special	1	1	I51408949
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:52 2022 Page 1
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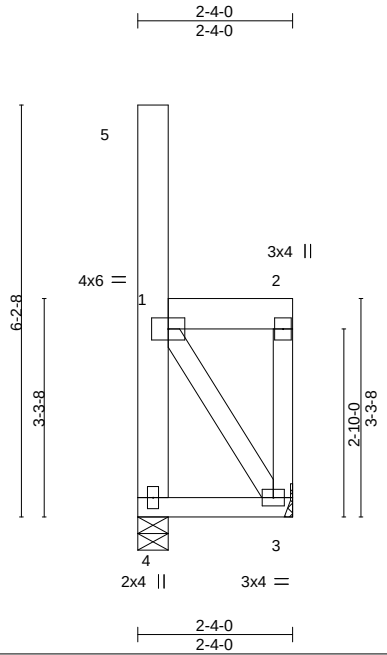

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-62(LC 11)
Max Uplift 4=-42(LC 11), 3=-42(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 42 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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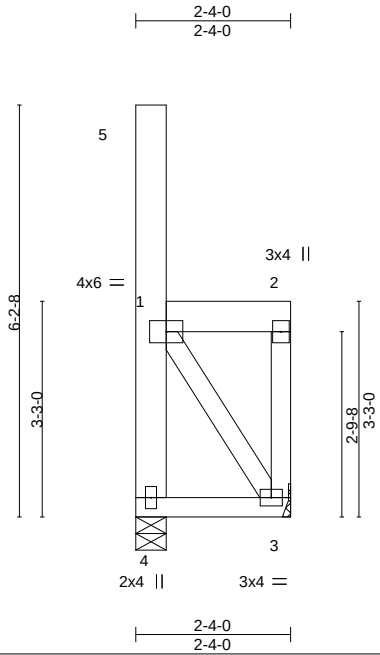
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T65	Roof Special	1	1	I51408950
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:52 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-H214s7vyYFTH?QLSyRET5J9WP?zH51ud8vPisXzQTLf



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-61(LC 11)
Max Uplift 4=-41(LC 11), 3=-41(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4 and 41 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T66	Roof Special	1	1	I51408951
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:53 2022 Page 1
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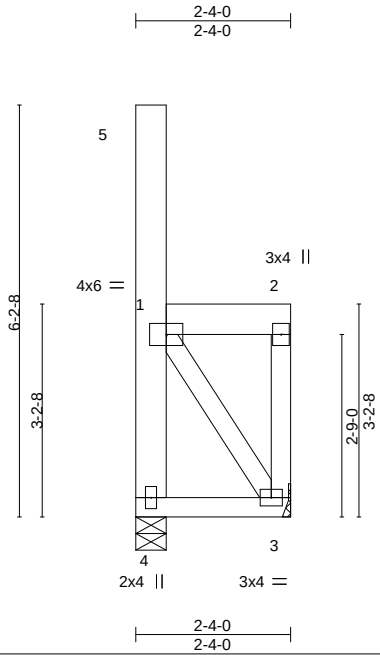

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-61(LC 11)
Max Uplift 4=-40(LC 11), 3=-40(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 40 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T67	Roof Special	1	1	I51408952
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:54 2022 Page 1
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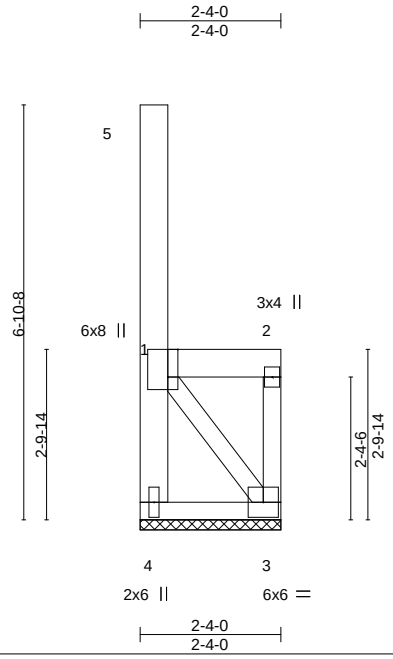

Plate Offsets (X,Y)-- [1:0-5-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=205(LC 12)
Max Uplift 4=-387(LC 11), 3=-387(LC 12)
Max Grav 4=429(LC 14), 3=429(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-512/1142
BOT CHORD 3-4=-379/666
WEBS 1-3=-1010/570

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 4 and 387 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T68	Roof Special	1	1	I51408953
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:54 2022 Page 1
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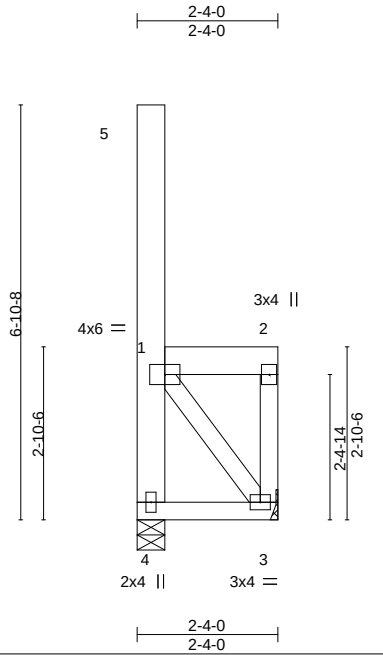

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-53(LC 11)
Max Uplift 4=-30(LC 11), 3=-30(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 30 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T69	Roof Special	1	1	I51408954
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:55 2022 Page 1
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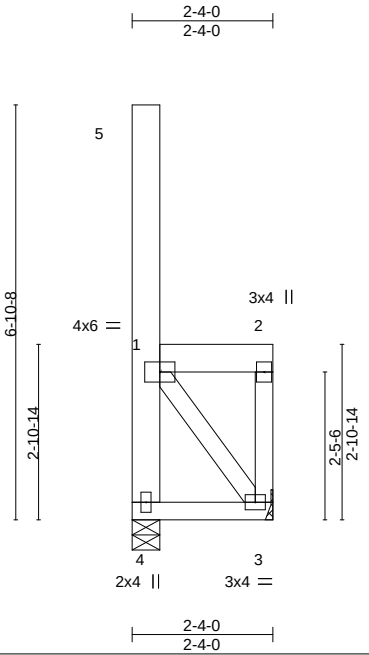

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 30 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-54(LC 11)
Max Uplift 4=-31(LC 11), 3=-31(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 31 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T70	Roof Special	1	1	I51408955
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:58 2022 Page 1
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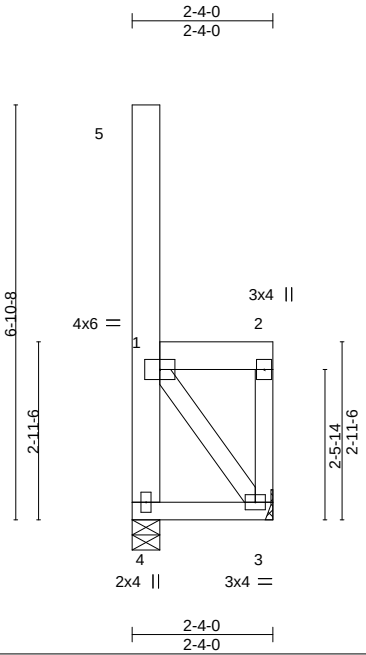

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-55(LC 11)
Max Uplift 4=-32(LC 11), 3=-32(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 32 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T71	Roof Special	1	1	I51408956
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:59 2022 Page 1
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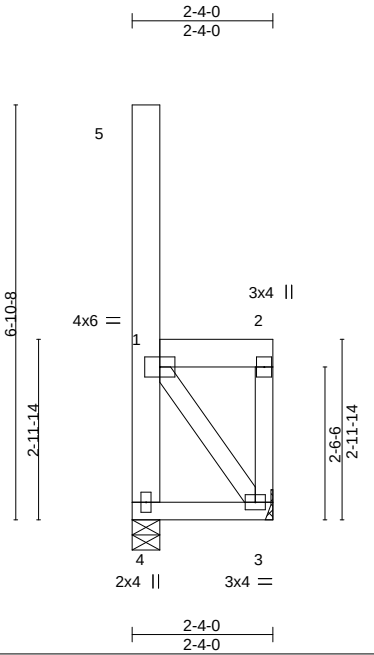

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-56(LC 11)
Max Uplift 4=-33(LC 11), 3=-33(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 33 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T72	Roof Special	1	1	I51408957
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:44:59 2022 Page 1
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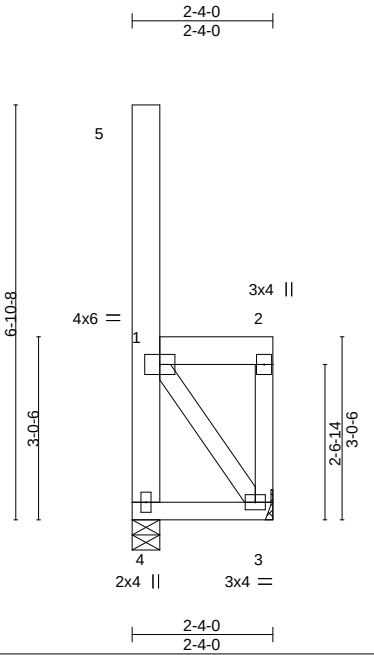

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-57(LC 11)
Max Uplift 4=-35(LC 11), 3=-35(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 35 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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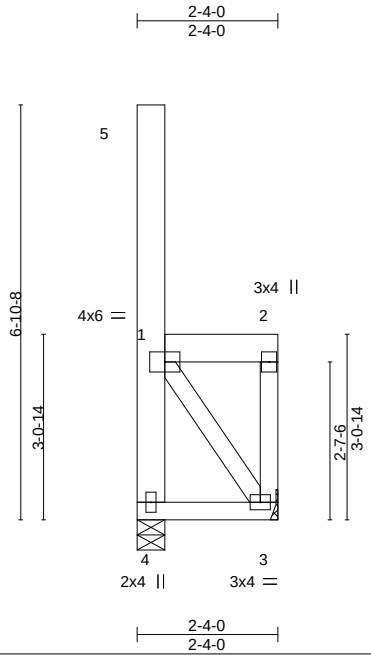
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T73	Roof Special	1	1	I51408958
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:00 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-2aW6Xs?zfjT9yfy_Q7NLQ?UtXDiAzewo_9L783zQTLX



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-58(LC 11)
Max Uplift 4=-36(LC 11), 3=-36(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4 and 36 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T74	Roof Special	1	1	I51408959
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:01 2022 Page 1
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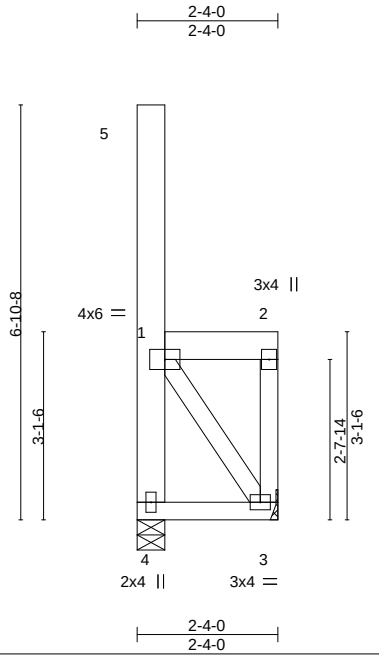

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=59(LC 12)
Max Uplift 4=-37(LC 11), 3=-37(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4 and 37 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T75	Roof Special	1	1	I51408960
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:01 2022 Page 1
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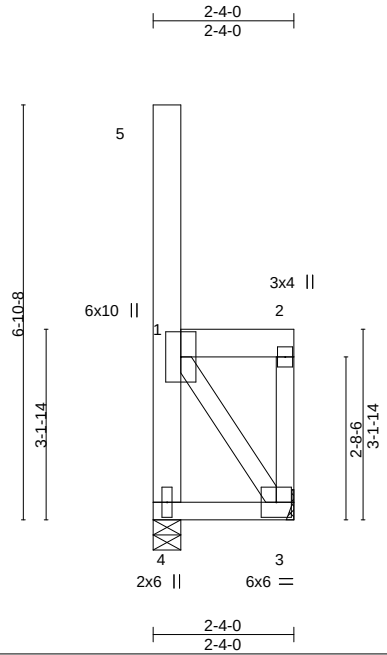

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=200(LC 12)
Max Uplift 4=-381(LC 11), 3=-381(LC 12)
Max Grav 4=422(LC 14), 3=422(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-511/1119
BOT CHORD 3-4=-351/601
WEBS 1-3=-975/564

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 381 lb uplift at joint 4 and 381 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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MiTek
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T77	Roof Special	1	1	I51408961
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:02 2022 Page 1
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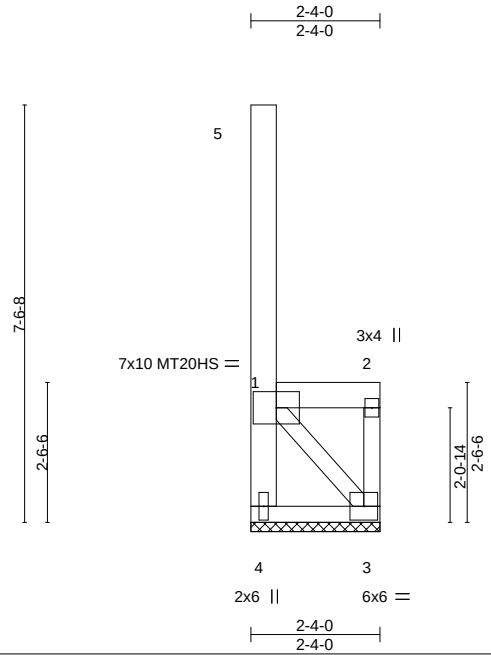

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	15.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 3=2-4-0
Max Horz 4=-234(LC 11)
Max Uplift 4=-480(LC 11), 3=-480(LC 12)
Max Grav 4=521(LC 14), 3=521(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-635/1405, 2-3=-312/238
BOT CHORD 3-4=-498/908
WEBS 1-3=-1303/710

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable requires continuous bottom chord bearing.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 4 and 480 lb uplift at joint 3.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

April 15,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T78	Roof Special	1	1	I51408962
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:03 2022 Page 1
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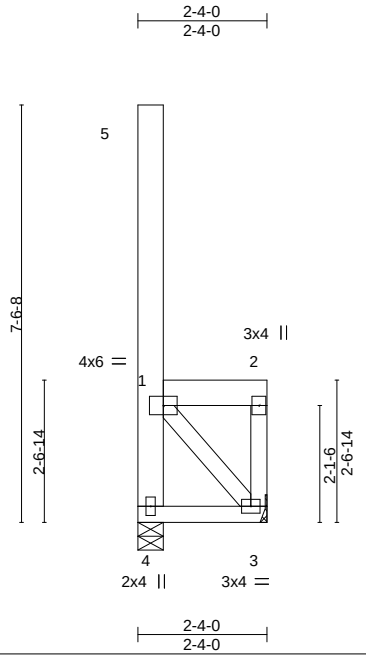

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-47(LC 11)
Max Uplift 4=-22(LC 11), 3=-22(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4 and 22 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T79	Roof Special	1	1	I51408963
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:04 2022 Page 1
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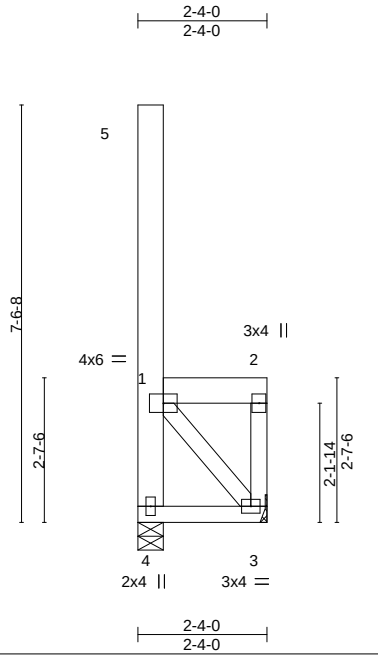

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-48(LC 11)
Max Uplift 4=-23(LC 11), 3=-23(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 23 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T80	Roof Special	1	1	I51408964
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:09 2022 Page 1
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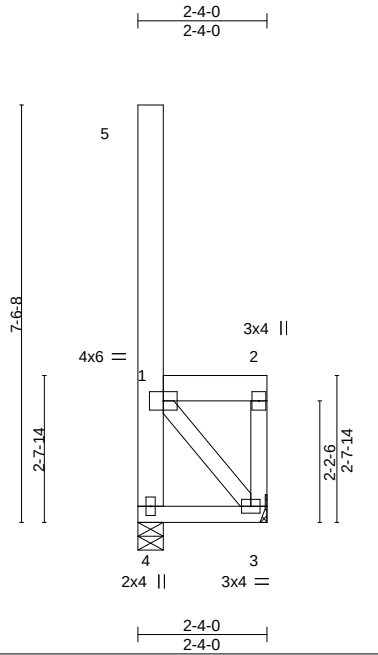

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-49(LC 11)
Max Uplift 4=-24(LC 11), 3=-24(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
April 15,2022

Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T81	Roof Special	1	1	I51408965
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:10 2022 Page 1
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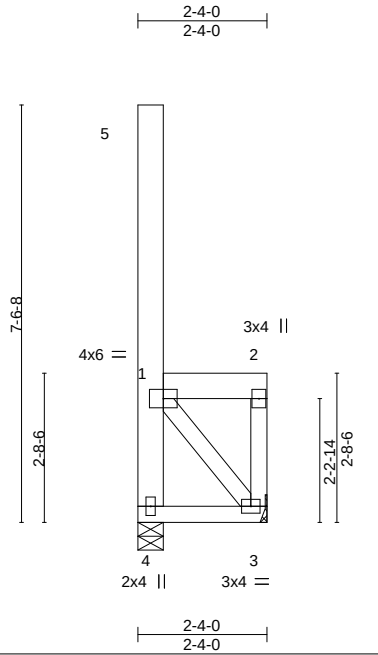

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-50(LC 11)
Max Uplift 4=-25(LC 11), 3=-25(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T82	Roof Special	1	1	I51408966
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:10 2022 Page 1
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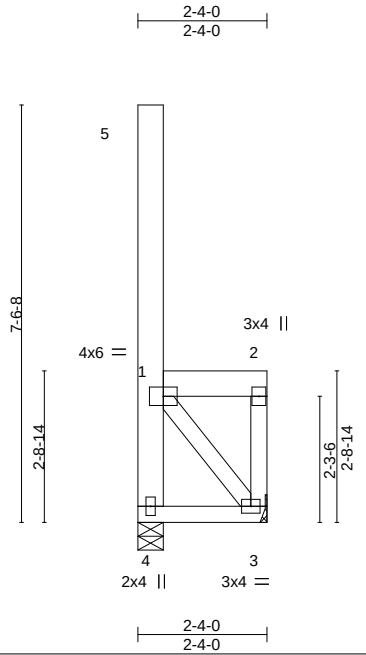

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-50(LC 11)
Max Uplift 4=-27(LC 11), 3=-27(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

April 15,2022

Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T83	Roof Special	1	1	I51408967
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:11 2022 Page 1
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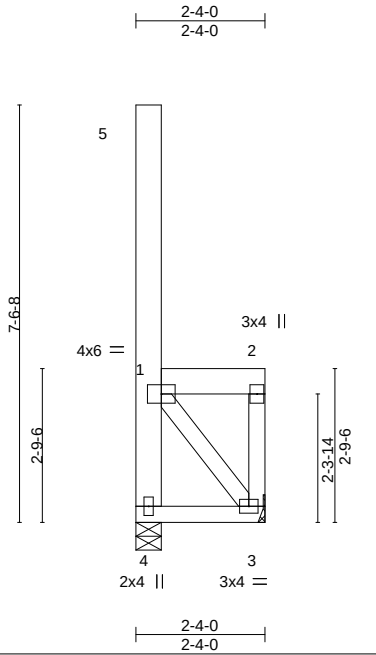

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-51(LC 11)
Max Uplift 4=-28(LC 11), 3=-28(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

April 15,2022

Continued on page 2

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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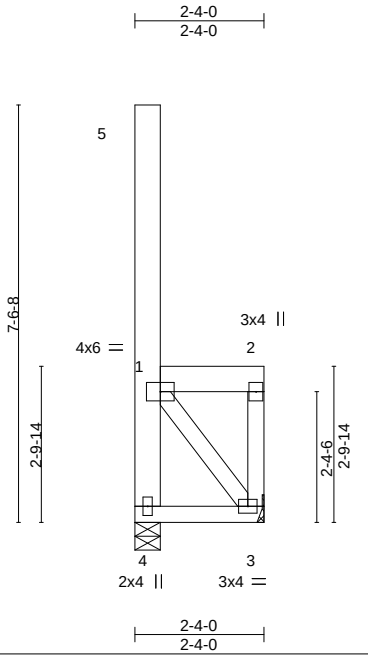
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T84	Roof Special	1	1	I51408968
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:12 2022 Page 1
ID:5YDxkPdIe5J9lYHij4yaj?z6jAz-iuEe2z8VrP_SOVtl7eb9vX_yh3o?n4yZk1FmZNzQTLL



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-52(LC 11)
Max Uplift 4=-29(LC 11), 3=-29(LC 12)
Max Grav 4=166(LC 1), 3=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

April 15,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T85	GABLE	1	1	I51408969
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:13 2022 Page 1
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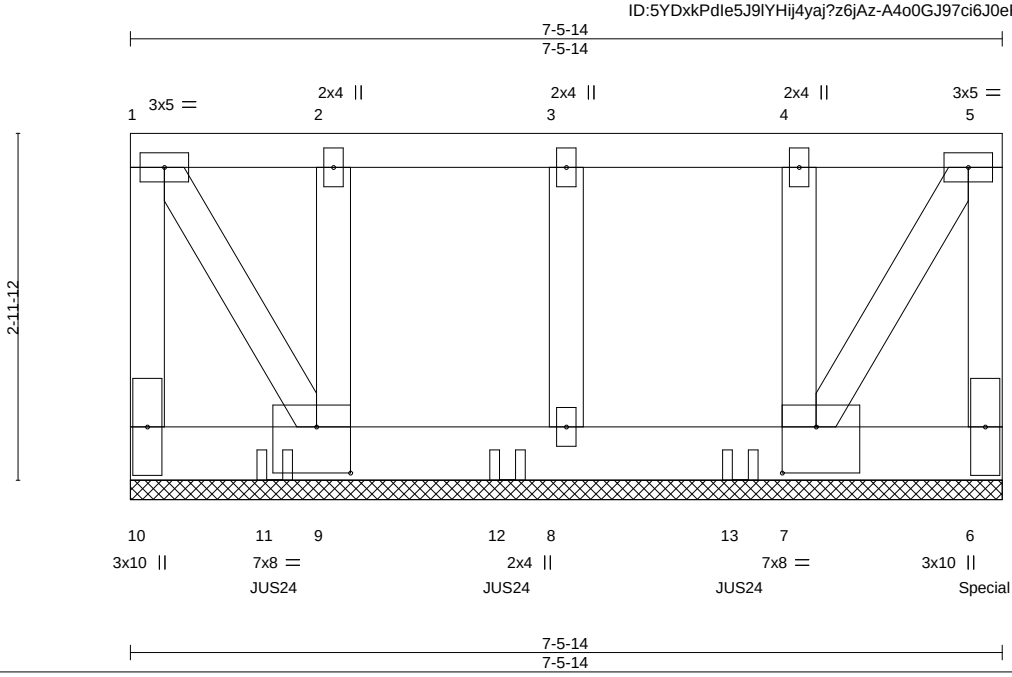

Plate Offsets (X,Y)-- [7:0-3-8,0-4-12], [9:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 53 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-5-14.
(lb) - Max Horz 10=-56(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except 10=-1166(LC 39), 6=-1079(LC 42), 9=-1065(LC 42), 7=-1090(LC 39)
Max Grav All reactions 250 lb or less at joint(s) except 10=1233(LC 60), 6=1407(LC 59), 8=657(LC 1), 9=1506(LC 59), 7=1444(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-1203/1209, 1-2=-694/696, 2-3=-407/403, 3-4=-407/403, 4-5=-694/696, 5-6=-1232/1238
BOT CHORD	9-10=-410/421, 8-9=-446/459, 7-8=-446/459, 6-7=-343/353
WEBS	1-9=-1455/1462, 5-7=-1419/1425

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1166 lb uplift at joint 10, 1079 lb uplift at joint 6, 1065 lb uplift at joint 9 and 1090 lb uplift at joint 7.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 7-5-14 for 200.0 plf.
13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-14 from the left end to 5-2-14 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

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Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
					I51408969
PRYOR-R2C	T85	GABLE	1	1	Job Reference (optional)

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 468 lb down at 7-4-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 6-10=-20
   Concentrated Loads (lb)
   Vert: 6=-468(B) 11=-459(B) 12=-459(B) 13=-459(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T86	Roof Special	1	1	I51408970
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:14 2022 Page 1
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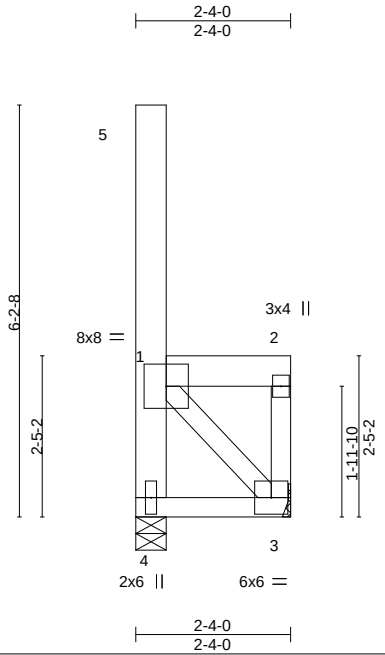

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-187(LC 11)
Max Uplift 4=-315(LC 11), 3=-315(LC 12)
Max Grav 4=367(LC 25), 3=367(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-402/944
BOT CHORD 3-4=-362/639
WEBS 1-3=-883/496

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 4 and 315 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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Continued on page 2

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T87	Roof Special	1	1	I51408971
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:15 2022 Page 1
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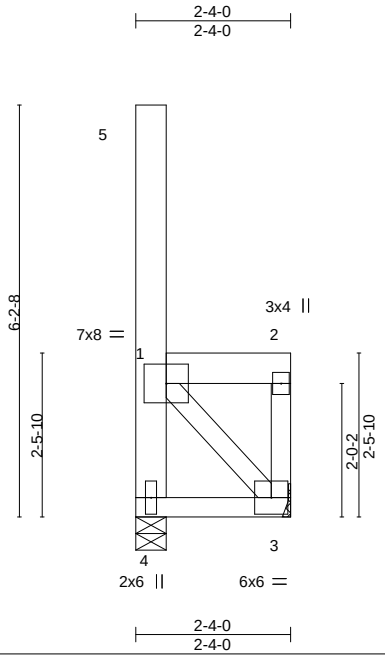

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-186(LC 11)
Max Uplift 4=-314(LC 11), 3=-314(LC 12)
Max Grav 4=367(LC 25), 3=367(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-402/942
BOT CHORD 3-4=-357/629
WEBS 1-3=-876/494

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 4 and 314 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

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LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Building 2 Area C ROOF

Job	Truss	Truss Type	Qty	Ply	WEST PRYOR-AREA C BLDG 2 (ROOF)
PRYOR-R2C	T88	Roof Special	1	1	I51408972
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Apr 15 12:45:16 2022 Page 1
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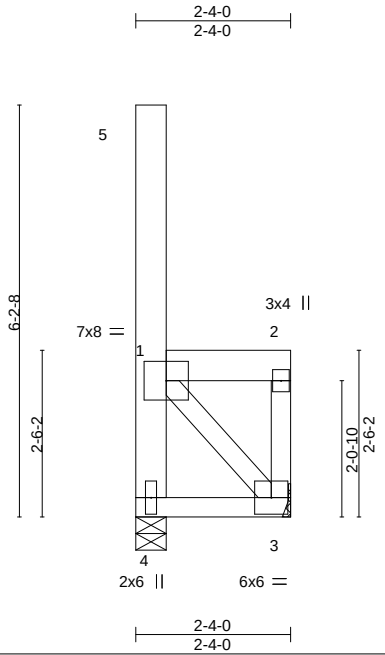

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.00	4	****	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	4	>999	360		
TCDL	15.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-185(LC 11)
Max Uplift 4=-313(LC 11), 3=-313(LC 12)
Max Grav 4=367(LC 25), 3=367(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-401/939
BOT CHORD 3-4=-352/619
WEBS 1-3=-869/491

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 3 degree rotation about its center.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 4 and 313 lb uplift at joint 3.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-120, 3-4=-20

April 15,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-110, 3-4=-20

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=13, 1-5=27, 2-3=3

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-3, 1-5=-27, 2-3=-13

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=10, 1-5=-18, 2-3=2

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=-111, 3-4=-20
Horz: 1-4=-2, 1-5=-18, 2-3=-10

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-150, 3-4=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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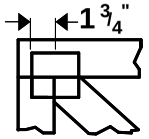
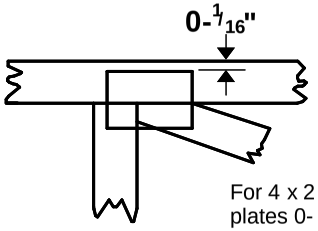
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

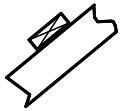
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

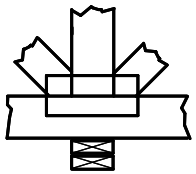
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

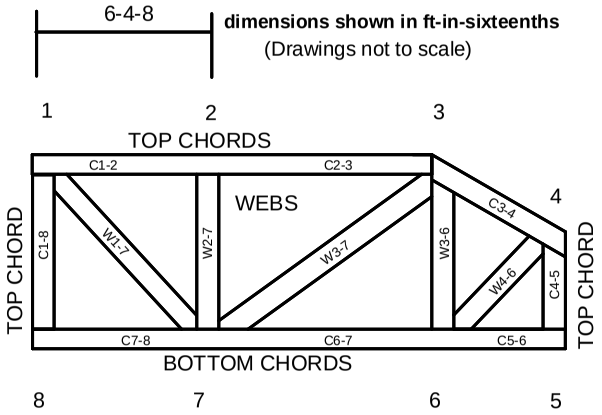


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Building 2 Area C ROOF

MAINTENANCE/POOL BUILDING ROOF

B D C

Structural Engineers – Since 1957

4338 Belleview
Kansas City, MO 64111
(816) 531-4144 FAX (816) 531-8572

BOB D. CAMPBELL & CO., INC.

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Administrative Manager
Paul M. Spena

TRANSMITTAL LETTER

DATE: June 26, 2022

TO: TR,i Architects

ADDRESS: 9812 Manchester Road
St. Louis, Missouri 63119

RE: Summit Phase 3

TRANSMITTING:

DESCRIPTION	REMARKS
Pool roof truss Shop Drawings	REVIEWED

BDC SHOP DRAWING STAMP COMMENTARY

This review was performed only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Modifications or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item does not include approval of the assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and coordinated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.

DEFINITIONS

APPROVED
Submitted materials appear to satisfy design intent if installed using specified materials in a workmanlike manner. Fabrication and construction may proceed.

FURNISH AS CORRECTED
Submitted materials appeared basically satisfactory, but minor corrections were indicated by the reviewer. Fabrication and construction may proceed if the indicated corrections are included in the materials fabricated and installed prior to fabrication. Resubmittal of shop drawings is not required.

REJECTED, REVISE AND RESUBMIT
Significant errors or omissions were found in the submitted materials; refer to the review comments for detailed comments. The submitted materials do not satisfy design intent and / or specifications. Revise shop drawings to conform to design documents and resubmit for review.

RETURNED NOT REVIEWED
The materials submitted were not reviewed and are being returned without comments for one or more of the following reasons:

- The submission contains materials not shown on structural design documents or called for in the structural general notes or applicable specifications.
- The submitted materials were inadequate for review either in scope, quality, or sufficient detail.
- The submitted materials do not require review by the structural engineer of record.
- The submitted materials have not been reviewed first by the general contractor in compliance with the specifications and/or do not carry the general contractor's review stamp.

REVIEWED
Review is for general compliance with the information provided in the contract documents and for general conformance with the design concepts of the project. Any item noted herein is subject to the requirements set forth in the contract documents.

BOB D. CAMPBELL & CO., INC.
Structural Engineers

BY: Clark A. Basinger, P.E.

VIA: Emailed by cbasinger@bdc-engrs.com

BDC Project No. TRI2102

Brinkmann CONSTRUCTORS

Employee-Owned

TRANSMITTAL

Hannah Robinson, Project Intern
Brinkmann Constructors
11101 Switzer Road, Suite 310
Overland Park, KS 66210

Date: 6/21/2022

To:
TR,i Architects
Attn: Michaela Silva
1790 S Brentwood Blvd
St. Louis, MO 63144

Re: **Signature at West Pryor**
2100 NW Lowenstein Dr.
Lee's Summit, MO 64081
Job #: 1386

We are sending:

- ☐ Product Data
- ☐ Reports
- ☑ Shop Drawings
- ☐ Samples
- ☐ Other

Transmitted as checked:

- ☑ For Approval
- ☐ For Your Use
- ☐ As Requested
- ☐ Approved as Submitted
- ☐ Other

Transmitted via:

- ☑ Via email (PDF)
- ☐ Copies to follow (USPS/Ground)

Submittal Number	Description	Date Submitted	Due Date
061753-20	Pool House Roof Truss - SD	6/21/2022	7/15/2022

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

- ☐ APPROVED
- ☐ FURNISH AS CORRECTED
- ☐ REJECTED. REVISE & RESUBMIT
- ☐ RETURNED NOT REVIEWED
- ☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 06/26/2022 *BY:* CB

REVIEWED ☑ DATE RECIEVED:
REVIEWED AS NOTED ☐ DATE REVIEWED: 7/20/2022
REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

TRi ARCHITECTS

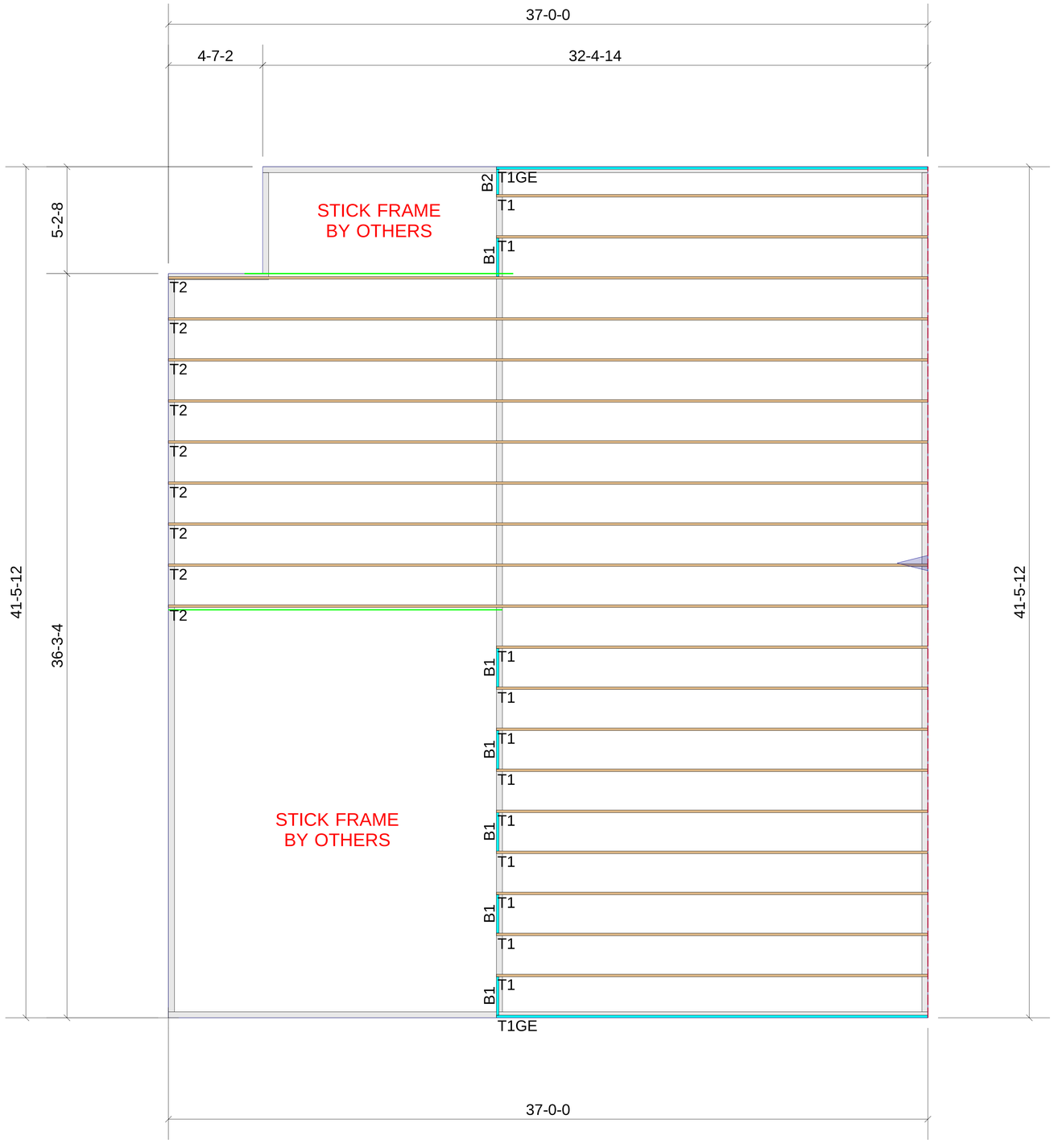
1790 Brentwood Blvd.
St. Louis, Missouri 63144
314.395.9750
www.triarchitects.com

Brinkmann Approval

Submittals bearing this stamp have been verified or will be verified as to materials, field measurements and construction criteria related thereto and have been coordinated with the Contract Documents. The Sub-contractor is responsible to the General Contractor for dimensions to be confirmed and correlated at the job site, and for information that pertains to the fabrication process or to the technique of construction and for coordination of the work with all trades.

By: Hannah Robinson	Date: 6/21/2022

Brinkmann Comments in Green



TRUSS LAYOUT

Scale: 1/8" = 1'-0

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

Truss performance depends not only on proper design and fabrication, but also on proper handling installation and bracing. The truss engineering and the HIB-91 SUMMARY SHEET provided should be carefully reviewed before installing any truss. If you need any additional information regarding specific installation or bracing requirements for your particular project,consult with the engineer of record or building designer for your project.

MCCAMBRIDGE BROS

TEH SIGNATURE AT WEST PRYOR
POOL HOUSE
ROOF

Telephone:
Contact:
Drawn By:
Fax:
Sales:
Date:

MID AMERICA TRUSS
9826 BIG MEADOWS ROAD
JEFFERSON CITY MO 65101
OFFICE: (573) 395-3400
FAX : (573) 395-3410

MAINTENANCE/POOL BUILDING ROOF

Job	Truss	Truss Type	Qty	Ply	PRYOR-POOL HOUSE
PRYOR-POOL_HOUSE	B1	Roof Special Supported Gable	6	1	I52662511
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 21 09:21:47 2022 Page 1
ID:TL?v8fSA0IE2YGnrl3PhALz4Qfs-CYKSBmfYEFe26cFP7brDOP?5Dza?uBR7MrkW7nz45y2

REVIEWED ☑ DATE RECIEVED:

REVIEWED AS NOTED ☐ DATE REVIEWED: 7/20/2022

REVISE AND RESUBMIT ☐ REVIEWED BY: michaela.silva

SUBMITTAL HAS BEEN REVIEWED ONLY FOR CONFORMANCE WITH INFORMATION AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS. REVIEW DOES NOT COVER AND CONTRACTOR REMAINS RESPONSIBLE FOR: QUANTITIES, ACCURACY, DIMENSIONS, FIT, INSTALLATION, PERFORMANCE OF EQUIPMENT OR SYSTEMS, COORDINATION WITH OTHER TRADES, ETC., AS OUTLINED IN AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, APPLICABLE EDITION. REVIEW DOES NOT AUTHORIZE ANY CHANGES IN THE CONTRACT REQUIREMENTS UNLESS STATED IN AN APPROVED CHANGE ORDER.

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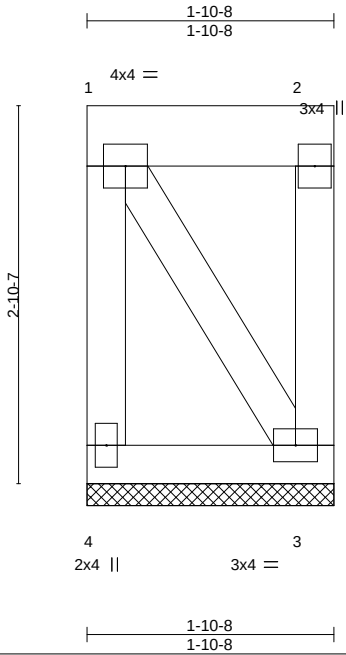
www.triarchitects.com



Scale = 1:17.5

SHOP DRAWING REVIEW

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS

☐ APPROVED
☐ FURNISH AS CORRECTED
☐ REJECTED. REVISE & RESUBMIT
☐ RETURNED NOT REVIEWED
☒ REVIEWED

REFER TO DEFINITIONS IN ATTACHED COMMENTARY

Bob D. Campbell & Co., Inc.
STRUCTURAL ENGINEERS

DATE: 06/26/2022 BY: CB

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 17 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-8, 3=1-10-8
Max Horz 4=-76(LC 9)
Max Uplift 4=-63(LC 7), 3=-63(LC 8)
Max Grav 4=91(LC 19), 3=91(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 4 and 63 lb uplift at joint 3.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

June 21,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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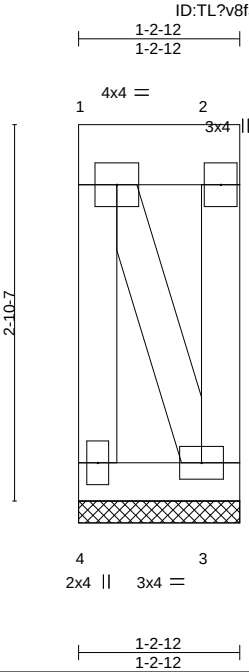
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

MAINTENANCE/POOL BUILDING ROOF

Job	Truss	Truss Type	Qty	Ply	PRYOR-POOL HOUSE
PRYOR-POOL_HOUSE	B2	Roof Special Supported Gable	1	1	I52662512
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 21 09:21:48 2022 Page 1
ID:TL?v8fSA0IE2YGnrl3PhALz4Qfs-hkuqO6gB?ZmvjmqbhIMSxdXGqMwKdeaHbVU3gEz45y1



Scale = 1:17.6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 14 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-2-12, 3=1-2-12
Max Horz 4=-76(LC 9)
Max Uplift 4=-103(LC 7), 3=-103(LC 8)
Max Grav 4=112(LC 10), 3=112(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4 and 103 lb uplift at joint 3.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

MAINTENANCE/POOL BUILDING ROOF

Job	Truss	Truss Type	Qty	Ply	PRYOR-POOL HOUSE
PRYOR-POOL_HOUSE	T1	Roof Special	11	1	I52662513
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 21 09:21:49 2022 Page 1
ID:TL?v8fSA0IE2YGnrl3PhALz4Qfs-9wSCbShpmtumLwPnF0thTq4LNm5pMz5Qq9DdCgz45y0

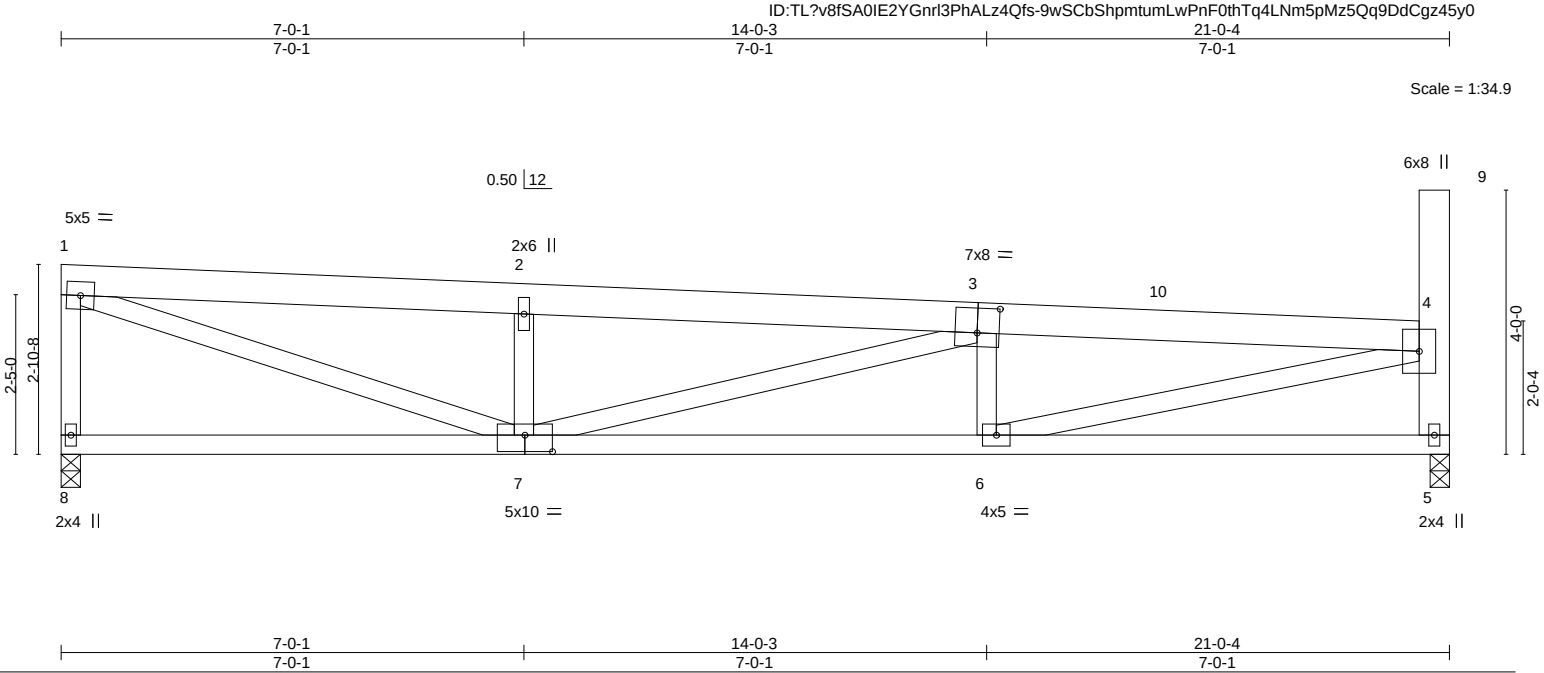

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [7:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.13	6-7	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.25	6-7	>975	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 126 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
5-9: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-10 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Horz 8=-186(LC 11)
Max Uplift 8=-55(LC 16), 5=-61(LC 12)
Max Grav 8=857(LC 32), 5=1071(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-792/243, 1-2=-1948/457, 2-3=-1944/444, 3-4=-2307/571, 4-5=-1001/240
BOT CHORD 6-7=-495/2314
WEBS 1-7=-511/2005, 2-7=-446/223, 3-7=-394/157, 3-6=-364/212, 4-6=-523/2108

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 3 degree rotation about its center.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8 and 61 lb uplift at joint 5.
6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-51-to-4=-131
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-43, 5-8=-20

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Continued on page 2

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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 3=-43-to-4=-103

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-27, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-27-to-4=-87

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-50-to-10=-73, 10=-67-to-4=-103

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-29-to-4=-109

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-59, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-59-to-10=-91, 10=-82-to-4=-131

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-38, 5-8=-20
Horz: 1-8=18, 1-4=5, 4-5=5, 4-9=37
Trapezoidal Loads (plf)
Vert: 3=-38-to-4=-98

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-31, 5-8=-20
Horz: 1-8=-5, 1-4=12, 4-5=-18, 4-9=-37
Trapezoidal Loads (plf)
Vert: 3=-31-to-4=-91

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-38, 5-8=-20
Horz: 1-8=14, 1-4=5, 4-5=3, 4-9=25
Trapezoidal Loads (plf)
Vert: 3=-38-to-4=-98

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-31, 5-8=-20
Horz: 1-8=-3, 1-4=12, 4-5=-14, 4-9=25
Trapezoidal Loads (plf)
Vert: 3=-31-to-4=-91

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 5-8=-20
Trapezoidal Loads (plf)
Vert: 3=-60-to-4=-140

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Chesterfield, MO 63017

MAINTENANCE/POOL BUILDING ROOF

Job	Truss	Truss Type	Qty	Ply	PRYOR-POOL HOUSE
PRYOR-POOL_HOUSE	T1GE	Roof Special Supported Gable	2	1	I52662514
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 21 09:21:50 2022 Page 1
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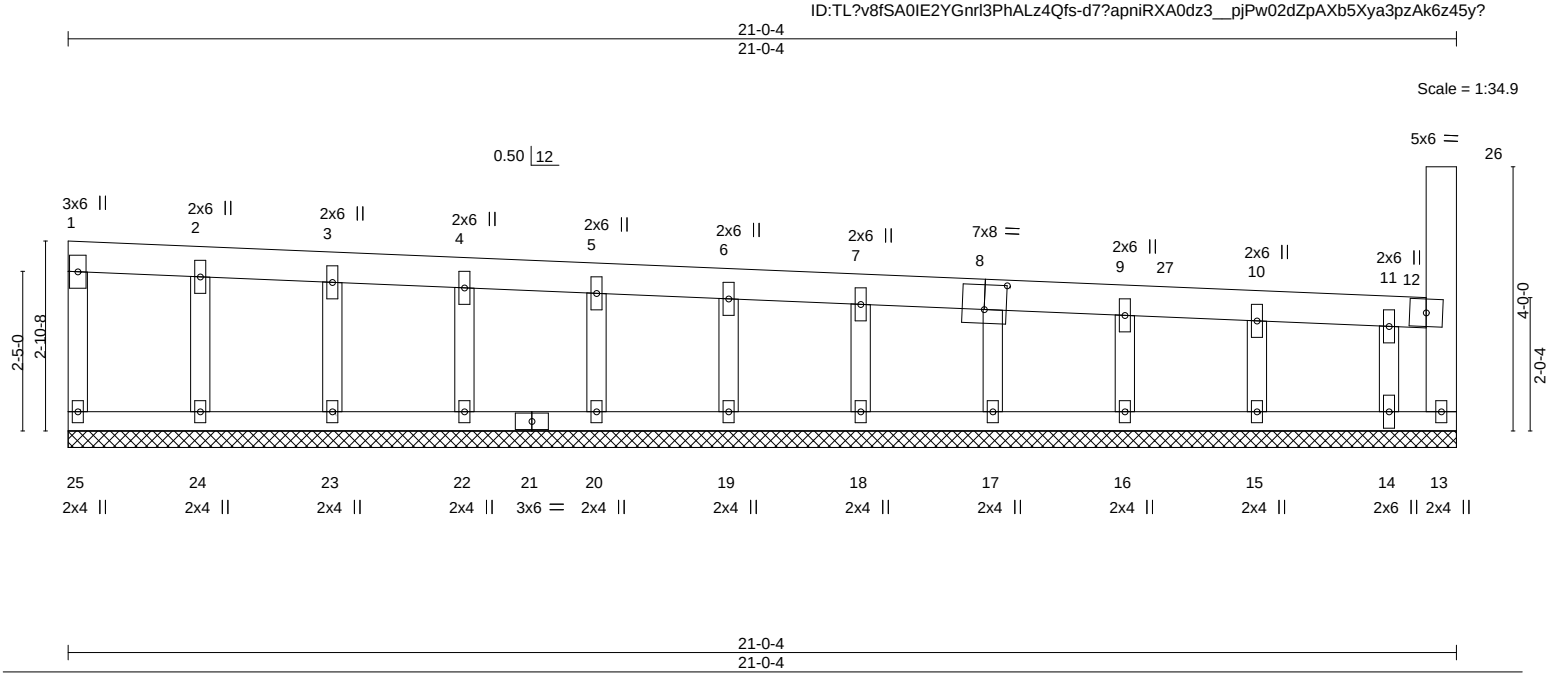

Plate Offsets (X,Y)-- [8:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.01	13	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 116 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 13-26: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 21-0-4.
(lb) - Max Horz 25=-186(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 25, 24, 23, 22, 20, 19, 18, 17, 16, 15 except 13=-375(LC 14), 14=-432(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 25, 24, 23, 22, 20, 19, 18, 17, 16 except 13=442(LC 11), 15=267(LC 32), 14=446(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-400/360
WEBS 11-14=-325/441

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 24, 23, 22, 20, 19, 18, 17, 16, 15 except (jt=lb) 13=375, 14=432.
10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-51, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-47-to-12=-131
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-43, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-41-to-12=-103
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-27, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-24-to-12=-87
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-50, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-47-to-27=-72, 27=-65-to-12=-103
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-29, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-26-to-12=-109
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-59, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-56-to-27=-89, 27=-80-to-12=-131
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-38, 13-25=-20
   Horz: 1-25=18, 1-12=5, 12-13=5, 12-26=37
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-12=-98
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-31, 13-25=-20
   Horz: 1-25=-5, 1-12=12, 12-13=-18, 12-26=-37
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-12=-91
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-38, 13-25=-20
   Horz: 1-25=14, 1-12=5, 12-13=3, 12-26=25
   Trapezoidal Loads (plf)
   Vert: 8=-36-to-12=-98
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-8=-31, 13-25=-20
   Horz: 1-25=-3, 1-12=12, 12-13=-14, 12-26=25
   Trapezoidal Loads (plf)
   Vert: 8=-28-to-12=-91
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-60, 13-25=-20
   Trapezoidal Loads (plf)
   Vert: 8=-57-to-12=-140

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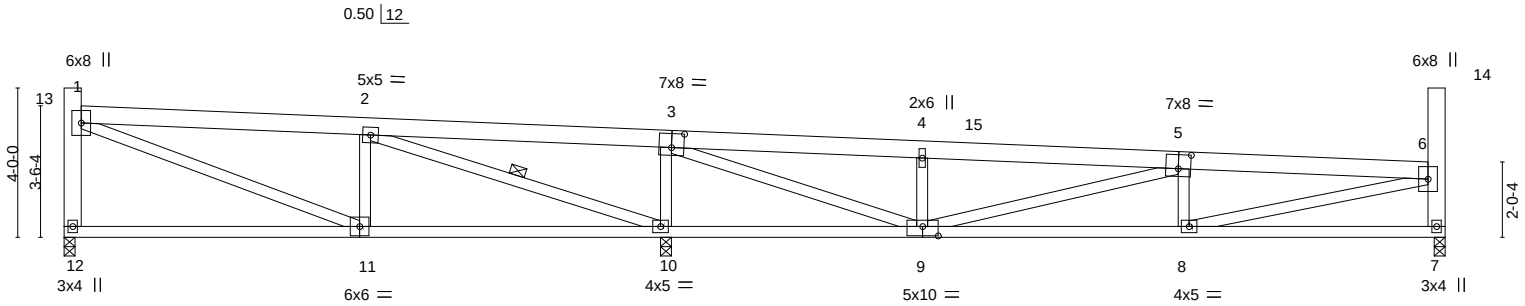
MAINTENANCE/POOL BUILDING ROOF

Job	Truss	Truss Type	Qty	Ply	PRYOR-POOL HOUSE
PRYOR-POOL_HOUSE	T2	Roof Special	9	1	I52662515
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jun 21 09:21:52 2022 Page 1
ID:TL?v8fSA0IE2YGnrl3PhALz4Qfs-ZV7LETjh3oGKCN7Mw8RO5Tirc_7PZGtsW7SHo?z45xz

8-0-12	16-1-8	22-11-14	29-11-15	37-0-0
8-0-12	8-0-12	6-10-6	7-0-1	7-0-1

Scale = 1:61.7



8-0-12	16-1-8	22-11-14	29-11-15	37-0-0
8-0-12	8-0-12	6-10-6	7-0-1	7-0-1

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [9:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.10	8-9	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.22	8-9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-SH							Weight: 223 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 12-13,7-14: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-6 oc bracing.
WEBS	1 Row at midpt 2-10

REACTIONS. (size) 12=0-3-8, 7=0-3-8, 10=0-3-8
Max Horz 12=-204(LC 11)
Max Uplift 12=-24(LC 16), 7=-46(LC 12), 10=-106(LC 16)
Max Grav 12=744(LC 22), 7=929(LC 32), 10=1874(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-12=-670/174, 1-2=-773/163, 2-3=-244/996, 3-4=-1019/329, 4-5=-1019/317, 5-6=-1827/500, 6-7=-860/198
BOT CHORD	11-12=-200/286, 10-11=-265/757, 9-10=-915/307, 8-9=-354/1826
WEBS	1-11=-202/691, 2-10=-1798/411, 3-10=-1121/379, 3-9=-469/2054, 4-9=-366/189, 5-9=-848/215, 6-8=-384/1635

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10; Min. flat roof snow load governs.
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7 except (jt=lb) 10=106.
7) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) Load case(s) 1, 4, 5, 6, 21, 22, 24, 25, 26, 27, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-5=-51, 7-12=-20
Trapezoidal Loads (plf)
Vert: 1=-131-to-2=-51, 5=-51-to-6=-131

June 21,2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-43, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-103-to-2=-43, 5=-43-to-6=-103
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-27, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-87-to-2=-27, 5=-27-to-6=-87
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-15=-52, 5-15=-43, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-112-to-2=-52, 5=-43-to-6=-103
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-29, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-109-to-2=-29, 5=-29-to-6=-109
22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-15=-63, 5-15=-51, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-143-to-2=-63, 5=-51-to-6=-131
24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-38, 7-12=-20
      Horz: 1-12=18, 1-13=37, 1-6=5, 6-7=5, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-2=-38, 5=-38-to-6=-98
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-31, 7-12=-20
      Horz: 1-12=-5, 1-13=-25, 1-6=12, 6-7=-18, 6-14=-37
   Trapezoidal Loads (plf)
      Vert: 1=-91-to-2=-31, 5=-31-to-6=-91
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-38, 7-12=-20
      Horz: 1-12=14, 1-13=-25, 1-6=5, 6-7=3, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-98-to-2=-38, 5=-38-to-6=-98
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
      Vert: 2-5=-31, 7-12=-20
      Horz: 1-12=-3, 1-13=-25, 1-6=12, 6-7=-14, 6-14=25
   Trapezoidal Loads (plf)
      Vert: 1=-91-to-2=-31, 5=-31-to-6=-91
32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 2-5=-60, 7-12=-20
   Trapezoidal Loads (plf)
      Vert: 1=-140-to-2=-60, 5=-60-to-6=-140

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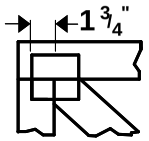
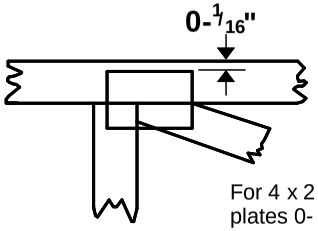
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

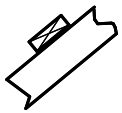
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

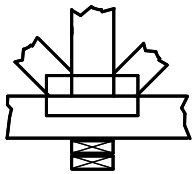
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

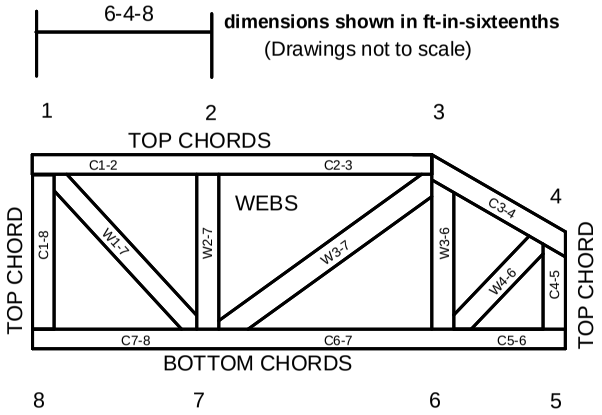


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MAINTENANCE/POOL BUILDING ROOF